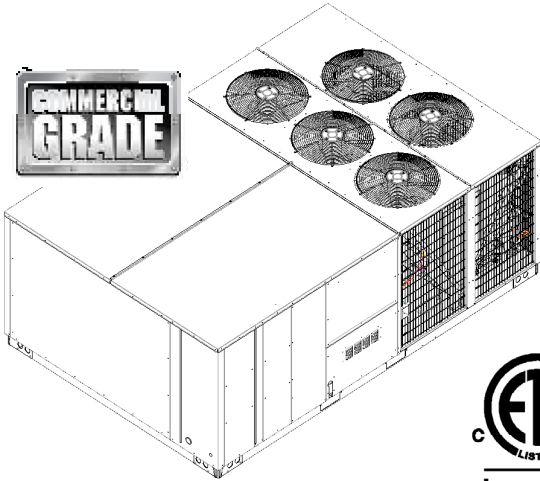


## DFC SERIES

### PACKAGED HEATING AND COOLING UNIT

15 to 25 Ton



**NOTE:** 25 ton model shown in picture.  
 20 ton model has 4 fans  
 15 ton model has 3 fans



**! RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION.**

These installation instructions cover the **outdoor** installation of single package heating and cooling units. See the Specification Sheet applicable to your model for information regarding accessories.

**\*NOTE:** Please contact your distributor or our website for the applicable Specification Sheet referred to in this manual.

**! WARNING**

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

**! WARNING**

DO NOT BYPASS SAFETY DEVICES

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**SAFETY INSTRUCTIONS**

**TO THE INSTALLER**


Before installing this unit, please read this manual to familiarize yourself on the specific items which must be adhered to, including maximum external static pressure to unit, air temperature rise and minimum or maximum CFM.

Keep this literature in a safe place for future reference.


|   |
|---|
|  <b>WARNING</b>  |
| TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT USE THIS UNIT IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE FURNACE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL HAVING BEEN UNDER WATER |

|   |
|---|
|  <b>CAUTION</b>  |
| SHEET METAL PARTS, SCREWS, CLIPS AND SIMILAR ITEMS INHERENTLY HAVE SHARP EDGES, AND IT IS NECESSARY THAT THE INSTALLER AND SERVICER PERSONNEL EXERCISE CAUTION. |

|   |
|---|
|  <b>WARNING</b>  |
| DO NOT CONNECT TO OR USE ANY DEVICE THAT IS NOT DESIGN CERTIFIED BY THE MANUFACTURER FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-APPROVED DEVICES. |

|  |
|--|
|  <b>WARNING</b>   |
| THIS UNIT MUST NOT BE USED AS A “CONSTRUCTION HEATER” DURING THE FINISHING PHASES OF CONSTRUCTION ON A NEW STRUCTURE. THIS TYPE OF USE MAY RESULT IN PREMATURE FAILURE OF THE UNIT DUE TO EXTREMELY LOW RETURN AIR TEMPERATURES AND EXPOSURE TO CORROSIVE OR VERY DIRTY ATMOSPHERES. |

|  |   |
|--|---|
|  <b>WARNING</b>   |   |
| <b>HIGH VOLTAGE</b><br>DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. |  |

|  |
|--|
|  <b>WARNING</b>   |
| TO PREVENT THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT STORE COMBUSTIBLE MATERIALS OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE. |

**REPLACEMENT PARTS**

**ORDERING PARTS**


When reporting shortages or damages, or ordering repair parts, give the complete unit model and serial numbers as stamped on the unit’s nameplate.

Replacement parts for this appliance are available through your contractor or local distributor. Your nearest distributor can be located online at [www.daikinac.com](http://www.daikinac.com) or by contacting:

EQUIPMENT SUPPORT  
DAIKIN NORTH AMERICA LLC  
19001 KERMIER ROAD  
WALLER, TEXAS 77484  
855-DAIKIN-1

**GENERAL INFORMATION**

*For complete information and installation instructions for models with DDC controls, see manual DK-DDC-TGD-XXX.*

|  |
|--|
|  <b>WARNING</b>   |
| TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO FIRE, EXPLOSIONS, SMOKE, SOOT, CONDENSATION, ELECTRIC SHOCK OR CARBON MONOXIDE, THIS UNIT MUST BE PROPERLY INSTALLED, REPAIRED, OPERATED AND MAINTAINED. |

*This unit is approved for outdoor installation ONLY.* Rated performance is achieved after 20 hours of operation. Rated performance is delivered at the specified airflow. See outdoor unit specification sheet for split system models or product specification sheet for packaged and light commercial models. Specification sheets can be found at [www.daikinac.com](http://www.daikinac.com) for Daikin brand products. Within the website, please select the residential or commercial products menu and then select the submenu for the type of product to be installed, such as air conditioners or heat pumps, to access a list of product pages that each contain links to that model’s specification sheet.

To assure that your unit operates safely and efficiently, it must be installed, operated, and maintained in accordance with these installation and operating instructions, all local building codes and ordinances.

## EPA REGULATIONS

**IMPORTANT: THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS ISSUED VARIOUS REGULATIONS REGARDING THE INTRODUCTION AND DISPOSAL OF REFRIGERANTS IN THIS UNIT. FAILURE TO FOLLOW THESE REGULATIONS MAY HARM THE ENVIRONMENT AND CAN LEAD TO THE IMPOSITION OF SUBSTANTIAL FINES. BECAUSE REGULATIONS MAY VARY DUE TO PASSAGE OF NEW LAWS, WE SUGGEST A CERTIFIED TECHNICIAN PERFORM ANY WORK DONE ON THIS UNIT. SHOULD YOU HAVE ANY QUESTIONS PLEASE CONTACT THE LOCAL OFFICE OF THE EPA.**

## NATIONAL CODES

This product is designed and manufactured to permit installation in accordance with National Codes. It is the installer's responsibility to install the product in accordance with National Codes and/or prevailing local codes and regulations.

The heating and cooling capacities of the unit should be greater than or equal to the design heating and cooling loads of the area to be conditioned. The loads should be calculated by an approved method or in accordance with ASHRAE Guide or Manual J - Load Calculations published by the Air Conditioning Contractors of America.

Obtain from:

American National Standards Institute  
25 West 43rd Street, 4th Floor  
New York, NY 10036

System design and installation should also, where applicable, follow information presented in accepted industry guides such as the ASHRAE Handbooks. The manufacturer assumes no responsibility for equipment installed in violation of any code or regulation. The mechanical installation of the packaged roof top units consists of making final connections between the unit and building services; supply and return duct connections; and drain connections (if required). The internal systems of the unit are completely factory-installed and tested prior to shipment.

Units are generally installed on a steel roof mounting curb assembly which has been shipped to the job site for installation on the roof structure prior to the arrival of the unit. The model number shown on the unit's identification plate identifies the various components of the unit such as refrigeration tonnage, heating input and voltage. Verify that the Voltage listed on the unit id plate matches the voltage supplied from the site.

Carefully inspect the unit for damage including damage to the cabinetry. Any bolts or screws which may have loosened in transit must be re-tightened. In the event of damage, the receiver should:

1. Make notation on delivery receipt of any visible damage to shipment or container.
2. Notify carrier promptly and request an inspection.
3. In case of concealed damage, carrier should be notified as soon as possible-preferably within 5 days.
4. File the claim with the following supporting documents:
  - a. Original Bill of Lading, certified copy, or indemnity bond.
  - b. Original paid freight bill or indemnity in lieu thereof.

- c. Original invoice or certified copy thereof, showing trade and other discounts or reductions.
- d. Copy of the inspection report issued by the carrier representative at the time damage is reported to the carrier. The carrier is responsible for making prompt inspection of damage and for a thorough investigation of each claim. The distributor or manufacturer will not accept claims from dealers for transportation damage.

**NOTE:** When inspecting the unit for transportation damage, remove all packaging materials. Recycle or dispose of the packaging material according to local codes.

## PRE-INSTALLATION CHECKS

Carefully read all instructions for the installation prior to installing unit. Ensure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally.

## UNIT LOCATION

|  |
|--|
|  <b>WARNING</b>   |
| <b>TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING MUST BE OBSERVED WHEN INSTALLING THE UNIT.</b> |

**IMPORTANT NOTE:** Remove wood shipping rails prior to installation of the unit. *See important note under Roof Curb Installation Only.*

## ALL INSTALLATIONS:

**IMPORTANT NOTE:** *Unit should be energized 24 hours prior to compressor start up to ensure crankcase heater has sufficiently warmed the compressors. Compressor damage may occur if this step is not followed.*

**NOTE:** Units are vertical supply and return only.

Proper installation of the unit ensures trouble-free operation. Improper installation can result in problems ranging from noisy operation to property or equipment damages, dangerous conditions that could result in injury or personal property damage. Damage or repairs due to improper installation are not covered under the warranty. Give this booklet to the user and explain it's provisions. The user should retain these instructions for future reference.

- For proper operation and condensate drainage, the unit must be mounted level.
- The flue outlet hood must be at least three feet above any forced air inlet located within ten feet. The economizer/manual fresh air intake/motorized fresh air intake and combustion air inlet mounted on the unit are not affected by this restriction.
- Do not locate the unit in an area where the outdoor air (i.e. combustion air for the unit) will be frequently contaminated by compounds containing chlorine or fluorine. Common sources of such compounds include swimming pool chemicals and chlorine bleaches, paint stripper, adhesives, paints, varnishes, sealers, waxes (which are not yet dried) and solvents used during

construction and remodeling. Various commercial and industrial processes may also be sources of chlorine/fluorine compounds.

- To avoid possible illness or death of the building occupants, do NOT locate outside air intake device (economizer, manual fresh air intake, motorized fresh air intake) too close to an exhaust outlet, gas vent termination, or plumbing vent outlet. For specific distances required, consult local codes or in their absence, with the latest edition of the National Fuel Gas Code latest edition of the National Fuel Gas Code NFPA54/ANSI Z223.1 and National Standard of Canada CAN/CSA B149 Installation Codes.
- Allow minimum clearances from the enclosure for fire protection, proper operation, and service access (see unit clearances). These clearances must be permanently maintained.
- If used, do not allow the economizer/manual fresh air damper/ motorized fresh air damper to become blocked by snow or debris. In some climates or locations, it may be necessary to elevate the unit to avoid these problems. For proper operation and condensate drainage, the unit must be mounted level
- When the unit is heating, the temperature of the return air entering the unit must be between 50° F and 100° F.

#### GROUND LEVEL INSTALLATIONS ONLY:

- When the unit is installed on the ground adjacent to the building, a level concrete (or equal) base is recommended. Prepare a base that is 3" larger than the package unit footprint and a minimum of 3" thick.
- The base should also be located where no runoff of water from higher ground can collect in the unit.

#### ROOF TOP INSTALLATIONS ONLY:

- To avoid possible property damage or personal injury, the roof must have sufficient structural strength to carry the weight of the unit(s) and snow or water loads as required by local codes. Consult a structural engineer to determine the weight capabilities of the roof.
- The unit may be installed directly on wood floors or on Class A, Class B, or Class C roof covering material.
- To avoid possible personal injury, a safe, flat surface for service personnel should be provided.
- As indicated on the unit data plate, a minimum clearance of 36" to any combustible material is required on the furnace access side of the unit. All combustible materials must be kept out of this area.
- This 36" clearance must also be maintained to insure proper combustion air and flue gas flow. The combustion air intake and furnace flue discharge must not be blocked for any reason, including blockage by snow.
- Adequate clearances from the unit to any adjacent public walkways, adjacent buildings, building openings or openable windows must be maintained in accordance with national codes. National Fuel Gas Code NFPA54/ANSI Z223.1 and National Standard of Canada CAN/CSA B149 Installation Codes.

#### UNIT PRECAUTIONS

- Do not stand or walk on the unit.
- Do not drill holes anywhere in panels or in the base frame of the unit (except where indicated). Unit access panels provide structural support.
- Do not remove any access panels until unit has been installed on roof curb or field supplied structure.
- Do not roll unit across finished roof without prior approval of owner or architect.
- Do not skid or slide on any surface as this may damage unit base. The unit must be stored on a flat, level surface. Protect the condenser coil because it is easily damaged.

#### ROOF CURB INSTALLATIONS ONLY:

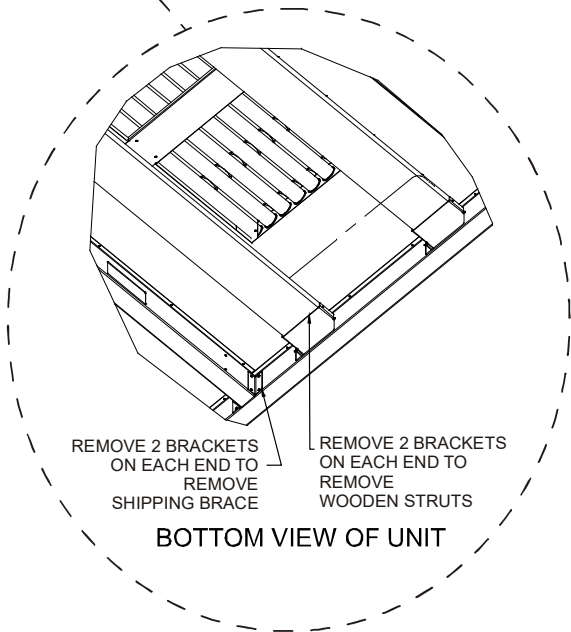
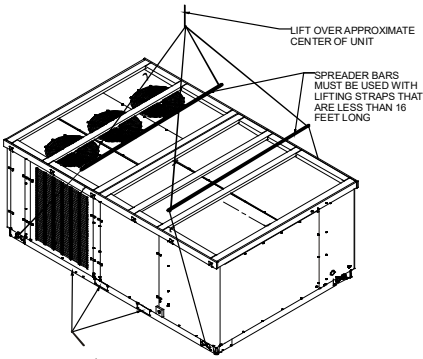
##### *Before installing this unit...*

IMPORTANT NOTE: This unit has been equipped with a shipping brace under the compressor section that **MUST BE REMOVED** before installing the unit on a roof curb.

*Please follow the instructions below to remove brace.*

|   |
|---|
|  <b>CAUTION</b>  |
| <b>WHEN UNIT IS SUSPENDED, BOARDS AND SHIPPING BRACE WILL DROP WHEN SCREWS ARE REMOVED. TO PREVENT PERSONAL INJURY, STAND CLEAR. REMOVE FORK HOLE BRACKETS, BOARDS AND SHIPPING BRACE FROM BOTTOM OF UNIT BEFORE PLACING UNITS ONTO CURB.</b> |

1. Remove wooden struts and shipping brace per installation instructions. *The struts are located in the fork holes and are used to protect the unit from damage while lifting with forks. The shipping brace is located under the unit (under compressor).* Also remove the fork hole brackets as shown in the following figure.
2. Locate and remove the end brackets as shown in the following figure.



3. Lift unit per the "Rigging Details" section of this manual, observing all warnings and cautions. When unit is lifted, boards and shipping brace will drop if screws have been removed. To avoid injury, STAND CLEAR.
4. Dispose of the boards and brace appropriately.

Curb installations must comply with local codes and should be done in accordance with the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. Field assembly, squaring, leveling and mounting on the roof structure are the responsibility of the installing contractor. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory.

**! WARNING**

**TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.**

- Sufficient structural support must be determined prior to locating and mounting the curb and package unit.
- Ductwork must be constructed using industry guidelines. The duct work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered type curbs are not available from the factory.
- Curb insulation, cant strips, flashing and general roofing material are furnished by the contractor.

The curbs must be supported on parallel sides by roof members. The roof members must not penetrate supply and return duct opening areas as damage to the unit might occur.

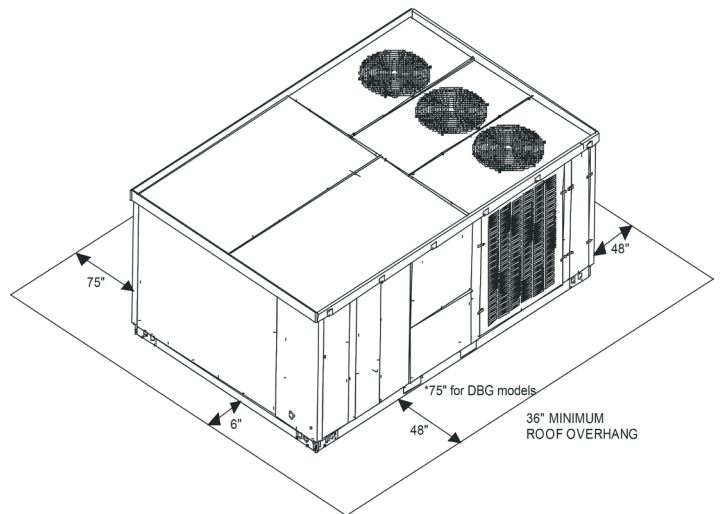
**NOTE:** The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

**! CAUTION**

**ALL CURBS LOOK SIMILAR. TO AVOID INCORRECT CURB POSITIONING, CHECK JOB PLANS CAREFULLY AND VERIFY MARKINGS ON CURB ASSEMBLY. INSTRUCTIONS MAY VARY IN CURB STYLES AND SUPERCEDE INFORMATION SHOWN.**

See the manual shipped with the roof curb for assembly and installation instructions.

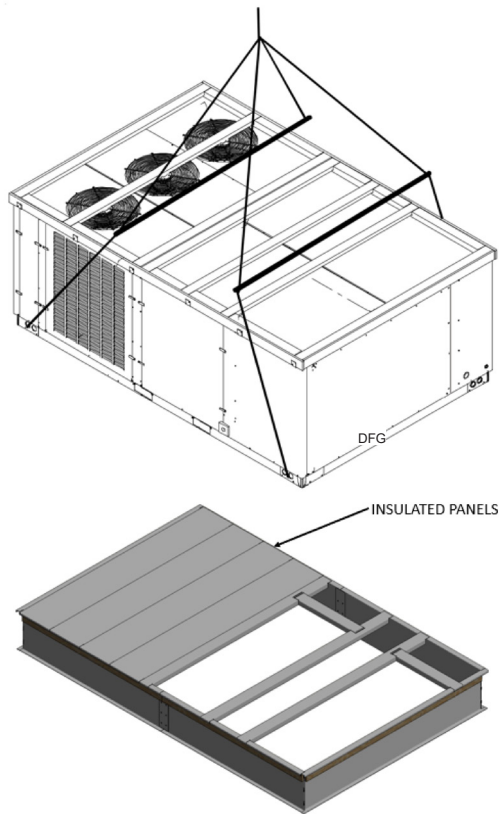
### CLEARANCES



*\*In situations that have multiple units, a 48" minimum clearance is required between the condenser coils.*

### UNIT CLEARANCES

Adequate clearance around the unit should be kept for safety, service, maintenance, and proper unit operation. A 75" clearance on the non-service side of the unit is required to facilitate possible blower assembly, shaft, wheel replacement and coil removal. \*DFG ONLY - A 75" clearance on the service is required for removal of the gas heat exchanger. This unit must not be installed beneath any obstruction. This unit should be installed remote from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh air intake.



### ROOF CURB INSTALLATION

### ROOF CURB POST-INSTALLATION CHECKS

After installation, check the top of the curb, duct connection frame and duct flanges to make sure gasket has been applied properly. Gasket should be firmly applied to the top of the curb perimeter, duct flanges and any exposed duct connection frame. If gasket is loose, re-apply using strong weather resistant adhesive.

#### PROTRUSION

Inspect curb to ensure that none of the utility services (electric) routed through the curb protrude above the curb.


|  |
|--|
|  <b>CAUTION</b> |
| <p>IF PROTRUSIONS EXIST, DO NOT ATTEMPT TO SET UNIT ON CURB. INFORMATION SHOWN.</p>                |


### ROOF TOP DUCT CONNECTIONS

Install duct connections on the roof curb before placing the unit on the rooftop.


**NOTE:** If duct is to be fasten to the roof curb the fasteners need to be installed horizontally to allow the unit to be set flat on the curb.

### RIGGING DETAILS

|  |
|--|
|  <b>WARNING</b>   |
| <p>TO PREVENT PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING WHEN A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.</p> |

|  |
|--|
|  <b>CAUTION</b>   |
| <p>DO NOT LIFT UNITS TWO AT A TIME. PROVISIONS FOR FORKS HAVE BEEN INCLUDED IN THE UNIT BASE FRAM. MINIMUM FORK LENGTH IS 72" TO PREVENT DAMAGE TO THE UNIT.</p> |

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

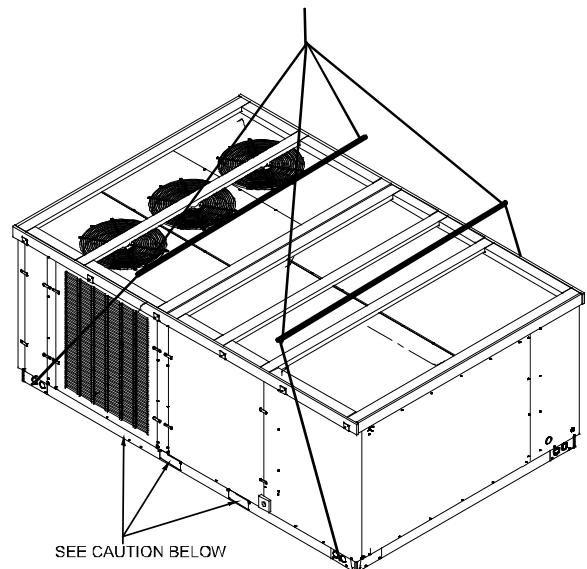
|  |
|--|
|  <b>WARNING</b>   |
| <p>TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.</p> |

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. Removal is accomplished by extracting the sheet metal retainers and pulling the struts through the base of the unit. Refer to rigging label on the unit.

**Important:** If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit. Ductwork dimensions are shown in Roof Curb Installation Instructions.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging unit, center of gravity will cause condenser end to be lower than supply air end.

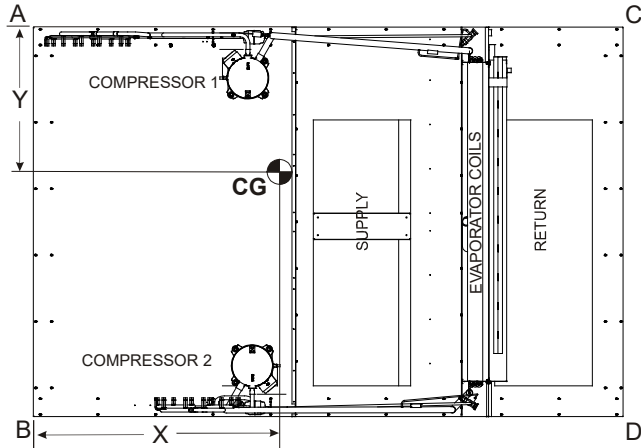




### CAUTION

WHEN UNIT IS SUSPENDED, BOARDS AND SHIPPING BRACE WILL DROP WHEN SCREWS ARE REMOVED. TO PREVENT PERSONAL INJURY, STAND CLEAR. REMOVE FORK HOLE BRACKETS, BOARDS AND SHIPPING BRACE FROM BOTTOM OF UNIT BEFORE PLACING UNITS ONTO CURB.

To assist in determining rigging requirements, unit weights are shown as follows:



CORNER & CENTER OF GRAVITY LOCATIONS

| DATA                  | DFC Weights (lbs) |       |       |
|-----------------------|-------------------|-------|-------|
|                       | 15T               | 20T   | 25T   |
| Corner Weight - A     | 486               | 580   | 446   |
| Corner Weight - B     | 410               | 380   | 499   |
| Corner Weight - C     | 395               | 437   | 621   |
| Corner Weight - D     | 433               | 596   | 517   |
| Unit Shipping Weight  | 1839              | 2108  | 2198  |
| Unit Operating Weight | 1724              | 1993  | 2083  |
| X (Inches)            | 69.31             | 64.23 | 60.50 |
| Y (Inches)            | 43.09             | 43.15 | 42.98 |

**NOTE:** These weights are without accessories installed.



### CAUTION

TO PREVENT SEVERE DAMAGE TO THE BOTTOM OF THE UNIT, DO NOT FORK LIFT UNIT AFTER WOOD STRUTS HAVE BEEN REMOVED.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, care should be taken to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

### RIGGING REMOVAL



### CAUTION

TO PREVENT DAMAGE TO THE UNIT, DO NOT ALLOW CRANE HOOKS AND SPREADER BARS TO REST ON THE ROOF OF THE UNIT.

Remove spreader bars, lifting cables and other rigging equipment.

### ELECTRICAL WIRING



### WARNING

#### HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



### WARNING

#### HIGH VOLTAGE

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DO NOT TAMPER WITH FACTORY WIRING. THE INTERNAL POWER AND CONTROL WIRING OF THESE UNITS ARE FACTORY-INSTALLED AND HAVE BEEN THOROUGHLY TESTED PRIOR TO SHIPMENT. CONTACT YOUR LOCAL REPRESENTATIVE IF ASSISTANCE IS REQUIRED.



### CAUTION

TO PREVENT DAMAGE TO THE WIRING, PROTECT WIRING FROM SHARP EDGES. FOLLOW NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES. DO NOT ROUTE WIRES THROUGH REMOVABLE ACCESS PANELS.



### CAUTION

CONDUIT AND FITTINGS MUST BE WEATHER-TIGHT TO PREVENT WATER ENTRY INTO THE BUILDING.

For unit protection, use a fuse or HACR circuit breaker that is in excess of the circuit ampacity, but less than or equal to the maximum overcurrent protection device. DO NOT EXCEED THE MAXIMUM OVERCURRENT DEVICE SIZE SHOWN ON UNIT DATA PLATE.

All line voltage connections must be made through weatherproof fittings. All exterior power supply and ground wiring must be in approved weatherproof conduit.

The main power supply wiring to the unit and low voltage wiring to accessory controls must be done in accordance with these instructions, the latest edition of the National Electrical Code (ANSI/NFPA 70), and all local codes and ordinances.

The main power supply shall be three-phase, three wire. The unit is factory wired for the voltage shown on the unit's data plate.

**NOTE:** If supply voltage is 208V, all leads on primary of transformer(s) must be moved from the 230V to the 208V tap.

Main power wiring should be sized for the minimum circuit ampacity shown on the unit's data plate. Size wires in accordance with the ampacity tables in Article 310 of the National Electrical Code. If long wires are required, it may be necessary to increase the wire size to prevent excessive voltage drop. Wires should be sized for a maximum of 3% voltage drop.



## CAUTION

**TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY DUE TO FIRE, USE ONLY COPPER CONDUCTORS.**



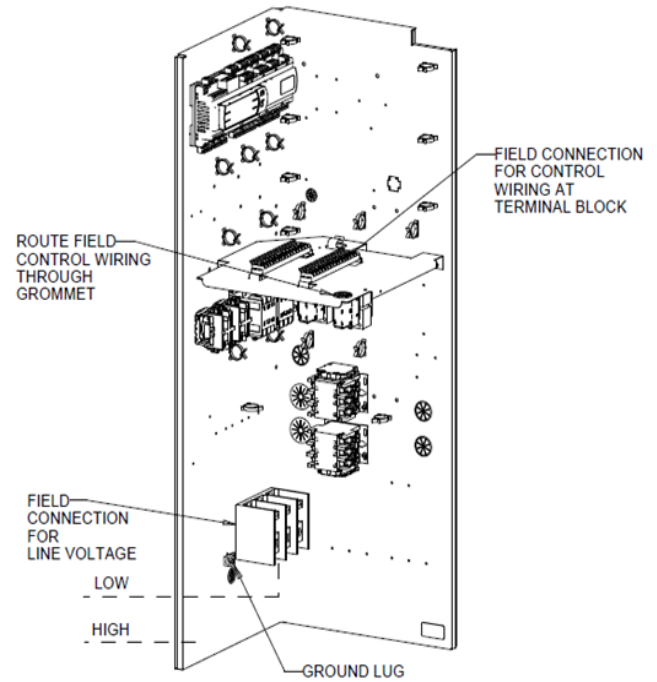
## CAUTION

**TO PREVENT IMPROPER AND DANGEROUS OPERATION DUE TO WIRING ERRORS, LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. VERIFY PROPER OPERATION AFTER SERVICING.**

**NOTE:** A weather-tight disconnect switch, properly sized for the unit total load must be installed. An external field supplied disconnect may be mounted on the exterior panel.

Ensure the data plate is not covered by the field-supplied disconnect switch.

- Some disconnect switches are not fused. Protect the power leads at the point of distribution in accordance with the unit data plate.
- The unit must be electrically grounded in accordance with local codes or, in the absence of local codes, with the latest edition of the National Electrical Code (ANSI-NFPA 70). A ground lug is provided for this purpose. Size grounding conductor in accordance with Table 250-95 of the National Electrical Code. Do not use the ground lug for connecting a neutral conductor.
- Connect power wiring to the middle contactor within the main control box or power block, if equipped.



### 15-25 TON DDC POWER AND LOW VOLTAGE TERMINAL LOCATIONS

**NOTE:** Depending on the options installed, the location of the components may vary in some models.



## WARNING

**FAILURE OF UNIT DUE TO OPERATION ON IMPROPER LINE VOLTAGE OR WITH EXCESSIVE PHASE UNBALANCE CONSTITUTES PRODUCT ABUSE AND IS NOT COVERED BY THE WARRANTY. IT MAY CAUSE SEVERE DAMAGE TO THE UNIT ELECTRICAL COMPONENTS.**

### AREAS WITHOUT CONVENIENCE OUTLET

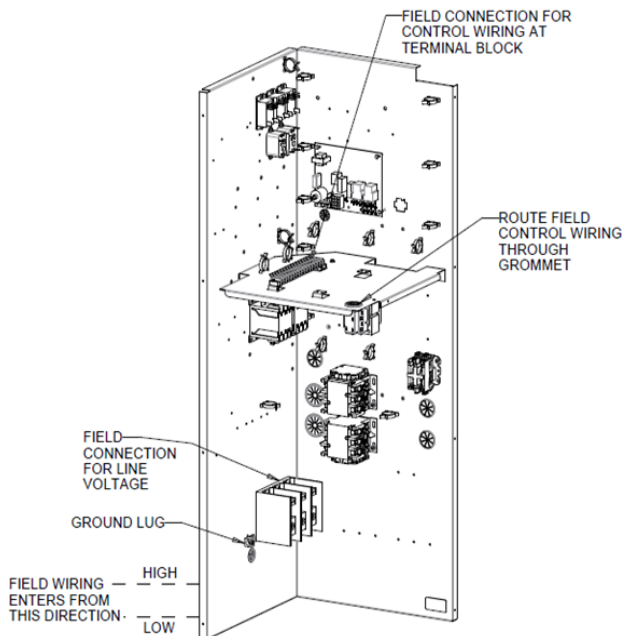
It is recommended that an independent 115V power source be brought to the vicinity of the roof top unit for portable lights and tools used by the service mechanic.

**NOTE:** Refer to local codes for requirements. These outlets can also be factory installed.

### UNITS INSTALLED ON ROOF TOPS

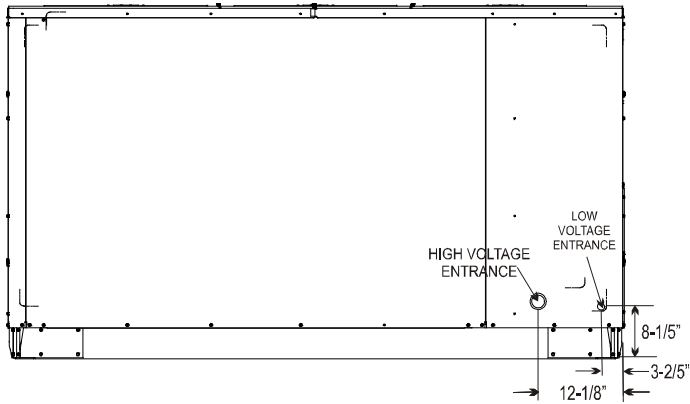
Main power and low voltage wiring may enter the unit through the side or through the roof curb. Install conduit connectors at the desired entrance locations. External connectors must be weatherproof. All holes in the unit base must be sealed (including those around conduit nuts) to prevent water leakage into building. All required conduit and fittings are to be field supplied. For wiring and/or gas connections entering through roof curb, the through the base kit would be required (TTBCK03).

Supply voltage to roof top unit must not vary by more than 10% of the value indicated on the unit data plate. Phase voltage unbalance must not exceed 2%. Contact your local power company for correction of improper voltage or phase unbalance.



### 15-25 TON TSTAT POWER AND LOW VOLTAGE TERMINAL LOCATIONS





### ELECTRICAL ENTRANCE LOCATIONS

Unit is equipped with a Low Voltage Terminal Block and has Single Point wiring to the contactor.

### LOW VOLTAGE CONTROL WIRING

NOTE: For models equipped with the DDC controls option, refer to the supplemental DDC literature supplied with the unit for additional information.

1. A 24V thermostat must be installed for unit operation. It may be purchased with the unit or field -supplied. Thermostats may be programmable or electromechanical as required.
2. Locate thermostat or remote sensor in the conditioned space where it will sense average temperature. Do not locate the device where it may be directly exposed to supply air, sunlight or other sources of heat. Follow installation instructions packaged with the thermostat.
3. Use #18 AWG wire for 24V control wiring runs not exceeding 75 feet. Use #16 AWG wire for 24V control wiring runs not exceeding 125 feet. Use #14 AWG wire for 24V control wiring runs not exceeding 200 feet. Low voltage wiring may be National Electrical Code (NEC) Class 2 where permitted by local codes.
4. Route thermostat wires from sub-base terminals to the unit. Control wiring should enter through the duct panel (dimple marks entrance location) or through the specified through the base connection points through the base pan. Connect thermostat and any accessory wiring to low voltage terminal block TB1 in the main control box.

**NOTE:** Field-supplied conduit may need to be installed depending on unit/curb configuration. Use #18 AWG solid conductor wire whenever connecting thermostat wires to terminals on sub-base. DO NOT use larger than #18 AWG wire. A transition to #18 AWG wire may be required before entering thermostat sub-base.

**NOTE:** Refer to unit wiring diagrams for thermostat hookups.

### CIRCULATING AIR AND FILTERS

#### DUCTWORK

The supply duct from the unit through a wall may be installed without clearance. However, minimum unit clearances must be maintained (see "Clearances" section). The supply duct should

be provided with an access panel large enough to inspect the air chamber downstream of the heat exchanger. A cover should be tightly attached to prevent air leaks.

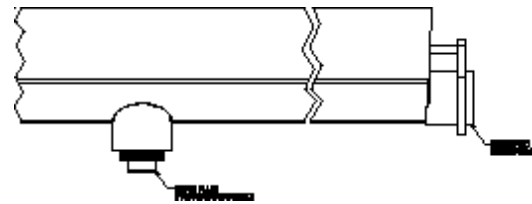
Ductwork dimensions are shown in the roof curb installation manual.

If desired, supply and return duct connections to the unit may be made with flexible connections to reduce possible unit operating sound transmission.

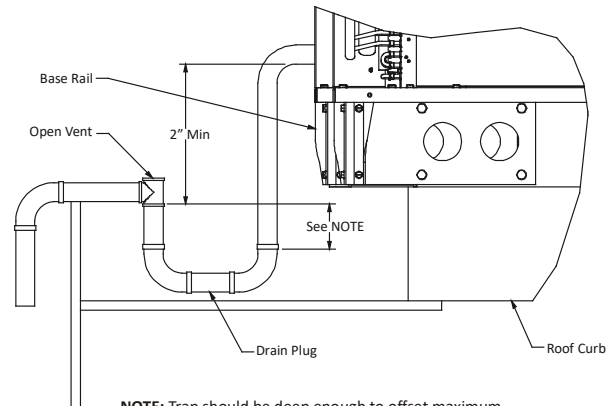
### CONDENSATE DRAIN CONNECTION

#### CONDENSATE DRAIN CONNECTION

A 1" female NPT drain connection is supplied on the end of the condensate pan, with an alternative connection on the bottom of the pan. An external trap must be installed for proper condensate drainage.



Drain Pan (Side View)



**NOTE:** Trap should be deep enough to offset maximum unit static difference. A minimum 4" trap is recommended.

#### DRAIN CONNECTION

Install condensate drain trap as shown. Use 1" drain line and fittings or larger. Do not operate without trap. NOTE: All threaded connection use pipe sealer.

#### HORIZONTAL DRAIN



Drainage of condensate directly onto the roof may be acceptable; (refer to local code). It is recommended that a small drip pad of either stone, mortar, wood or metal be provided to prevent any possible damage to the roof. When using the horizontal drain connection, check the drain plug in bottom connection to ensure it is tight.

#### CLEANING


Due to the fact that drain pans in any air conditioning unit will have some moisture in them, algae and fungus will grow due to

airborne bacteria and spores. Periodic cleaning is necessary to prevent this build-up from plugging the drain.

## STARTUP, ADJUSTMENTS, AND CHECKS

|   |
|---|
|  <b>WARNING</b>  |
| <b>HIGH VOLTAGE</b><br>TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, BOND THE FRAME OF THIS UNIT TO THE BUILDING ELECTRICAL GROUND BY USE OF THE GROUNDING TERMINAL PROVIDED OR OTHER ACCEPTABLE MEANS. DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. |
|    |

|   |
|---|
|  <b>CAUTION</b>                                  |
| TO PREVENT PROPERTY DAMAGE OR PERSONAL INJURY, Do NOT START THE UNIT UNTIL ALL NECESSARY PRE-CHECKS AND TEST HAVE BEEN PERFORMED. |

|  |
|--|
|  <b>WARNING</b>   |
| <b>MOVING MACHINERY HAZARD!</b><br>TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH, DISCONNECT POWER TO THE UNIT AND PADLOCK IN THE "OFF" POSITION BEFORE SERVICING FANS. |

### HEATING STARTUP

On new installations, or if a major component has been replaced, the operation of the unit must be checked.

Check unit operation as outlined in the following instructions. If any sparking, odors, or unusual sounds are encountered, shut off electrical power and recheck for wiring errors, or obstructions in or near the blower motors.

The Startup, Adjustments, and Checks procedure provides a step-by-step sequence which, if followed, will assure the proper startup of the equipment in the minimum amount of time. Air balancing of duct system is not considered part of this procedure. However, it is an important phase of any air conditioning system startup and should be performed upon completion of the Startup, Adjustments, and Checks procedure. The Startup, Adjustments, and Checks procedure at outside ambients below 55°F should be limited to a readiness check of the refrigeration system with the required final check and calibration left to be completed when the outside ambient rises above 55°F.

### TEMPORARY HEATING OR COOLING

If the unit is to be used for temporary heating or cooling, a "Startup, Adjustments, and Checks" must first be performed in accordance with this manual. Damage or repairs due to failure to comply with these requirements are not covered under the warranty. **After** the machines are used for temporary heating or cooling, inspect the coils, fans, and motors for unacceptable levels of construction dust and dirt and install new filters.

## CONTRACTOR RESPONSIBILITY

The installing contractor must be certain that:

- All supply and return air ductwork is in place, properly sealed, and corresponds with installation instructions.
- All thermostats are mounted and wired in accordance with installation instructions.
- All electric power, all gas, hot water or steam line connections, and the condensate drain installation have been made to each unit on the job. These main supply lines must be functional and capable of operating all units simultaneously.
- Clean Air filters are in place.

### ROOF CURB INSTALLATION CHECK

Inspect the roof curb for correct installation. The unit and curb assembly should be level. Inspect the flashing of the roof mounting curb to the roof, especially at the corners, for good workmanship. Also check for leaks around gaskets. Note any deficiencies in a separate report and forward to the contractor.

### OBSTRUCTIONS, FAN CLEARANCE AND WIRING

Remove any extraneous construction and shipping materials that may be found during this procedure. Rotate all fans manually to check for proper clearances and that they rotate freely. Check for bolts and screws that may have jarred loose during shipment to the job site. Retighten if necessary. Re-tighten all electrical connections.

### FIELD DUCT CONNECTIONS

Verify that all duct connections are tight and that there is no air bypass between supply and return.

### FILTER SECTION CHECK

Remove filter section access panels and check that filters are properly installed. Note airflow arrows on filter frames.

### PRE-STARTUP PRECAUTIONS

It is important to your safety that the unit has been properly grounded during installation. Check ground lug connection in main control box for tightness prior to closing circuit breaker or disconnect switch. Verify that supply voltage on line side of disconnect agrees with voltage on unit identification plate and is within the utilization voltage range as indicated in Appendix C Electrical Data.

**System Voltage** - That nominal voltage value assigned to a circuit or system for the purpose of designating its voltage class.

**Nameplate Voltage** - That voltage assigned to a piece of equipment for the purpose of designating its voltage class and for the purpose of defining the minimum and maximum voltage at which the equipment will operate.

**Utilization Voltage** - The voltage of the line terminals of the equipment at which the equipment must give fully satisfactory performance. Once it is established that supply voltage will be maintained within the utilization range under all system conditions, check and calculate if an unbalanced condition exists between phases. Calculate percent voltage unbalance as follows:

### Three Phase Models

$$3) \text{ PERCENT VOLTAGE UNBALANCE} = 100 \times \frac{2) \text{ MAXIMUM VOLTAGE DEVIATIONS FROM AVERAGE VOLTAGE}}{1) \text{ AVERAGE VOLTAGE}}$$

HOW TO USE THE FORMULA:

EXAMPLE: With voltage of 220, 216, and 213

1) Average Voltage =  $220+216+213=649 / 3 = 216$

2) Maximum Voltage Deviations from Average Voltage =  $220 - 216 = 4$

3) Percent Voltage Unbalance =  $100 \times \frac{4}{216} = \frac{400}{216} = 1.8\%$

Percent voltage unbalance MUST NOT exceed 2%.

**Note:** On units with DDC controls installed, air flow adjustments are made through settings in the DDC controller and speed tap adjustments are not required. Refer to the DDC User Manual for details on making airflow adjustments. Individual settings are available for Fan Only, Low Stage Cooling, High Stage Cooling, Low Stage Heating, and High Stage Heating which can be adjusted as needed to meet airflow requirements.

### AIR FLOW ADJUSTMENTS

When the final adjustments are complete, the current draw of the motor should be checked and compared to the full load current rating of the motor. The amperage must not exceed the service factor stamped on the motor nameplate. The total airflow must not be less than that required for operation of the electric heaters or the furnace.

If an economizer is installed, check the unit operating balance with the economizer at full outside air and at minimum outside air.

**NOTE:** High Stage Airflow setting below 300 CFM/Ton is not recommended, as evaporator freezing or poor unit performance is possible.

- The unit has one set of taps for cooling (T1-T5) and a second set of taps for heating (T6-T10).
- When Heat is called TB1-W1 will also call TB1-DH activating the second set of taps T6-T10.
- If cooling and heating is called at the same time heating will take priority and T6-T10 will be chosen by default.
- Taps T1 and T2 are for low cool operation (cooling stage 1) and Taps T3 to T5 are for high cool operation (cooling stage 2).
- Taps T6 and T7 are for low heat operation (heating stage 1) and taps T8 to T10 are for high heat operation (heating stage 2).

Taps are selected by changing the position of the low voltage leads on the terminal block TB1. Refer to Appendix A for blower performance at each speed tap.

Fan speed for G (GR) is fixed at TB1-T1 and cannot be moved.

Low Cool Y1, Yellow (YL) is movable and set to TB1-T1.

Low Heat W1, White (WH) is movable and set to TB1-T6.

High Cool Y2, Purple (PU) is movable and set to TB1-T3.

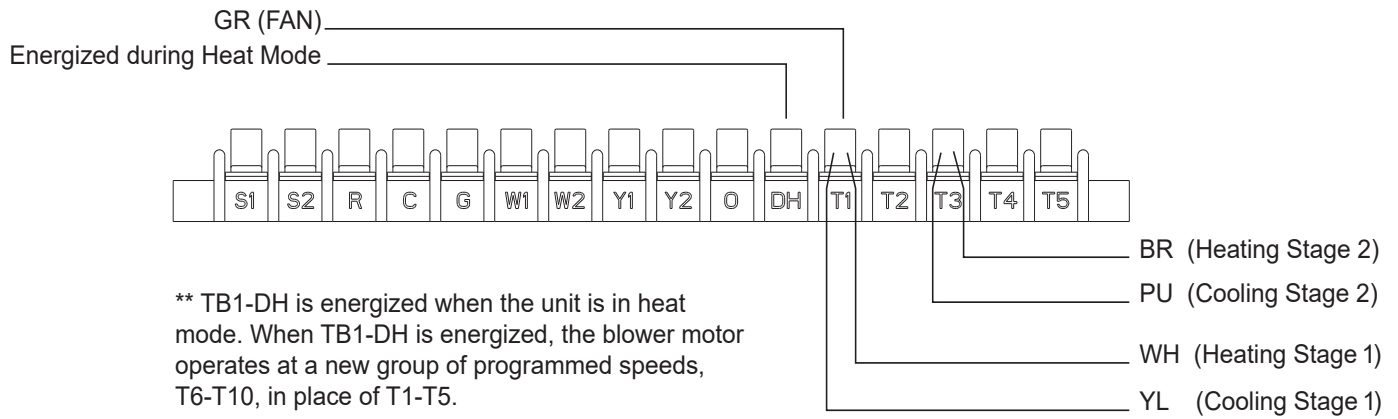
High Heat W2, Brown (BR) is movable and set to TB1-T8.

These wires can be moved together or separately and placed on any unoccupied terminal.

Note: YL can be moved to tap T3 as long as YL does not share the tap with PU. WH can be moved to tap T7 as long as WH does not share the tap with BR.

If high cool operation is set at Tap T4 or T5, low cool operation must be set at T2.

If high heat operation is set at T9 or T10, low heat operation must be set at T7.



- Move YELLOW (YL) wire from TB1-T1 to T2 to change blower speed during cooling stage 1 operation. (Do not move wires YL and PU to the same taps)
- Move WHITE (WH) wire from TB1-T6 to T7 to change blower speed during heating stage 1 operation. (Do not move wires WH and BR to the same taps)
- Move PURPLE (PU) wire from TB1-T3 to T4 or T5 to change blower speed during cooling stage 2 operation. (Do not move wires YL and PU to the same taps)
- Move BROWN (BR) wire from TB1-T8 to T9 or T10 to change blower speed during heating stage 2 operation. (Do not move wires WH and BR to the same taps)

**DFC/DFG OPERATION and WIRE RANGE CHART**

| DFC/DFG OPERATION |   |    |    |    |    |    | WIRE RANGE |     |    |    |     |    |    |     |    |     |
|-------------------|---|----|----|----|----|----|------------|-----|----|----|-----|----|----|-----|----|-----|
| AC                | G | Y1 | Y2 | W1 | W2 | DH | T1         | T2  | T3 | T4 | T5  | T6 | T7 | T8  | T9 | T10 |
| Fan Only          | X |    |    |    |    |    | GR         |     |    |    |     |    |    |     |    |     |
| Cooling Mode LO   | X | X  |    |    |    |    | ● →        |     |    |    |     |    |    |     |    |     |
| Cooling Mode HI   | X | X  | X  |    |    |    |            | ● → |    |    |     |    |    |     |    |     |
| Heating Mode Lo   | X |    |    | X  |    |    |            |     |    |    | ● → |    |    |     |    |     |
| Heating Mode HI   | X |    |    | X  | X  |    |            |     |    |    |     |    |    | ● → |    |     |

X= 24V Signal

● → = Range of AVAILABLE TAPS

For wire color information and placement, view DFC/DFG Model Wiring

## ELECTRICAL INPUT CHECK

Make preliminary check of evaporator fan ampere draw and verify that motor nameplate amps are not exceeded. A final check of amp draw should be made upon completion of air balancing of the duct system (see Appendix B).

## REFRIGERATION SYSTEM

The unit is equipped with a thermal expansion valve as a metering device.

Ensure the hold-down bolts on the compressor are secure and have not vibrated loose during shipment. Check that vibration grommets have been installed. Visually check all piping for damage and leaks; repair if necessary. The entire system has been factory charged and tested, making it unnecessary to field charge. Factory charges are shown on the unit's nameplate. To confirm charge levels or, if a leak occurs and charge needs to be added to the system, it is recommended to evacuate the system and recharge refrigerant to unit nameplate specifications. This unit has been rated in the cooling mode at the AHRI rated conditions of: Indoor (80°db / 67°wb) and outdoor (95°db).

While operating at this condition, the superheat and subcool for each circuit for each unit should fall within the values listed in the table below. The superheat is measured at the suction service port located near the compressor. The subcool is measured at the liquid line service port.

## SUPERHEAT AND SUBCOOLING

### CHECKING SUBCOOLING

NOTE: Units with a TXV should be charged to Subcooling only. Make sure the air flow is correct before making any adjustments.

EXAMPLE:

- a. Liquid Line Pressure = 417 PSI
- b. Corresponding Temp. = 120°F
- c. Thermometer on Liquid line = 109°F.

To obtain the amount of subcooling, subtract 109°F from 120°F. The difference is 11° subcooling. See the specification sheet or technical information manual for the design subcooling range for your unit.

**SUBCOOLING FORMULA = SATURATED LIQUID LINE TEMPERATURE - LIQUID LINE TEMPERATURE**

### CHECKING SUPERHEAT

EXAMPLE:

- a. Suction Pressure = 143 PSI
- b. Corresponding Temp. = 50°F
- c. Thermometer on Suction Line = 59°F

To obtain the degrees temperature of superheat, subtract 50.0 from 59.0°F. The difference is 9° Superheat. The 9° Superheat would fall in the ± range of allowable superheat.

**SUPERHEAT = SUCTION LINE TEMP - SAT. SUCTION TEMP.**

### SUPERHEAT ADJUSTMENT

NOTE: Superheat adjustments should not be made until indoor ambient conditions have stabilized. This could take up to 24 hours depending on indoor temperature and humidity. Before check-

ing superheat, run the unit in cooling for 15-20 minutes or until refrigerant pressures stabilize. Use the following guidelines and methods to check unit operation and ensure that the refrigerant charge is within limits.

For TXV systems, to adjust superheat, unscrew the cover from the expansion valve, locate the adjustment screw, and turn it clockwise (in) to increase superheat or counterclockwise (out) to decrease superheat. It is recommended to make small adjustments at a time, 1/8-1/4 turn increments. Replace adjustment cap. Wait a minimum of 15 minutes between adjustments to allow time for the TXV and pressures to stabilize.

### REFRIGERANT CHARGE CHECK

**NOTE:** FOR OPTIMAL PERFORMANCE, FOLLOW CHARGING INSTRUCTIONS BELOW.

#### Units with Fixed Orifice Devices

All package units with fixed orifice devices are charged using the superheat method at the compressor suction line. To increase super heat, remove charge and to decrease super heat, add charge. After superheat is adjusted, it is recommended to check unit subcooling at the condenser coil liquid line. See Figure 14: DESIGN SUPERHEAT AND SUBCOOLING table for targets on each model.

#### Units with Expansion valve (TXV)

Single Stage Cooling Application: Refer to the Design Superheat & Subcooling table

Two-Stage Cooling Application: Run unit on Low Stage cooling and refer to Design Superheat & Subcooling table.

1. Purge gauge lines. Connect service gauge manifold to access fittings. Run system at least 10 minutes to allow pressure to stabilize.
2. Temporarily install thermometer on liquid (small) line near liquid line access fitting with adequate contact and insulate for best possible reading.
3. Check subcooling and superheat. System should have a subcooling and superheat within the range listed on the Design Superheat and Subcooling table.

a. If subcooling and superheat are low, adjust TXV superheat, then check subcooling.

**NOTE:** To adjust superheat, turn the valve stem clockwise to increase and counterclockwise to decrease. If an under charge is suspected, recover the charge, re-evacuate the system and recharge per data plate. No adjustments should be made if suspecting a charge issue.

- b. If subcooling is low and superheat is high, add charge to raise subcooling then check superheat.
- c. If subcooling and superheat are high, adjust TXV valve superheat, then check subcooling.
- d. If subcooling is high and superheat is low, adjust TXV valve superheat and remove charge to lower the subcooling.

**NOTE:** Do NOT adjust the charge based on suction pressure unless there is a gross undercharge.

4. Disconnect manifold set, installation is complete.

| Design Superheat & Subcooling |         |                    |                     |                     |                            |
|-------------------------------|---------|--------------------|---------------------|---------------------|----------------------------|
| Model                         | Circuit | Superheat<br>± 2°F | Subcooling<br>± 1°F | Expansion<br>Device | Outdoor<br>Ambient<br>(°F) |
| DFG180                        | 1       | 8                  | 14                  | TXV                 | 95                         |
| DFG180                        | 2       | 8                  | 12                  | TXV                 | 95                         |
| DFG240                        | 1       | 8                  | 9                   | TXV                 | 95                         |
| DFG240                        | 2       | 8                  | 6                   | TXV                 | 95                         |
| DFG300                        | 1       | 10                 | 7                   | TXV                 | 95                         |
| DFG300                        | 2       | 10                 | 7                   | TXV                 | 95                         |

## NORMAL SEQUENCE OF OPERATION - COOLING

### REFRIGERATION SEQUENCE CHECK

With the disconnect switch open, remove the field connected thermostat wire from terminal R on TB1 terminal block. Place a jumper across terminals R and G, and across R and Y on TB1 terminal block. Close the disconnect switch. The following operational sequence should be observed.

1. Current through primary winding of transformer TRANS1 energizes the 24-volt control circuit.
2. To simulate a mechanical call for cooling from the wall thermostat, place a jumper across terminals R and Y1 of terminal block TB1.
3. **UNIT WITH ECONOMIZER OPTION:** The compressor circuit is interlocked through terminals 3 and 4 of the economizer module. If the outdoor air enthalpy (temperature and humidity) is not suitable for cooling, the economizer terminals will be closed permitting compressor to be energized.
4. The blower contactor closes its contacts L1, L2 and L3 to T1, T2 and T3 to provide power to the supply fan motor.
5. Compressor contactor closes its contacts L1, L2 and L3 to T1, T2 and T3 to provide power to the compressor motor COMP 1; COMP 2, if conditions are correct. In addition, contactor C1 closes its contact L3 to T3, energizing the condenser fan motor.



### WARNING

**BURN HAZARD!  
DO NOT TOUCH! DISCHARGE LINE MAY BE HOT!**

6. Check that each compressor is operating correctly. The scroll compressors in these units MUST operate in the proper rotation. To ensure the compressors are operating in the correct direction, check the compressor discharge line pressure or temperature after each compressor is started. The discharge pressure and discharge line temperature should increase. If this does not occur and the compressor is producing an exceptional amount of noise, perform the following checks.
  - Ensure all compressors are operating in the proper direction. If a single motor is operating backwards, check the power wiring for that motor and correct any leads that have been interchanged at the contactor or at the motor.
7. With all safety devices closed, the system will continue

cooling operation until the thermostat is satisfied.

8. Disconnecting the jumper wire between R and Y1 and Y2 and between R and G on TB1 terminal block will simulate a satisfied thermostat. The compressors will cycle off and IIC (pin 12) will initiate its time delay cycle. The compressor and the supply fan will cycle off.
9. After a time delay of approximately 3 minutes, the compressor control circuits will be ready to respond to a subsequent call for cooling from the wall thermostat.
10. Open disconnect switch. Reconnect the field thermostat wire at terminal R on terminal block TB1.

## MAINTENANCE



### WARNING

#### HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



### WARNING

**TO PREVENT PERSONAL INJURY OR DEATH DUE TO IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE, REFER TO THIS MANUAL. FOR ADDITIONAL ASSISTANCE OR INFORMATION, CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.**



### CAUTION

**THIS UNIT MUST BE ISOLATED FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE TESTING EQUAL TO OR LESS THAN 1/2 PSIG.**

Preventive maintenance is the best way to avoid unnecessary expense and inconvenience. Have this system inspected at regular intervals by qualified service personnel, at least twice a year. Routine maintenance should cover the following items:

1. Tighten, set screws, and wire connections.
2. Clean evaporator mechanically or with cold water, if necessary. Usually any fouling is only matted on the entering air face of the coil and can be removed by brushing.
3. Replace filters as needed (see below).
4. Check for blockage of condensate drain.
5. Check power and control voltages.
6. Check running amperage.
7. Check operating temperatures and pressures.
8. Check and adjust temperature and pressure controls.
9. Check and adjust damper linkages.
10. Check operation of all safety controls.
11. Examine gas furnaces (see below and the User's Information Manual).
12. Check condenser fans and tighten set screws.

## FILTERS



### CAUTION

TO PREVENT PROPERTY DAMAGE DUE TO FIRE AND LOSS OF EQUIPMENT EFFICIENCY OR EQUIPMENT DAMAGE DUE TO DUST AND LINT BUILD UP ON INTERNAL PARTS, NEVER OPERATE UNIT WITHOUT AN AIR FILTER INSTALLED IN THE RETURN AIR SYSTEM

Every application may require a different frequency of replacement of dirty filters. Filters must be replaced at least every three (3) months during operating seasons.

Dirty filters are the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every two months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter.

Disposable return air filters are supplied with this unit. See the unit Specification Sheet or Technical Manual for the correct size and part number. To remove the filters, remove the filter access panel on return side of the unit.

## CABINET FINISH MAINTENANCE

Use a fine grade automotive wax on the cabinet finish to maintain the finish's original high luster. This is especially important in installations with extended periods of direct sunlight.

## CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris. **NOTE:** Clean the opposite direction of air flow.

## MAINTENANCE OF MICROCHANNEL HEAT EXCHANGERS (MCHE)

Frequent servicing is essential to maintaining the required MCHE performance. For every installed Danfoss MCHE, service records must be documented.



### CAUTION

PRIOR TO SERVICING MCHE, BE SURE TO DISCONNECT THE POWER SUPPLY AND USE LOCK-OUT METHODS TO PREVENT THE POWER FROM ACCIDENTALLY BEING TURNED ON.

## SHUT DOWN PERIODS

During periods when the MCHE is not operated for longer than a week, the MCHE must be completely cleaned following the cleaning procedure. This practice must also be performed during short shut-down periods where corrosive deposits accumulate on the MCHE.

## CLEANING PROCEDURE

Relative to tube & fin heat exchangers, MicroChannel heat exchanger coils tend to accumulate more dirt on the surface of the coil and less dirt inside the coil, making them easier to clean. Follow the steps below for proper cleaning:

## STEP 1: Remove Surface Debris

Remove surface dirt, leaves, fibers, etc. with a vacuum cleaner (preferably with a brush or other soft attachment rather than a metal tube), compressed air blown from the inside out, and/or a soft bristle (not wire!) brush. Do not impact or scrape the coil with the vacuum tube, air nozzle, etc.

## STEP 2: Rinse

Rinse the coil by following procedure:

1. Rinse the coil by approved MCHE cleaner first, or rinsing by water directly;
2. Waiting for 5 minutes;
3. Wash the coil by water;

Adjust the angle of gimbaled nozzle and insert it through fans. Using an extension rod if the nozzle cannot reach the bottom side. Preferably cleaning the coils from the inside-out and top to bottom (see figure 1), running the water through every fin passage until it comes out clean. The fins of MicroChannel coils are stronger than traditional tube & fin coil fins but still need to be handled with care. Do not hit the coil with the hose. We recommend placing your thumb over the end of the hose to obtain a gentler spray and reduce the possibility of impact damage. Please **PAY MORE ATTENTION** when using a pressure cleaning equipment to prevent damage.

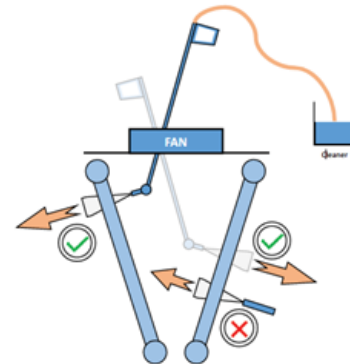


FIGURE 1

Highest pressure of cleaning equipment shall not exceed 15 bar, and tentatively move the cleaning equipment from far to near to prevent damage.

- KEEP the outlet of washer away from coil for at least 4in (see figure 2);
- KEEP the water gun perpendicular to the coil surface and the angle error shall less than 20°, or ±40° if the distance from washer to coil is more than 12in (see figure 2);
- Water outlet angle for high pressure cleaning equipment shall over 15° (see figure 3).

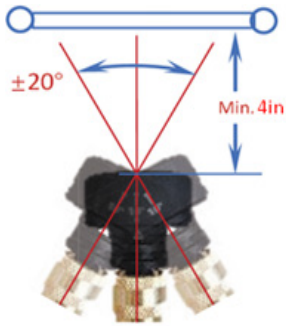


FIGURE 2



FIGURE 3

Warranty claims related to cleaning damage, especially for incorrect pressure washing operation, or corrosion resulting from applying non-recommended cleaners, will NOT be honored.

**STEP 3: Remove Surface Debris**

Depending on the installation and fin geometry, MicroChannel heat exchangers could possibly retain more water compared to traditional tube & fin coils. It is advised to blow off or vacuum out the residual water from the coil to speed up drying and prevent pooling. Daikin recommends a quarterly cleaning of the coils, as the minimum. The cleaning frequency should be increased depending on the level of dirt/dust accumulation and the environment (e.g., coastal areas with chlorides and salts) or industrial areas with aggressive substances.



**WARNING**

**FIELD APPLIED COATINGS ARE NOT RECOMMENDED FOR BRAZED ALUMINUM MICROCHANNEL HEAT EXCHANGERS. MICROCHANNEL HEAT EXCHANGERS MUST NOT BE COATED USING ANY OTHER COATING, COATING OF A COIL USING A SUPPLIER OR COATING PROCESS IS NOT APPROVED AND VOIDS THE PRODUCT WARRANTY. IT MAY ALSO REDUCE THE LIFETIME AND/OR THE PERFORMANCE OF THE MICROCHANNEL HEAT EXCHANGER.**

**CONDENSER FANS**

Bearings on the condenser fan motors are permanently lubricated. No additional oiling is required.

**FUNCTIONAL PARTS**

Refer to the unit Parts Catalog for a list of functional parts. Parts are available from your distributor.



# APPENDIX A BLOWER PERFORMANCE DATA

## DIRECT DRIVE - STANDARD

| DFC1803D Standard Static |        |         |       |       |       |       |
|--------------------------|--------|---------|-------|-------|-------|-------|
| Speed Tap                | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                       | 0.2    | 3198    | 422   | 434   | 0.19  | 0.20  |
|                          | 0.4    | 2752    | 503   | 498   | 0.23  | 0.22  |
|                          | 0.6    | 2055    | 609   | 564   | 0.27  | 0.25  |
|                          | 0.8    | 1372    | 674   | 648   | 0.30  | 0.29  |
|                          | 1      | -       | -     | -     | -     | -     |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T2                       | 0.2    | 4368    | 496   | 509   | 0.35  | 0.35  |
|                          | 0.4    | 3945    | 567   | 568   | 0.39  | 0.40  |
|                          | 0.6    | 3374    | 654   | 626   | 0.46  | 0.44  |
|                          | 0.8    | 3899    | 714   | 696   | 0.50  | 0.48  |
|                          | 1      | 2318    | 761   | 751   | 0.53  | 0.52  |
|                          | 1.2    | 1766    | 791   | 826   | 0.55  | 0.57  |
| T3                       | 0.2    | 5124    | 544   | 558   | 0.50  | 0.51  |
|                          | 0.4    | 4716    | 609   | 613   | 0.56  | 0.56  |
|                          | 0.6    | 4222    | 685   | 667   | 0.63  | 0.61  |
|                          | 0.8    | 3643    | 741   | 728   | 0.68  | 0.67  |
|                          | 1      | 3264    | 788   | 778   | 0.72  | 0.71  |
|                          | 1.2    | 2756    | 827   | 845   | 0.76  | 0.77  |
| T4                       | 0.2    | 7370    | 685   | 705   | 1.33  | 1.37  |
|                          | 0.4    | 7008    | 733   | 750   | 1.43  | 1.46  |
|                          | 0.6    | 6703    | 779   | 791   | 1.52  | 1.54  |
|                          | 0.8    | 6574    | 826   | 829   | 1.61  | 1.61  |
|                          | 1      | 6021    | 873   | 868   | 1.70  | 1.69  |
|                          | 1.2    | 5643    | 928   | 911   | 1.80  | 1.77  |
| T5                       | 0.2    | 7626    | 702   | 722   | 1.27  | 1.31  |
|                          | 0.4    | 7265    | 749   | 766   | 1.36  | 1.39  |
|                          | 0.6    | 6970    | 793   | 806   | 1.44  | 1.46  |
|                          | 0.8    | 4105    | 837   | 843   | 1.51  | 1.53  |
|                          | 1      | 6316    | 882   | 881   | 1.60  | 1.59  |
|                          | 1.2    | 5955    | 936   | 922   | 1.69  | 1.67  |
| T6                       | 0.2    | 7227    | 677   | 695   | 1.11  | 1.14  |
|                          | 0.4    | 6858    | 726   | 741   | 1.19  | 1.22  |
|                          | 0.6    | 6540    | 774   | 783   | 1.27  | 1.29  |
|                          | 0.8    | 6188    | 820   | 823   | 1.35  | 1.35  |
|                          | 1      | -       | -     | -     | -     | -     |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T7                       | 0.2    | 7431    | 690   | 709   | 1.19  | 1.22  |
|                          | 0.4    | 7065    | 738   | 754   | 1.27  | 1.30  |
|                          | 0.6    | 6760    | 784   | 795   | 1.35  | 1.37  |
|                          | 0.8    | 6423    | 829   | 833   | 1.43  | 1.44  |
|                          | 1      | 6084    | 875   | 872   | 1.51  | 1.51  |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T8                       | 0.2    | 7669    | 705   | 724   | 1.29  | 1.32  |
|                          | 0.4    | 7308    | 751   | 769   | 1.37  | 1.41  |
|                          | 0.6    | 7016    | 795   | 809   | 1.45  | 1.48  |
|                          | 0.8    | 6696    | 839   | 846   | 1.53  | 1.55  |
|                          | 1      | 6366    | 884   | 883   | 1.62  | 1.61  |
|                          | 1.2    | 6007    | 938   | 923   | 1.71  | 1.69  |
| T9                       | 0.2    | 7783    | 712   | 732   | 1.34  | 1.38  |
|                          | 0.4    | 7424    | 758   | 776   | 1.42  | 1.46  |
|                          | 0.6    | 7138    | 800   | 815   | 1.50  | 1.53  |
|                          | 0.8    | 6826    | 843   | 851   | 1.59  | 1.60  |
|                          | 1      | 6501    | 888   | 888   | 1.67  | 1.67  |
|                          | 1.2    | 6149    | 942   | 928   | 1.77  | 1.74  |
| T10                      | 0.2    | 7885    | 719   | 739   | 1.38  | 1.42  |
|                          | 0.4    | 7527    | 764   | 782   | 1.47  | 1.51  |
|                          | 0.6    | 7247    | 805   | 821   | 1.55  | 1.58  |
|                          | 0.8    | 6941    | 848   | 857   | 1.63  | 1.65  |
|                          | 1      | 6620    | 892   | 893   | 1.72  | 1.72  |
|                          | 1.2    | 6275    | 946   | 932   | 1.82  | 1.79  |

| DFC2403D Standard Static |        |         |       |       |       |       |
|--------------------------|--------|---------|-------|-------|-------|-------|
| Speed Tap                | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                       | 0.2    | 4426    | 504   | 521   | 0.29  | 0.30  |
|                          | 0.4    | 4019    | 574   | 579   | 0.33  | 0.33  |
|                          | 0.6    | 3466    | 660   | 636   | 0.38  | 0.37  |
|                          | 0.8    | 2911    | 717   | 701   | 0.41  | 0.40  |
|                          | 1      | 2424    | 772   | 756   | 0.44  | 0.43  |
|                          | 1.2    | 1881    | 809   | 825   | 0.47  | 0.47  |
| T2                       | 0.2    | 5830    | 591   | 608   | 0.62  | 0.64  |
|                          | 0.4    | 5453    | 649   | 659   | 0.68  | 0.69  |
|                          | 0.6    | 5056    | 711   | 707   | 0.75  | 0.74  |
|                          | 0.8    | 4597    | 771   | 757   | 0.81  | 0.80  |
|                          | 1      | 4141    | 832   | 803   | 0.88  | 0.85  |
|                          | 1.2    | 3702    | 867   | 861   | 0.91  | 0.91  |
| T3                       | 0.2    | 6929    | 659   | 677   | 0.98  | 1.00  |
|                          | 0.4    | 6571    | 709   | 724   | 1.05  | 1.07  |
|                          | 0.6    | 6269    | 756   | 765   | 1.12  | 1.13  |
|                          | 0.8    | 5883    | 815   | 806   | 1.21  | 1.19  |
|                          | 1      | 5461    | 876   | 845   | 1.30  | 1.25  |
|                          | 1.2    | 5096    | 910   | 895   | 1.35  | 1.32  |
| T4                       | 0.2    | 9133    | 798   | 821   | 2.08  | 2.14  |
|                          | 0.4    | 8793    | 837   | 860   | 2.19  | 2.25  |
|                          | 0.6    | 8538    | 871   | 895   | 2.28  | 2.34  |
|                          | 0.8    | 8286    | 912   | 929   | 2.38  | 2.43  |
|                          | 1      | 7991    | 947   | 960   | 2.48  | 2.51  |
|                          | 1.2    | 7739    | 984   | 992   | 2.57  | 2.59  |
| T5                       | 0.2    | 9371    | 813   | 837   | 2.26  | 2.33  |
|                          | 0.4    | 9030    | 852   | 875   | 2.37  | 2.43  |
|                          | 0.6    | 8756    | 888   | 912   | 2.47  | 2.53  |
|                          | 0.8    | 8516    | 924   | 946   | 2.57  | 2.63  |
|                          | 1      | 8245    | 953   | 977   | 2.65  | 2.71  |
|                          | 1.2    | 8000    | 990   | 1007  | 2.75  | 2.80  |
| T6                       | 0.2    | 7986    | 725   | 745   | 1.42  | 1.46  |
|                          | 0.4    | 7641    | 769   | 787   | 1.51  | 1.54  |
|                          | 0.6    | 7394    | 805   | 824   | 1.58  | 1.61  |
|                          | 0.8    | 7076    | 860   | 859   | 1.68  | 1.68  |
|                          | 1      | -       | -     | -     | -     | -     |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T7                       | 0.2    | 8329    | 746   | 767   | 1.59  | 1.64  |
|                          | 0.4    | 7987    | 789   | 808   | 1.68  | 1.73  |
|                          | 0.6    | 7748    | 823   | 844   | 1.76  | 1.80  |
|                          | 0.8    | 7450    | 875   | 878   | 1.87  | 1.87  |
|                          | 1      | 7096    | 925   | 911   | 1.98  | 1.95  |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T8                       | 0.2    | 8663    | 768   | 789   | 1.78  | 1.83  |
|                          | 0.4    | 8323    | 808   | 829   | 1.88  | 1.92  |
|                          | 0.6    | 8083    | 842   | 865   | 1.95  | 2.01  |
|                          | 0.8    | 7806    | 890   | 898   | 2.06  | 2.08  |
|                          | 1      | 7473    | 935   | 930   | 2.17  | 2.16  |
|                          | 1.2    | 7204    | 970   | 966   | 2.25  | 2.24  |
| T9                       | 0.2    | 9133    | 798   | 821   | 2.08  | 2.14  |
|                          | 0.4    | 8793    | 837   | 860   | 2.19  | 2.25  |
|                          | 0.6    | 8538    | 871   | 895   | 2.28  | 2.34  |
|                          | 0.8    | 8286    | 912   | 929   | 2.38  | 2.43  |
|                          | 1      | 7991    | 947   | 960   | 2.48  | 2.51  |
|                          | 1.2    | 7739    | 984   | 992   | 2.57  | 2.59  |
| T10                      | 0.2    | 9371    | 813   | 837   | 2.26  | 2.33  |
|                          | 0.4    | 9030    | 852   | 875   | 2.37  | 2.43  |
|                          | 0.6    | 8756    | 888   | 912   | 2.47  | 2.53  |
|                          | 0.8    | 8516    | 924   | 946   | 2.57  | 2.63  |
|                          | 1      | 8245    | 953   | 977   | 2.65  | 2.71  |
|                          | 1.2    | 8000    | 990   | 1007  | 2.75  | 2.80  |

**NOTES:**

High static airflow requires installation of high static kit.

Air flow tables represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

## APPENDIX A BLOWER PERFORMANCE DATA DIRECT DRIVE - STANDARD

| DFC3003D Standard Static |        |         |       |       |       |       |
|--------------------------|--------|---------|-------|-------|-------|-------|
| Speed Tap                | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                       | 0.2    | 5835    | 605   | 594   | 0.57  | 0.56  |
|                          | 0.4    | 5496    | 659   | 654   | 0.63  | 0.62  |
|                          | 0.6    | 5095    | 706   | 736   | 0.67  | 0.70  |
|                          | 0.8    | 4723    | 757   | 785   | 0.72  | 0.75  |
|                          | 1      | 4182    | 836   | 848   | 0.79  | 0.81  |
|                          | 1.2    | 3784    | 874   | 884   | 0.83  | 0.84  |
| T2                       | 0.2    | 7123    | 669   | 647   | 0.91  | 0.88  |
|                          | 0.4    | 6801    | 717   | 701   | 0.97  | 0.95  |
|                          | 0.6    | 6439    | 761   | 761   | 1.03  | 1.03  |
|                          | 0.8    | 6144    | 808   | 813   | 1.10  | 1.10  |
|                          | 1      | 5766    | 864   | 877   | 1.17  | 1.19  |
|                          | 1.2    | 5416    | 902   | 921   | 1.22  | 1.25  |
| T3                       | 0.2    | 8988    | 809   | 767   | 1.66  | 1.58  |
|                          | 0.4    | 8693    | 847   | 810   | 1.74  | 1.67  |
|                          | 0.6    | 8401    | 885   | 843   | 1.82  | 1.73  |
|                          | 0.8    | 8197    | 923   | 892   | 1.90  | 1.83  |
|                          | 1      | 7998    | 954   | 951   | 1.96  | 1.96  |
|                          | 1.2    | 7722    | 988   | 1000  | 2.03  | 2.06  |
| T4                       | 0.2    | 10778   | 1051  | 980   | 3.13  | 2.92  |
|                          | 0.4    | 10516   | 1077  | 1007  | 3.21  | 3.00  |
|                          | 0.6    | 10323   | 1106  | 1027  | 3.30  | 3.06  |
|                          | 0.8    | 10162   | 1132  | 1061  | 3.37  | 3.16  |
|                          | 1      | 10002   | 1152  | 1097  | 3.44  | 3.27  |
|                          | 1.2    | 9806    | 1179  | 1132  | 3.52  | 3.38  |
| T5                       | 0.2    | 10958   | 1088  | 1013  | 3.38  | 3.15  |
|                          | 0.4    | 10701   | 1112  | 1038  | 3.45  | 3.22  |
|                          | 0.6    | 10521   | 1140  | 1058  | 3.54  | 3.29  |
|                          | 0.8    | 10359   | 1164  | 1089  | 3.61  | 3.38  |
|                          | 1      | 10187   | 1186  | 1120  | 3.68  | 3.48  |
|                          | 1.2    | 10000   | 1211  | 1152  | 3.76  | 3.58  |
| T6                       | 0.2    | 9218    | 832   | 787   | 1.79  | 1.70  |
|                          | 0.4    | 8927    | 869   | 828   | 1.87  | 1.79  |
|                          | 0.6    | -       | -     | -     | -     | -     |
|                          | 0.8    | -       | -     | -     | -     | -     |
|                          | 1      | -       | -     | -     | -     | -     |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T7                       | 0.2    | 9642    | 879   | 828   | 2.07  | 1.95  |
|                          | 0.4    | 9358    | 913   | 866   | 2.15  | 2.04  |
|                          | 0.6    | 9096    | 949   | 893   | 2.23  | 2.10  |
|                          | 0.8    | 8916    | 983   | 938   | 2.31  | 2.21  |
|                          | 1      | 8754    | 1008  | 991   | 2.37  | 2.33  |
|                          | 1.2    | -       | -     | -     | -     | -     |
| T8                       | 0.2    | 9934    | 1083  | 971   | 2.68  | 2.40  |
|                          | 0.4    | 9735    | 1110  | 999   | 2.75  | 2.47  |
|                          | 0.6    | 9559    | 1138  | 1027  | 2.82  | 2.54  |
|                          | 0.8    | 9379    | 1162  | 1056  | 2.88  | 2.61  |
|                          | 1      | 9201    | 1187  | 1086  | 2.94  | 2.69  |
|                          | 1.2    | 9006    | 1212  | 1120  | 3.00  | 2.77  |
| T9                       | 0.2    | 10398   | 1123  | 1008  | 3.04  | 2.73  |
|                          | 0.4    | 10203   | 1149  | 1034  | 3.11  | 2.80  |
|                          | 0.6    | 10034   | 1176  | 1060  | 3.18  | 2.87  |
|                          | 0.8    | 9863    | 1199  | 1087  | 3.24  | 2.94  |
|                          | 1      | 9698    | 1222  | 1116  | 3.30  | 3.02  |
|                          | 1.2    | 9516    | 1245  | 1147  | 3.37  | 3.10  |
| T10                      | 0.2    | 10958   | 1088  | 1013  | 3.38  | 3.15  |
|                          | 0.4    | 10701   | 1112  | 1038  | 3.45  | 3.22  |
|                          | 0.6    | 10521   | 1140  | 1058  | 3.54  | 3.29  |
|                          | 0.8    | 10359   | 1164  | 1089  | 3.61  | 3.38  |
|                          | 1      | 10187   | 1186  | 1120  | 3.68  | 3.48  |
|                          | 1.2    | 10000   | 1211  | 1152  | 3.76  | 3.58  |

**NOTES:**

High static airflow requires installation of high static kit.

Air flow tables represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

# APPENDIX A BLOWER PERFORMANCE DATA

## DIRECT DRIVE - HIGH STATIC

| DFC1803D High Static |        |         |       |       |       |       |           |        |         |       |       |       |       |
|----------------------|--------|---------|-------|-------|-------|-------|-----------|--------|---------|-------|-------|-------|-------|
| Speed Tap            | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 | Speed Tap | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                   | 0.2    | 6622    | 626   | 626   | 0.25  | 0.25  | T6        | 0.2    | 8163    | 925   | 854   | 1.33  | 1.23  |
|                      | 0.4    | 6195    | 666   | 667   | 0.27  | 0.27  |           | 0.4    | 7902    | 953   | 880   | 1.37  | 1.27  |
|                      | 0.6    | 5791    | 709   | 706   | 0.28  | 0.28  |           | 0.6    | 7642    | 979   | 913   | 1.41  | 1.31  |
|                      | 0.8    | 5392    | 749   | 748   | 0.30  | 0.30  |           | 0.8    | 7399    | 1006  | 944   | 1.45  | 1.36  |
|                      | 1      | 4960    | 789   | 792   | 0.31  | 0.32  |           | 1      | 7146    | 1033  | 976   | 1.49  | 1.41  |
|                      | 1.2    | 4503    | 836   | 836   | 0.33  | 0.33  |           | 1.2    | 6893    | 1061  | 1010  | 1.53  | 1.45  |
|                      | 1.4    | 3515    | 956   | 911   | 0.38  | 0.36  |           | 1.4    | 6626    | 1090  | 1047  | 1.57  | 1.51  |
|                      | 1.6    | 2887    | 998   | 978   | 0.40  | 0.39  |           | 1.6    | 6349    | 1122  | 1082  | 1.61  | 1.56  |
|                      | 1.8    | 2360    | 1047  | 1020  | 0.42  | 0.41  |           | 1.8    | 6035    | 1154  | 1118  | 1.66  | 1.61  |
|                      | 2      | 1807    | 1082  | 1067  | 0.43  | 0.43  |           | 2      | 5765    | 1184  | 1148  | 1.70  | 1.65  |
| 2.2                  | 1305   | 1109    | 1103  | 0.44  | 0.44  | 2.2   | 5401      | 1215   | 1189    | 1.75  | 1.71  |       |       |
| T2                   | 0.2    | 6622    | 626   | 626   | 0.25  | 0.25  | T7        | 0.2    | 9129    | 805   | 800   | 2.63  | 1.63  |
|                      | 0.4    | 6195    | 666   | 667   | 0.27  | 0.27  |           | 0.4    | 8806    | 840   | 837   | 2.75  | 1.71  |
|                      | 0.6    | 5791    | 709   | 706   | 0.28  | 0.28  |           | 0.6    | 8519    | 876   | 873   | 2.86  | 1.78  |
|                      | 0.8    | 5392    | 749   | 748   | 0.30  | 0.30  |           | 0.8    | 8224    | 912   | 910   | 2.98  | 1.86  |
|                      | 1      | 4960    | 789   | 792   | 0.31  | 0.32  |           | 1      | 7951    | 946   | 942   | 3.09  | 1.92  |
|                      | 1.2    | 4503    | 836   | 836   | 0.33  | 0.33  |           | 1.2    | 7659    | 981   | 977   | 3.21  | 1.99  |
|                      | 1.4    | 3515    | 956   | 911   | 0.38  | 0.36  |           | 1.4    | 7312    | 1022  | 1015  | 3.34  | 2.07  |
|                      | 1.6    | 2887    | 998   | 978   | 0.40  | 0.39  |           | 1.6    | 6930    | 1063  | 1053  | 3.47  | 2.15  |
|                      | 1.8    | 2360    | 1047  | 1020  | 0.42  | 0.41  |           | 1.8    | 6530    | 1109  | 1090  | 3.62  | 2.22  |
|                      | 2      | 1807    | 1082  | 1067  | 0.43  | 0.43  |           | 2      | 6154    | 1150  | 1128  | 3.76  | 2.30  |
| 2.2                  | 1305   | 1109    | 1103  | 0.44  | 0.44  | 2.2   | 5715      | 1196   | 1168    | 3.91  | 2.38  |       |       |
| T3                   | 0.2    | 8201    | 738   | 736   | 0.84  | 0.84  | T8        | 0.2    | 9286    | 816   | 811   | 2.67  | 1.65  |
|                      | 0.4    | 7841    | 776   | 774   | 0.89  | 0.88  |           | 0.4    | 8969    | 851   | 848   | 2.78  | 1.73  |
|                      | 0.6    | 7516    | 814   | 811   | 0.93  | 0.93  |           | 0.6    | 8688    | 886   | 884   | 2.90  | 1.80  |
|                      | 0.8    | 7185    | 852   | 849   | 0.97  | 0.97  |           | 0.8    | 8398    | 923   | 920   | 3.02  | 1.88  |
|                      | 1      | 6864    | 887   | 885   | 1.01  | 1.01  |           | 1      | 8132    | 956   | 952   | 3.12  | 1.94  |
|                      | 1.2    | 6517    | 926   | 923   | 1.06  | 1.05  |           | 1.2    | 7849    | 990   | 987   | 3.24  | 2.01  |
|                      | 1.4    | 5970    | 991   | 973   | 1.13  | 1.11  |           | 1.4    | 7530    | 1028  | 1022  | 3.36  | 2.08  |
|                      | 1.6    | 5502    | 1033  | 1020  | 1.18  | 1.16  |           | 1.6    | 7162    | 1068  | 1059  | 3.49  | 2.16  |
|                      | 1.8    | 5050    | 1082  | 1059  | 1.24  | 1.21  |           | 1.8    | 6771    | 1114  | 1096  | 3.64  | 2.23  |
|                      | 2      | 4609    | 1122  | 1101  | 1.28  | 1.26  |           | 2      | 6407    | 1155  | 1134  | 3.78  | 2.31  |
| 2.2                  | 4136   | 1164    | 1141  | 1.33  | 1.30  | 2.2   | 5974      | 1201   | 1173    | 3.93  | 2.39  |       |       |
| T4                   | 0.2    | 8778    | 780   | 776   | 1.12  | 1.12  | T9        | 0.2    | 9405    | 825   | 820   | 2.70  | 1.67  |
|                      | 0.4    | 8441    | 816   | 813   | 1.17  | 1.17  |           | 0.4    | 9091    | 860   | 856   | 2.81  | 1.75  |
|                      | 0.6    | 8141    | 852   | 850   | 1.23  | 1.22  |           | 0.6    | 8815    | 894   | 892   | 2.92  | 1.82  |
|                      | 0.8    | 7832    | 889   | 887   | 1.28  | 1.28  |           | 0.8    | 8529    | 930   | 928   | 3.04  | 1.89  |
|                      | 1      | 7543    | 924   | 921   | 1.33  | 1.32  |           | 1      | 8268    | 963   | 960   | 3.15  | 1.96  |
|                      | 1.2    | 7231    | 960   | 957   | 1.38  | 1.38  |           | 1.2    | 7991    | 997   | 994   | 3.26  | 2.03  |
|                      | 1.4    | 6814    | 1009  | 998   | 1.45  | 1.44  |           | 1.4    | 7692    | 1033  | 1028  | 3.38  | 2.10  |
|                      | 1.6    | 6401    | 1051  | 1039  | 1.51  | 1.50  |           | 1.6    | 7334    | 1073  | 1064  | 3.51  | 2.17  |
|                      | 1.8    | 5980    | 1098  | 1077  | 1.58  | 1.55  |           | 1.8    | 6951    | 1118  | 1100  | 3.65  | 2.24  |
|                      | 2      | 5580    | 1139  | 1117  | 1.64  | 1.61  |           | 2      | 6595    | 1159  | 1138  | 3.79  | 2.32  |
| 2.2                  | 5126   | 1184    | 1157  | 1.70  | 1.67  | 2.2   | 6168      | 1205   | 1177    | 3.94  | 2.40  |       |       |
| T5                   | 0.2    | 9286    | 816   | 811   | 1.40  | 1.39  | T10       | 0.2    | 9495    | 831   | 826   | 2.72  | 1.68  |
|                      | 0.4    | 8969    | 851   | 848   | 1.46  | 1.46  |           | 0.4    | 9185    | 866   | 862   | 2.83  | 1.76  |
|                      | 0.6    | 8688    | 886   | 884   | 1.52  | 1.52  |           | 0.6    | 8911    | 901   | 898   | 2.94  | 1.83  |
|                      | 0.8    | 8398    | 923   | 920   | 1.58  | 1.58  |           | 0.8    | 8629    | 936   | 934   | 3.06  | 1.90  |
|                      | 1      | 8132    | 956   | 952   | 1.64  | 1.63  |           | 1      | 8371    | 969   | 965   | 3.17  | 1.97  |
|                      | 1.2    | 7849    | 990   | 987   | 1.70  | 1.69  |           | 1.2    | 8098    | 1003  | 999   | 3.28  | 2.04  |
|                      | 1.4    | 7530    | 1028  | 1022  | 1.76  | 1.75  |           | 1.4    | 7814    | 1037  | 1033  | 3.39  | 2.11  |
|                      | 1.6    | 7162    | 1068  | 1059  | 1.83  | 1.82  |           | 1.6    | 7464    | 1076  | 1068  | 3.52  | 2.18  |
|                      | 1.8    | 6771    | 1114  | 1096  | 1.91  | 1.88  |           | 1.8    | 7086    | 1121  | 1104  | 3.66  | 2.25  |
|                      | 2      | 6407    | 1155  | 1134  | 1.98  | 1.95  |           | 2      | 6737    | 1162  | 1141  | 3.80  | 2.33  |
| 2.2                  | 5974   | 1201    | 1173  | 2.06  | 2.01  | 2.2   | 6314      | 1208   | 1180    | 3.95  | 2.41  |       |       |

**NOTES:**

- High static airflow requires installation of high static kit.
- Air flow tables represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

# APPENDIX A BLOWER PERFORMANCE DATA

## DIRECT DRIVE - HIGH STATIC

| DFC2403D High Static |        |         |       |       |       |       |
|----------------------|--------|---------|-------|-------|-------|-------|
| Speed Tap            | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                   | 0.2    | 6412    | 631   | 616   | 0.71  | 0.69  |
|                      | 0.4    | 6081    | 683   | 673   | 0.77  | 0.76  |
|                      | 0.6    | 5697    | 729   | 745   | 0.82  | 0.84  |
|                      | 0.8    | 5360    | 778   | 796   | 0.88  | 0.90  |
|                      | 1      | 4895    | 846   | 859   | 0.95  | 0.97  |
|                      | 1.2    | 4519    | 884   | 900   | 1.00  | 1.01  |
|                      | 1.4    | 4139    | 927   | 948   | 1.04  | 1.07  |
|                      | 1.6    | 3635    | 987   | 981   | 1.11  | 1.10  |
|                      | 1.8    | 3278    | 1034  | 1012  | 1.16  | 1.14  |
|                      | 2      | 2968    | 1070  | 1043  | 1.21  | 1.18  |
| 2.2                  | 2662   | 1098    | 1083  | 1.24  | 1.22  |       |
| T2                   | 0.2    | 6797    | 651   | 632   | 0.81  | 0.79  |
|                      | 0.4    | 6471    | 700   | 688   | 0.88  | 0.86  |
|                      | 0.6    | 6099    | 746   | 753   | 0.93  | 0.94  |
|                      | 0.8    | 5784    | 793   | 804   | 0.99  | 1.00  |
|                      | 1      | 5368    | 855   | 868   | 1.07  | 1.08  |
|                      | 1.2    | 5006    | 893   | 911   | 1.12  | 1.14  |
|                      | 1.4    | 4638    | 934   | 962   | 1.17  | 1.20  |
|                      | 1.6    | 4160    | 992   | 997   | 1.24  | 1.25  |
|                      | 1.8    | 3810    | 1039  | 1029  | 1.30  | 1.29  |
|                      | 2      | 3510    | 1076  | 1060  | 1.34  | 1.33  |
| 2.2                  | 3192   | 1106    | 1099  | 1.38  | 1.37  |       |
| T3                   | 0.2    | 9468    | 859   | 811   | 1.95  | 1.84  |
|                      | 0.4    | 9181    | 894   | 850   | 2.03  | 1.93  |
|                      | 0.6    | 8911    | 930   | 878   | 2.11  | 1.99  |
|                      | 0.8    | 8724    | 966   | 925   | 2.19  | 2.10  |
|                      | 1      | 8554    | 992   | 980   | 2.25  | 2.22  |
|                      | 1.2    | 8298    | 1025  | 1027  | 2.33  | 2.33  |
|                      | 1.4    | 8015    | 1054  | 1082  | 2.39  | 2.45  |
|                      | 1.6    | 7718    | 1094  | 1128  | 2.48  | 2.56  |
|                      | 1.8    | 7441    | 1133  | 1158  | 2.57  | 2.63  |
|                      | 2      | 7210    | 1171  | 1189  | 2.66  | 2.70  |
| 2.2                  | 6884   | 1209    | 1218  | 2.74  | 2.76  |       |
| T4                   | 0.2    | 9881    | 909   | 854   | 2.24  | 2.11  |
|                      | 0.4    | 9602    | 941   | 890   | 2.32  | 2.20  |
|                      | 0.6    | 9353    | 976   | 915   | 2.41  | 2.26  |
|                      | 0.8    | 9179    | 1008  | 959   | 2.49  | 2.37  |
|                      | 1      | 9025    | 1032  | 1009  | 2.55  | 2.49  |
|                      | 1.2    | 8787    | 1063  | 1055  | 2.62  | 2.60  |
|                      | 1.4    | 8519    | 1090  | 1107  | 2.69  | 2.73  |
|                      | 1.6    | 8248    | 1127  | 1151  | 2.78  | 2.84  |
|                      | 1.8    | 7989    | 1163  | 1181  | 2.87  | 2.92  |
|                      | 2      | 7770    | 1199  | 1211  | 2.96  | 2.99  |
| 2.2                  | 7460   | 1237    | 1239  | 3.05  | 3.06  |       |
| T5                   | 0.2    | 10268   | 963   | 902   | 2.58  | 2.41  |
|                      | 0.4    | 9996    | 993   | 935   | 2.66  | 2.50  |
|                      | 0.6    | 9769    | 1025  | 957   | 2.74  | 2.56  |
|                      | 0.8    | 9604    | 1055  | 997   | 2.82  | 2.67  |
|                      | 1      | 9456    | 1077  | 1042  | 2.88  | 2.79  |
|                      | 1.2    | 9235    | 1106  | 1084  | 2.96  | 2.90  |
|                      | 1.4    | 8983    | 1132  | 1133  | 3.03  | 3.03  |
|                      | 1.6    | 8736    | 1164  | 1175  | 3.11  | 3.14  |
|                      | 1.8    | 8496    | 1197  | 1204  | 3.20  | 3.22  |
|                      | 2      | 8288    | 1232  | 1233  | 3.29  | 3.30  |
| 2.2                  | 8001   | 1267    | 1259  | 3.39  | 3.37  |       |
| T6                   | 0.2    | 9125    | 822   | 779   | 1.74  | 1.65  |
|                      | 0.4    | 8832    | 860   | 821   | 1.82  | 1.74  |
|                      | 0.6    | 8546    | 898   | 852   | 1.90  | 1.80  |
|                      | 0.8    | 8348    | 935   | 901   | 1.98  | 1.91  |
|                      | 1      | 8158    | 964   | 958   | 2.04  | 2.03  |
|                      | 1.2    | 7887    | 998   | 1007  | 2.11  | 2.13  |
|                      | 1.4    | 7592    | 1029  | 1063  | 2.18  | 2.25  |
|                      | 1.6    | 7272    | 1072  | 1109  | 2.27  | 2.35  |
|                      | 1.8    | -       | -     | -     | -     | -     |
|                      | 2      | -       | -     | -     | -     | -     |
| 2.2                  | -      | -       | -     | -     | -     |       |
| T7                   | 0.2    | 9412    | 852   | 805   | 1.91  | 1.81  |
|                      | 0.4    | 9124    | 888   | 845   | 1.99  | 1.90  |
|                      | 0.6    | 8851    | 925   | 874   | 2.08  | 1.96  |
|                      | 0.8    | 8663    | 960   | 920   | 2.15  | 2.07  |
|                      | 1      | 8490    | 987   | 976   | 2.22  | 2.19  |
|                      | 1.2    | 8232    | 1020  | 1024  | 2.29  | 2.30  |
|                      | 1.4    | 7947    | 1050  | 1079  | 2.36  | 2.42  |
|                      | 1.6    | 7646    | 1090  | 1124  | 2.45  | 2.52  |
|                      | 1.8    | 7366    | 1129  | 1155  | 2.53  | 2.59  |
|                      | 2      | 7134    | 1168  | 1186  | 2.62  | 2.66  |
| 2.2                  | -      | -       | -     | -     | -     |       |
| T8                   | 0.2    | 9695    | 885   | 834   | 2.10  | 1.98  |
|                      | 0.4    | 9412    | 919   | 871   | 2.19  | 2.07  |
|                      | 0.6    | 9153    | 954   | 897   | 2.27  | 2.13  |
|                      | 0.8    | 8974    | 988   | 942   | 2.35  | 2.24  |
|                      | 1      | 8814    | 1013  | 995   | 2.41  | 2.37  |
|                      | 1.2    | 8568    | 1045  | 1042  | 2.48  | 2.48  |
|                      | 1.4    | 8293    | 1073  | 1095  | 2.55  | 2.60  |
|                      | 1.6    | 8010    | 1111  | 1140  | 2.64  | 2.71  |
|                      | 1.8    | 7743    | 1148  | 1170  | 2.73  | 2.78  |
|                      | 2      | 7518    | 1186  | 1201  | 2.82  | 2.86  |
| 2.2                  | 7200   | 1223    | 1229  | 2.91  | 2.92  |       |
| T9                   | 0.2    | 9881    | 909   | 854   | 2.29  | 2.16  |
|                      | 0.4    | 9602    | 941   | 890   | 2.38  | 2.25  |
|                      | 0.6    | 9353    | 976   | 915   | 2.46  | 2.31  |
|                      | 0.8    | 9179    | 1008  | 959   | 2.55  | 2.42  |
|                      | 1      | 9025    | 1032  | 1009  | 2.61  | 2.55  |
|                      | 1.2    | 8787    | 1063  | 1055  | 2.68  | 2.66  |
|                      | 1.4    | 8519    | 1090  | 1107  | 2.75  | 2.79  |
|                      | 1.6    | 8248    | 1127  | 1151  | 2.85  | 2.91  |
|                      | 1.8    | 7989    | 1163  | 1181  | 2.94  | 2.98  |
|                      | 2      | 7770    | 1199  | 1211  | 3.03  | 3.06  |
| 2.2                  | 7460   | 1237    | 1239  | 3.12  | 3.13  |       |
| T10                  | 0.2    | 10268   | 963   | 902   | 2.58  | 2.05  |
|                      | 0.4    | 9996    | 993   | 935   | 2.66  | 2.12  |
|                      | 0.6    | 9769    | 1025  | 957   | 2.74  | 2.17  |
|                      | 0.8    | 9604    | 1055  | 997   | 2.82  | 2.26  |
|                      | 1      | 9456    | 1077  | 1042  | 2.88  | 2.37  |
|                      | 1.2    | 9235    | 1106  | 1084  | 2.96  | 2.46  |
|                      | 1.4    | 8983    | 1132  | 1133  | 3.03  | 2.57  |
|                      | 1.6    | 8736    | 1164  | 1175  | 3.11  | 2.67  |
|                      | 1.8    | 8496    | 1197  | 1204  | 3.20  | 2.73  |
|                      | 2      | 8288    | 1232  | 1233  | 3.29  | 2.80  |
| 2.2                  | 8001   | 1267    | 1259  | 3.39  | 2.86  |       |

**NOTES:**

High static airflow requires installation of high static kit.

Air flow tables represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

# APPENDIX A BLOWER PERFORMANCE DATA

## DIRECT DRIVE - HIGH STATIC

| DFC3003D High Static |        |         |       |       |       |       |           |        |         |       |       |       |       |
|----------------------|--------|---------|-------|-------|-------|-------|-----------|--------|---------|-------|-------|-------|-------|
| Speed Tap            | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 | Speed Tap | Static | Airflow | RPM 1 | RPM 2 | BHP 1 | BHP 2 |
| T1                   | 0.2    | 7629    | 701   | 674   | 1.07  | 1.03  | T6        | 0.2    | 10268   | 963   | 902   | 2.58  | 2.41  |
|                      | 0.4    | 7314    | 746   | 725   | 1.14  | 1.11  |           | 0.4    | 9996    | 993   | 935   | 2.66  | 2.50  |
|                      | 0.6    | 6969    | 789   | 777   | 1.21  | 1.19  |           | 0.6    | 9769    | 1025  | 957   | 2.74  | 2.56  |
|                      | 0.8    | 6701    | 833   | 829   | 1.28  | 1.27  |           | 0.8    | 9604    | 1055  | 997   | 2.82  | 2.67  |
|                      | 1      | 6380    | 882   | 892   | 1.35  | 1.37  |           | 1      | 9456    | 1077  | 1042  | 2.88  | 2.79  |
|                      | 1.2    | 6049    | 919   | 939   | 1.41  | 1.44  |           | 1.2    | 9235    | 1106  | 1084  | 2.96  | 2.90  |
|                      | 1.4    | 5706    | 956   | 994   | 1.46  | 1.52  |           | 1.4    | 8983    | 1132  | 1133  | 3.03  | 3.03  |
|                      | 1.6    | 5285    | 1010  | 1035  | 1.55  | 1.58  |           | 1.6    | 8736    | 1164  | 1175  | 3.11  | 3.14  |
|                      | 1.8    | 4952    | 1055  | 1066  | 1.62  | 1.63  |           | 1.8    | 8496    | 1197  | 1204  | 3.20  | 3.22  |
|                      | 2      | 4673    | 1094  | 1098  | 1.68  | 1.68  |           | 2      | 8288    | 1232  | 1233  | 3.29  | 3.30  |
| 2.2                  | 4339   | 1128    | 1134  | 1.73  | 1.74  | 2.2   | 8001      | 1267   | 1259    | 3.39  | 3.37  |       |       |
| T2                   | 0.2    | 7900    | 719   | 690   | 1.17  | 1.12  | T7        | 0.2    | 10626   | 1022  | 955   | 2.95  | 2.75  |
|                      | 0.4    | 7588    | 763   | 739   | 1.24  | 1.20  |           | 0.4    | 10361   | 1049  | 984   | 3.03  | 2.84  |
|                      | 0.6    | 7253    | 805   | 787   | 1.31  | 1.28  |           | 0.6    | 10156   | 1080  | 1004  | 3.11  | 2.90  |
|                      | 0.8    | 6999    | 848   | 839   | 1.38  | 1.37  |           | 0.8    | 9995    | 1107  | 1040  | 3.19  | 3.00  |
|                      | 1      | 6706    | 893   | 902   | 1.45  | 1.47  |           | 1      | 9842    | 1127  | 1079  | 3.25  | 3.11  |
|                      | 1.2    | 6386    | 929   | 949   | 1.51  | 1.55  |           | 1.2    | 9638    | 1155  | 1117  | 3.33  | 3.22  |
|                      | 1.4    | 6051    | 966   | 1005  | 1.57  | 1.64  |           | 1.4    | 9402    | 1179  | 1160  | 3.40  | 3.35  |
|                      | 1.6    | 5649    | 1018  | 1048  | 1.66  | 1.71  |           | 1.6    | 9176    | 1207  | 1199  | 3.48  | 3.46  |
|                      | 1.8    | 5322    | 1063  | 1079  | 1.73  | 1.76  |           | 1.8    | 8958    | 1236  | 1227  | 3.57  | 3.54  |
|                      | 2      | 5050    | 1102  | 1111  | 1.79  | 1.81  |           | 2      | 8760    | 1269  | 1255  | 3.66  | 3.62  |
| 2.2                  | 4712   | 1137    | 1146  | 1.85  | 1.87  | 2.2   | 8502      | 1302   | 1280    | 3.76  | 3.69  |       |       |
| T3                   | 0.2    | 9468    | 859   | 811   | 1.95  | 1.84  | T8        | 0.2    | 10979   | 1092  | 1017  | 3.41  | 3.17  |
|                      | 0.4    | 9181    | 894   | 850   | 2.03  | 1.93  |           | 0.4    | 10723   | 1116  | 1042  | 3.48  | 3.25  |
|                      | 0.6    | 8911    | 930   | 878   | 2.11  | 1.99  |           | 0.6    | 10544   | 1144  | 1062  | 3.57  | 3.31  |
|                      | 0.8    | 8724    | 966   | 925   | 2.19  | 2.10  |           | 0.8    | 10382   | 1168  | 1093  | 3.65  | 3.41  |
|                      | 1      | 8554    | 992   | 980   | 2.25  | 2.22  |           | 1      | 10209   | 1190  | 1123  | 3.71  | 3.51  |
|                      | 1.2    | 8298    | 1025  | 1027  | 2.33  | 2.33  |           | 1.2    | 10023   | 1216  | 1155  | 3.79  | 3.60  |
|                      | 1.4    | 8015    | 1054  | 1082  | 2.39  | 2.45  |           | 1.4    | 9804    | 1237  | 1191  | 3.86  | 3.72  |
|                      | 1.6    | 7718    | 1094  | 1128  | 2.48  | 2.56  |           | 1.6    | 9598    | 1261  | 1225  | 3.93  | 3.82  |
|                      | 1.8    | 7441    | 1133  | 1158  | 2.57  | 2.63  |           | 1.8    | 9406    | 1285  | 1252  | 4.01  | 3.91  |
|                      | 2      | 7210    | 1171  | 1189  | 2.66  | 2.70  |           | 2      | 9218    | 1314  | 1278  | 4.10  | 3.99  |
| 2.2                  | 6884   | 1209    | 1218  | 2.74  | 2.76  | 2.2   | 9000      | 1344   | 1301    | 4.19  | 4.06  |       |       |
| T4                   | 0.2    | 9881    | 909   | 854   | 2.24  | 2.11  | T9        | 0.2    | 11348   | 1185  | 1101  | 4.05  | 3.76  |
|                      | 0.4    | 9602    | 941   | 890   | 2.32  | 2.20  |           | 0.4    | 11101   | 1206  | 1120  | 4.11  | 3.82  |
|                      | 0.6    | 9353    | 976   | 915   | 2.41  | 2.26  |           | 0.6    | 10956   | 1230  | 1142  | 4.20  | 3.90  |
|                      | 0.8    | 9179    | 1008  | 959   | 2.49  | 2.37  |           | 0.8    | 10785   | 1250  | 1165  | 4.27  | 3.97  |
|                      | 1      | 9025    | 1032  | 1009  | 2.55  | 2.49  |           | 1      | 10567   | 1275  | 1183  | 4.35  | 4.04  |
|                      | 1.2    | 8787    | 1063  | 1055  | 2.62  | 2.60  |           | 1.2    | 10402   | 1298  | 1205  | 4.43  | 4.11  |
|                      | 1.4    | 8519    | 1090  | 1107  | 2.69  | 2.73  |           | 1.4    | 10203   | 1317  | 1230  | 4.49  | 4.20  |
|                      | 1.6    | 8248    | 1127  | 1151  | 2.78  | 2.84  |           | 1.6    | 10015   | 1335  | 1257  | 4.56  | 4.29  |
|                      | 1.8    | 7989    | 1163  | 1181  | 2.87  | 2.92  |           | 1.8    | 9858    | 1353  | 1281  | 4.62  | 4.37  |
|                      | 2      | 7770    | 1199  | 1211  | 2.96  | 2.99  |           | 2      | 9682    | 1376  | 1305  | 4.70  | 4.45  |
| 2.2                  | 7460   | 1237    | 1239  | 3.05  | 3.06  | 2.2   | 9524      | 1400   | 1326    | 4.78  | 4.52  |       |       |
| T5                   | 0.2    | 10259   | 962   | 901   | 2.57  | 2.41  | T10       | 0.2    | 11679   | 1301  | 1205  | 4.88  | 4.52  |
|                      | 0.4    | 9987    | 992   | 934   | 2.65  | 2.49  |           | 0.4    | 11444   | 1317  | 1219  | 4.94  | 4.57  |
|                      | 0.6    | 9759    | 1024  | 956   | 2.73  | 2.55  |           | 0.6    | 11337   | 1338  | 1246  | 5.02  | 4.67  |
|                      | 0.8    | 9594    | 1054  | 996   | 2.81  | 2.66  |           | 0.8    | 11145   | 1353  | 1257  | 5.07  | 4.71  |
|                      | 1      | 9446    | 1075  | 1041  | 2.87  | 2.78  |           | 1      | 10847   | 1386  | 1260  | 5.20  | 4.72  |
|                      | 1.2    | 9224    | 1105  | 1084  | 2.95  | 2.89  |           | 1.2    | 10703   | 1405  | 1267  | 5.27  | 4.75  |
|                      | 1.4    | 8972    | 1131  | 1132  | 3.02  | 3.02  |           | 1.4    | 10526   | 1421  | 1277  | 5.33  | 4.79  |
|                      | 1.6    | 8724    | 1163  | 1175  | 3.11  | 3.14  |           | 1.6    | 10353   | 1432  | 1291  | 5.37  | 4.84  |
|                      | 1.8    | 8484    | 1196  | 1203  | 3.19  | 3.21  |           | 1.8    | 10238   | 1441  | 1313  | 5.40  | 4.93  |
|                      | 2      | 8276    | 1231  | 1233  | 3.29  | 3.29  |           | 2      | 10074   | 1457  | 1333  | 5.47  | 5.00  |
| 2.2                  | 7988   | 1267    | 1259  | 3.38  | 3.36  | 2.2   | 10002     | 1473   | 1353    | 5.52  | 5.07  |       |       |

**NOTES:**

High static airflow requires installation of high static kit.  
 Air flow tables represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFG1803WL, DFG1804WL, DFG1807WL  
 STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      | 0.4  |      |      |      |      | 0.6  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 523  | 453  | 29   | 0.52 | 0.44 | 601  | 577  | 30   | 0.52 | 0.49 | 679  | 646  | 31   | 0.56 | 0.53 |
| 3900 | 545  | 472  | 29   | 0.50 | 0.42 | 621  | 586  | 30   | 0.52 | 0.48 | 695  | 655  | 31   | 0.57 | 0.53 |
| 4200 | 568  | 491  | 30   | 0.49 | 0.42 | 642  | 597  | 31   | 0.53 | 0.49 | 713  | 664  | 32   | 0.60 | 0.56 |
| 4500 | 592  | 510  | 31   | 0.49 | 0.42 | 662  | 608  | 32   | 0.55 | 0.51 | 730  | 674  | 34   | 0.64 | 0.59 |
| 4800 | 615  | 529  | 32   | 0.52 | 0.45 | 683  | 620  | 34   | 0.60 | 0.54 | 749  | 686  | 35   | 0.70 | 0.64 |
| 5100 | 639  | 549  | 33   | 0.56 | 0.48 | 705  | 633  | 35   | 0.66 | 0.59 | 768  | 697  | 37   | 0.78 | 0.71 |
| 5400 | 663  | 569  | 35   | 0.62 | 0.54 | 727  | 647  | 37   | 0.74 | 0.65 | 788  | 710  | 39   | 0.87 | 0.79 |
| 5700 | 688  | 589  | 37   | 0.70 | 0.60 | 750  | 661  | 39   | 0.83 | 0.73 | 808  | 724  | 41   | 0.98 | 0.88 |
| 6000 | 713  | 609  | 39   | 0.80 | 0.68 | 773  | 677  | 41   | 0.94 | 0.83 | 829  | 738  | 43   | 1.11 | 0.99 |
| 6300 | 738  | 630  | 41   | 0.91 | 0.78 | 796  | 693  | 44   | 1.07 | 0.94 | 851  | 753  | 46   | 1.25 | 1.11 |
| 6600 | 763  | 651  | 44   | 1.04 | 0.89 | 820  | 710  | 46   | 1.22 | 1.06 | 873  | 770  | 49   | 1.41 | 1.25 |
| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 754  | 733  | 32   | 0.63 | 0.61 | 820  | 789  | 33   | 0.70 | 0.68 | 876  | 850  | 35   | 0.80 | 0.80 |
| 3900 | 767  | 739  | 33   | 0.65 | 0.63 | 831  | 795  | 34   | 0.75 | 0.73 | 886  | 859  | 36   | 0.87 | 0.86 |
| 4200 | 781  | 746  | 34   | 0.70 | 0.67 | 842  | 803  | 36   | 0.81 | 0.78 | 897  | 868  | 38   | 0.94 | 0.93 |
| 4500 | 797  | 753  | 36   | 0.76 | 0.72 | 855  | 811  | 37   | 0.88 | 0.85 | 908  | 878  | 39   | 1.04 | 1.02 |
| 4800 | 812  | 762  | 37   | 0.84 | 0.79 | 868  | 819  | 39   | 0.97 | 0.93 | 921  | 887  | 41   | 1.14 | 1.11 |
| 5100 | 829  | 771  | 39   | 0.93 | 0.87 | 882  | 828  | 41   | 1.08 | 1.02 | 935  | 897  | 44   | 1.26 | 1.22 |
| 5400 | 847  | 782  | 41   | 1.03 | 0.96 | 898  | 838  | 43   | 1.20 | 1.12 | 949  | 907  | 46   | 1.39 | 1.33 |
| 5700 | 865  | 793  | 43   | 1.16 | 1.06 | 914  | 848  | 46   | 1.33 | 1.24 | 965  | 916  | 48   | 1.54 | 1.46 |
| 6000 | 884  | 805  | 46   | 1.30 | 1.18 | 932  | 859  | 48   | 1.48 | 1.37 | 981  | 926  | 51   | 1.70 | 1.60 |
| 6300 | 904  | 817  | 49   | 1.45 | 1.31 | 950  | 871  | 51   | 1.65 | 1.51 | 999  | 936  | 54   | 1.87 | 1.75 |
| 6600 | 924  | 831  | 52   | 1.62 | 1.46 | 969  | 883  | 54   | 1.83 | 1.66 | 1017 | 946  | 57   | 2.06 | 1.90 |

MODELS: DFG1803WL, DFG1804WL, DFG1807WL  
 HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      | 1.4  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 |      |      |      |      |      |      |      |      |      |      | 850  | 845  | 20   | 0.32 | 0.34 | 928  | 929  | 23   | 0.51 | 0.53 |
| 4500 |      |      |      |      |      |      |      |      |      |      | 876  | 864  | 22   | 0.41 | 0.43 | 949  | 943  | 25   | 0.61 | 0.61 |
| 4800 |      |      |      |      |      | 824  | 799  | 21   | 0.32 | 0.33 | 901  | 883  | 24   | 0.52 | 0.52 | 970  | 958  | 26   | 0.71 | 0.71 |
| 5100 | 786  | 753  | 20   | 0.28 | 0.29 | 854  | 824  | 23   | 0.44 | 0.44 | 926  | 903  | 26   | 0.63 | 0.63 | 991  | 973  | 28   | 0.82 | 0.81 |
| 5400 | 818  | 781  | 22   | 0.40 | 0.40 | 883  | 848  | 25   | 0.57 | 0.56 | 950  | 921  | 28   | 0.76 | 0.74 | 1011 | 987  | 31   | 0.95 | 0.93 |
| 5700 | 850  | 808  | 25   | 0.54 | 0.52 | 911  | 872  | 28   | 0.71 | 0.68 | 973  | 940  | 30   | 0.89 | 0.86 | 1031 | 1002 | 33   | 1.08 | 1.05 |
| 6000 | 880  | 834  | 27   | 0.68 | 0.65 | 938  | 895  | 30   | 0.85 | 0.82 | 996  | 958  | 33   | 1.04 | 1.00 | 1051 | 1016 | 35   | 1.22 | 1.18 |
| 6300 | 909  | 859  | 30   | 0.83 | 0.78 | 965  | 918  | 33   | 1.01 | 0.96 | 1019 | 976  | 35   | 1.19 | 1.14 | 1070 | 1031 | 37   | 1.38 | 1.32 |
| 6600 | 938  | 884  | 33   | 0.99 | 0.93 | 990  | 940  | 35   | 1.17 | 1.11 | 1041 | 994  | 38   | 1.35 | 1.29 | 1089 | 1046 | 40   | 1.54 | 1.48 |
| CFM  | 1.6  |      |      |      |      | 1.8  |      |      |      |      | 2    |      |      |      |      | 2.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 | 1010 | 989  | 26   | 0.71 | 0.70 | 1076 | 1049 | 28   | 0.89 | 0.87 | 1124 | 1092 | 30   | 1.04 | 1.01 | 1173 | 1161 | 33   | 1.22 | 1.21 |
| 4500 | 1025 | 1002 | 27   | 0.80 | 0.78 | 1088 | 1060 | 30   | 0.99 | 0.96 | 1134 | 1103 | 32   | 1.13 | 1.10 | 1183 | 1167 | 34   | 1.32 | 1.31 |
| 4800 | 1041 | 1015 | 29   | 0.90 | 0.88 | 1100 | 1072 | 32   | 1.09 | 1.06 | 1145 | 1113 | 34   | 1.24 | 1.21 | 1193 | 1173 | 36   | 1.43 | 1.41 |
| 5100 | 1056 | 1028 | 31   | 1.01 | 0.99 | 1113 | 1083 | 33   | 1.20 | 1.17 | 1157 | 1124 | 35   | 1.36 | 1.32 | 1203 | 1180 | 38   | 1.55 | 1.52 |
| 5400 | 1072 | 1041 | 33   | 1.13 | 1.10 | 1125 | 1094 | 35   | 1.33 | 1.29 | 1168 | 1135 | 37   | 1.49 | 1.45 | 1213 | 1187 | 40   | 1.68 | 1.65 |
| 5700 | 1088 | 1054 | 35   | 1.27 | 1.23 | 1138 | 1106 | 37   | 1.46 | 1.42 | 1180 | 1146 | 39   | 1.63 | 1.58 | 1224 | 1194 | 42   | 1.82 | 1.78 |
| 6000 | 1103 | 1067 | 37   | 1.41 | 1.36 | 1151 | 1117 | 40   | 1.61 | 1.56 | 1192 | 1156 | 41   | 1.78 | 1.73 | 1235 | 1201 | 44   | 1.98 | 1.93 |
| 6300 | 1119 | 1080 | 40   | 1.56 | 1.51 | 1164 | 1128 | 42   | 1.76 | 1.71 | 1205 | 1167 | 44   | 1.94 | 1.88 | 1246 | 1209 | 46   | 2.14 | 2.08 |
| 6600 | 1135 | 1093 | 42   | 1.73 | 1.66 | 1178 | 1139 | 44   | 1.93 | 1.87 | 1217 | 1178 | 46   | 2.11 | 2.04 | 1257 | 1217 | 48   | 2.32 | 2.25 |

## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFG1803DM, DFG1803DH, DFG1804DM, DFG1804DH, DFG1807DM, DFG1807DH  
 STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      | 0.4  |      |      |      |      | 0.6  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 523  | 453  | 29   | 0.52 | 0.44 | 601  | 577  | 30   | 0.52 | 0.49 | 679  | 646  | 31   | 0.56 | 0.53 |
| 3900 | 545  | 472  | 29   | 0.50 | 0.42 | 621  | 586  | 30   | 0.52 | 0.48 | 695  | 655  | 31   | 0.57 | 0.53 |
| 4200 | 568  | 491  | 30   | 0.49 | 0.42 | 642  | 597  | 31   | 0.53 | 0.49 | 713  | 664  | 32   | 0.60 | 0.56 |
| 4500 | 592  | 510  | 31   | 0.49 | 0.42 | 662  | 608  | 32   | 0.55 | 0.51 | 730  | 674  | 34   | 0.64 | 0.59 |
| 4800 | 615  | 529  | 32   | 0.52 | 0.45 | 683  | 620  | 34   | 0.60 | 0.54 | 749  | 686  | 35   | 0.70 | 0.64 |
| 5100 | 639  | 549  | 33   | 0.56 | 0.48 | 705  | 633  | 35   | 0.66 | 0.59 | 768  | 697  | 37   | 0.78 | 0.71 |
| 5400 | 663  | 569  | 35   | 0.62 | 0.54 | 727  | 647  | 37   | 0.74 | 0.65 | 788  | 710  | 39   | 0.87 | 0.79 |
| 5700 | 688  | 589  | 37   | 0.70 | 0.60 | 750  | 661  | 39   | 0.83 | 0.73 | 808  | 724  | 41   | 0.98 | 0.88 |
| 6000 | 713  | 609  | 39   | 0.80 | 0.68 | 773  | 677  | 41   | 0.94 | 0.83 | 829  | 738  | 43   | 1.11 | 0.99 |
| 6300 | 738  | 630  | 41   | 0.91 | 0.78 | 796  | 693  | 44   | 1.07 | 0.94 | 851  | 753  | 46   | 1.25 | 1.11 |
| 6600 | 763  | 651  | 44   | 1.04 | 0.89 | 820  | 710  | 46   | 1.22 | 1.06 | 873  | 770  | 49   | 1.41 | 1.25 |
| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 754  | 733  | 32   | 0.63 | 0.61 | 820  | 789  | 33   | 0.70 | 0.68 | 876  | 850  | 35   | 0.80 | 0.80 |
| 3900 | 767  | 739  | 33   | 0.65 | 0.63 | 831  | 795  | 34   | 0.75 | 0.73 | 886  | 859  | 36   | 0.87 | 0.86 |
| 4200 | 781  | 746  | 34   | 0.70 | 0.67 | 842  | 803  | 36   | 0.81 | 0.78 | 897  | 868  | 38   | 0.94 | 0.93 |
| 4500 | 797  | 753  | 36   | 0.76 | 0.72 | 855  | 811  | 37   | 0.88 | 0.85 | 908  | 878  | 39   | 1.04 | 1.02 |
| 4800 | 812  | 762  | 37   | 0.84 | 0.79 | 868  | 819  | 39   | 0.97 | 0.93 | 921  | 887  | 41   | 1.14 | 1.11 |
| 5100 | 829  | 771  | 39   | 0.93 | 0.87 | 882  | 828  | 41   | 1.08 | 1.02 | 935  | 897  | 44   | 1.26 | 1.22 |
| 5400 | 847  | 782  | 41   | 1.03 | 0.96 | 898  | 838  | 43   | 1.20 | 1.12 | 949  | 907  | 46   | 1.39 | 1.33 |
| 5700 | 865  | 793  | 43   | 1.16 | 1.06 | 914  | 848  | 46   | 1.33 | 1.24 | 965  | 916  | 48   | 1.54 | 1.46 |
| 6000 | 884  | 805  | 46   | 1.30 | 1.18 | 932  | 859  | 48   | 1.48 | 1.37 | 981  | 926  | 51   | 1.70 | 1.60 |
| 6300 | 904  | 817  | 49   | 1.45 | 1.31 | 950  | 871  | 51   | 1.65 | 1.51 | 999  | 936  | 54   | 1.87 | 1.75 |
| 6600 | 924  | 831  | 52   | 1.62 | 1.46 | 969  | 883  | 54   | 1.83 | 1.66 | 1017 | 946  | 57   | 2.06 | 1.90 |

MODELS: DFG1803WM, DFG1803WH, DFG1804WM, DFG1804WH, DFG1807WM, DFG1807WH  
 HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      | 1.4  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 |      |      |      |      |      |      |      |      |      |      | 850  | 845  | 20   | 0.32 | 0.34 | 928  | 929  | 23   | 0.51 | 0.53 |
| 4500 |      |      |      |      |      |      |      |      |      |      | 876  | 864  | 22   | 0.41 | 0.43 | 949  | 943  | 25   | 0.61 | 0.61 |
| 4800 |      |      |      |      |      | 824  | 799  | 21   | 0.32 | 0.33 | 901  | 883  | 24   | 0.52 | 0.52 | 970  | 958  | 26   | 0.71 | 0.71 |
| 5100 | 786  | 753  | 20   | 0.28 | 0.29 | 854  | 824  | 23   | 0.44 | 0.44 | 926  | 903  | 26   | 0.63 | 0.63 | 991  | 973  | 28   | 0.82 | 0.81 |
| 5400 | 818  | 781  | 22   | 0.40 | 0.40 | 883  | 848  | 25   | 0.57 | 0.56 | 950  | 921  | 28   | 0.76 | 0.74 | 1011 | 987  | 31   | 0.95 | 0.93 |
| 5700 | 850  | 808  | 25   | 0.54 | 0.52 | 911  | 872  | 28   | 0.71 | 0.68 | 973  | 940  | 30   | 0.89 | 0.86 | 1031 | 1002 | 33   | 1.08 | 1.05 |
| 6000 | 880  | 834  | 27   | 0.68 | 0.65 | 938  | 895  | 30   | 0.85 | 0.82 | 996  | 958  | 33   | 1.04 | 1.00 | 1051 | 1016 | 35   | 1.22 | 1.18 |
| 6300 | 909  | 859  | 30   | 0.83 | 0.78 | 965  | 918  | 33   | 1.01 | 0.96 | 1019 | 976  | 35   | 1.19 | 1.14 | 1070 | 1031 | 37   | 1.38 | 1.32 |
| 6600 | 938  | 884  | 33   | 0.99 | 0.93 | 990  | 940  | 35   | 1.17 | 1.11 | 1041 | 994  | 38   | 1.35 | 1.29 | 1089 | 1046 | 40   | 1.54 | 1.48 |
| CFM  | 1.6  |      |      |      |      | 1.8  |      |      |      |      | 2    |      |      |      |      | 2.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 | 1010 | 989  | 26   | 0.71 | 0.70 | 1076 | 1049 | 28   | 0.89 | 0.87 | 1124 | 1092 | 30   | 1.04 | 1.01 | 1173 | 1161 | 33   | 1.22 | 1.21 |
| 4500 | 1025 | 1002 | 27   | 0.80 | 0.78 | 1088 | 1060 | 30   | 0.99 | 0.96 | 1134 | 1103 | 32   | 1.13 | 1.10 | 1183 | 1167 | 34   | 1.32 | 1.31 |
| 4800 | 1041 | 1015 | 29   | 0.90 | 0.88 | 1100 | 1072 | 32   | 1.09 | 1.06 | 1145 | 1113 | 34   | 1.24 | 1.21 | 1193 | 1173 | 36   | 1.43 | 1.41 |
| 5100 | 1056 | 1028 | 31   | 1.01 | 0.99 | 1113 | 1083 | 33   | 1.20 | 1.17 | 1157 | 1124 | 35   | 1.36 | 1.32 | 1203 | 1180 | 38   | 1.55 | 1.52 |
| 5400 | 1072 | 1041 | 33   | 1.13 | 1.10 | 1125 | 1094 | 35   | 1.33 | 1.29 | 1168 | 1135 | 37   | 1.49 | 1.45 | 1213 | 1187 | 40   | 1.68 | 1.65 |
| 5700 | 1088 | 1054 | 35   | 1.27 | 1.23 | 1138 | 1106 | 37   | 1.46 | 1.42 | 1180 | 1146 | 39   | 1.63 | 1.58 | 1224 | 1194 | 42   | 1.82 | 1.78 |
| 6000 | 1103 | 1067 | 37   | 1.41 | 1.36 | 1151 | 1117 | 40   | 1.61 | 1.56 | 1192 | 1156 | 41   | 1.78 | 1.73 | 1235 | 1201 | 44   | 1.98 | 1.93 |
| 6300 | 1119 | 1080 | 40   | 1.56 | 1.51 | 1164 | 1128 | 42   | 1.76 | 1.71 | 1205 | 1167 | 44   | 1.94 | 1.88 | 1246 | 1209 | 46   | 2.14 | 2.08 |
| 6600 | 1135 | 1093 | 42   | 1.73 | 1.66 | 1178 | 1139 | 44   | 1.93 | 1.87 | 1217 | 1178 | 46   | 2.11 | 2.04 | 1257 | 1217 | 48   | 2.32 | 2.25 |

## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFC1803D, DFC1804D, DFC1807D  
STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      | 0.4  |      |      |      |      | 0.6  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 449  | 462  | 27   | 0.36 | 0.38 | 554  | 551  | 29   | 0.41 | 0.41 | 667  | 640  | 31   | 0.52 | 0.50 |
| 3900 | 468  | 480  | 28   | 0.36 | 0.37 | 568  | 568  | 30   | 0.43 | 0.43 | 674  | 652  | 32   | 0.54 | 0.52 |
| 4200 | 486  | 499  | 29   | 0.37 | 0.38 | 583  | 584  | 31   | 0.45 | 0.46 | 682  | 665  | 33   | 0.58 | 0.56 |
| 4500 | 505  | 518  | 30   | 0.39 | 0.40 | 598  | 601  | 32   | 0.49 | 0.50 | 691  | 678  | 34   | 0.63 | 0.61 |
| 4800 | 523  | 537  | 32   | 0.42 | 0.44 | 613  | 618  | 34   | 0.54 | 0.55 | 700  | 692  | 36   | 0.69 | 0.68 |
| 5100 | 542  | 556  | 33   | 0.47 | 0.48 | 628  | 635  | 35   | 0.60 | 0.61 | 710  | 706  | 38   | 0.76 | 0.75 |
| 5400 | 561  | 575  | 35   | 0.52 | 0.54 | 644  | 652  | 37   | 0.67 | 0.68 | 721  | 721  | 40   | 0.84 | 0.84 |
| 5700 | 579  | 595  | 37   | 0.59 | 0.60 | 660  | 670  | 39   | 0.76 | 0.77 | 733  | 736  | 42   | 0.93 | 0.94 |
| 6000 | 598  | 614  | 39   | 0.67 | 0.68 | 676  | 687  | 42   | 0.85 | 0.86 | 745  | 751  | 44   | 1.04 | 1.05 |
| 6300 | 617  | 634  | 41   | 0.76 | 0.77 | 693  | 705  | 44   | 0.96 | 0.97 | 758  | 767  | 47   | 1.15 | 1.17 |
| 6600 | 636  | 653  | 43   | 0.86 | 0.88 | 709  | 724  | 47   | 1.07 | 1.09 | 772  | 784  | 50   | 1.28 | 1.30 |
| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 3600 | 758  | 745  | 36   | 0.76 | 0.75 | 798  | 784  | 34   | 0.74 | 0.71 | 861  | 855  | 37   | 0.90 | 0.87 |
| 3900 | 756  | 742  | 36   | 0.74 | 0.73 | 808  | 791  | 36   | 0.80 | 0.77 | 872  | 861  | 38   | 0.98 | 0.95 |
| 4200 | 756  | 741  | 36   | 0.74 | 0.72 | 817  | 800  | 37   | 0.87 | 0.84 | 883  | 868  | 40   | 1.06 | 1.03 |
| 4500 | 758  | 742  | 36   | 0.76 | 0.74 | 827  | 809  | 39   | 0.94 | 0.91 | 893  | 876  | 42   | 1.15 | 1.12 |
| 4800 | 761  | 745  | 37   | 0.79 | 0.77 | 836  | 819  | 41   | 1.03 | 1.00 | 904  | 884  | 44   | 1.25 | 1.22 |
| 5100 | 765  | 750  | 38   | 0.84 | 0.82 | 846  | 829  | 43   | 1.13 | 1.10 | 913  | 892  | 46   | 1.36 | 1.33 |
| 5400 | 772  | 758  | 39   | 0.91 | 0.89 | 856  | 840  | 45   | 1.23 | 1.21 | 923  | 902  | 49   | 1.48 | 1.44 |
| 5700 | 779  | 767  | 41   | 0.99 | 0.98 | 866  | 852  | 48   | 1.35 | 1.33 | 932  | 912  | 51   | 1.60 | 1.57 |
| 6000 | 789  | 778  | 43   | 1.10 | 1.09 | 875  | 865  | 50   | 1.47 | 1.46 | 941  | 922  | 54   | 1.73 | 1.71 |
| 6300 | 800  | 792  | 46   | 1.22 | 1.22 | 885  | 878  | 53   | 1.61 | 1.61 | 949  | 934  | 57   | 1.87 | 1.86 |
| 6600 | 812  | 807  | 48   | 1.36 | 1.36 | 895  | 892  | 56   | 1.75 | 1.76 | 957  | 946  | 60   | 2.02 | 2.01 |

MODELS: DFC1803W, DFC1804W, DFC1807W  
HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      | 1.4  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 |      |      |      |      |      | 761  | 770  | 20   | 1.89 | 0.54 | 836  | 838  | 22   | 1.77 | 0.60 | 994  | 948  | 27   | 2.26 | 0.81 |
| 4500 |      |      |      |      |      | 774  | 782  | 21   | 1.87 | 0.54 | 846  | 847  | 23   | 1.76 | 0.61 | 990  | 949  | 28   | 2.25 | 0.82 |
| 4800 |      |      |      |      |      | 787  | 793  | 22   | 1.86 | 0.55 | 857  | 857  | 24   | 1.74 | 0.63 | 987  | 951  | 29   | 2.23 | 0.84 |
| 5100 | 736  | 735  | 21   | 1.68 | 0.44 | 801  | 805  | 23   | 1.85 | 0.57 | 868  | 867  | 26   | 1.73 | 0.67 | 985  | 955  | 30   | 2.22 | 0.87 |
| 5400 | 752  | 751  | 22   | 1.67 | 0.47 | 814  | 818  | 25   | 1.83 | 0.61 | 879  | 878  | 27   | 1.72 | 0.72 | 985  | 959  | 31   | 2.21 | 0.92 |
| 5700 | 768  | 767  | 24   | 1.66 | 0.52 | 829  | 831  | 27   | 1.82 | 0.66 | 891  | 889  | 29   | 1.71 | 0.78 | 986  | 965  | 32   | 2.19 | 0.99 |
| 6000 | 785  | 783  | 26   | 1.65 | 0.58 | 843  | 844  | 28   | 1.81 | 0.72 | 903  | 901  | 31   | 1.70 | 0.86 | 989  | 971  | 34   | 2.18 | 1.07 |
| 6300 | 801  | 799  | 28   | 1.63 | 0.66 | 858  | 858  | 30   | 1.79 | 0.80 | 916  | 913  | 33   | 1.68 | 0.96 | 992  | 978  | 36   | 2.16 | 1.16 |
| 6600 | 818  | 816  | 30   | 1.62 | 0.75 | 873  | 872  | 32   | 1.78 | 0.90 | 929  | 926  | 35   | 1.67 | 1.06 | 998  | 986  | 38   | 2.15 | 1.27 |
| CFM  | 1.6  |      |      |      |      | 1.8  |      |      |      |      | 2    |      |      |      |      | 2.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4200 | 1025 | 1009 | 29   | 1.82 | 0.90 | 1070 | 1049 | 30   | 1.36 | 0.99 | 1114 | 1095 | 32   | 1.10 | 1.13 | 1164 | 1140 | 34   | 0.77 | 1.29 |
| 4500 | 1024 | 1009 | 30   | 1.81 | 0.93 | 1073 | 1051 | 31   | 1.35 | 1.04 | 1119 | 1098 | 34   | 1.10 | 1.20 | 1170 | 1145 | 36   | 0.77 | 1.39 |
| 4800 | 1025 | 1010 | 31   | 1.79 | 0.97 | 1076 | 1054 | 33   | 1.34 | 1.11 | 1124 | 1101 | 35   | 1.09 | 1.28 | 1177 | 1150 | 38   | 0.77 | 1.49 |
| 5100 | 1027 | 1013 | 32   | 1.78 | 1.02 | 1080 | 1058 | 34   | 1.34 | 1.18 | 1129 | 1106 | 37   | 1.09 | 1.37 | 1183 | 1155 | 40   | 0.77 | 1.60 |
| 5400 | 1029 | 1016 | 33   | 1.77 | 1.09 | 1085 | 1062 | 36   | 1.33 | 1.27 | 1135 | 1111 | 38   | 1.09 | 1.47 | 1190 | 1161 | 41   | 0.77 | 1.72 |
| 5700 | 1033 | 1020 | 35   | 1.76 | 1.17 | 1090 | 1067 | 38   | 1.32 | 1.37 | 1141 | 1116 | 40   | 1.08 | 1.59 | 1196 | 1167 | 43   | 0.77 | 1.85 |
| 6000 | 1037 | 1025 | 37   | 1.75 | 1.26 | 1096 | 1073 | 40   | 1.32 | 1.49 | 1147 | 1122 | 42   | 1.08 | 1.71 | 1203 | 1173 | 45   | 0.77 | 1.98 |
| 6300 | 1043 | 1031 | 39   | 1.74 | 1.37 | 1102 | 1080 | 42   | 1.31 | 1.61 | 1153 | 1129 | 44   | 1.07 | 1.84 | 1209 | 1180 | 48   | 0.77 | 2.13 |
| 6600 | 1049 | 1038 | 41   | 1.73 | 1.50 | 1109 | 1088 | 44   | 1.30 | 1.75 | 1160 | 1136 | 47   | 1.07 | 1.99 | 1216 | 1187 | 50   | 0.76 | 2.29 |



## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFG2403WL, DFG2404WL, DFG2407WL  
 STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      |  | 0.4  |      |      |      |      |  | 0.6  |      |      |      |      |  |
|------|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 4800 | 638  | 574  | 31   | 0.47 | 0.42 |  | 710  | 648  | 33   | 0.59 | 0.53 |  | 774  | 716  | 34   | 0.70 | 0.65 |  |
| 5200 | 677  | 607  | 33   | 0.58 | 0.52 |  | 743  | 676  | 35   | 0.71 | 0.64 |  | 743  | 676  | 37   | 0.84 | 0.77 |  |
| 5600 | 715  | 640  | 36   | 0.72 | 0.64 |  | 777  | 704  | 38   | 0.85 | 0.77 |  | 777  | 704  | 40   | 0.99 | 0.91 |  |
| 6000 | 753  | 672  | 39   | 0.87 | 0.77 |  | 811  | 733  | 41   | 1.02 | 0.92 |  | 811  | 733  | 43   | 1.16 | 1.06 |  |
| 6400 | 791  | 705  | 42   | 1.04 | 0.92 |  | 846  | 762  | 45   | 1.20 | 1.08 |  | 846  | 762  | 47   | 1.36 | 1.24 |  |
| 6800 | 828  | 737  | 46   | 1.23 | 1.09 |  | 880  | 791  | 48   | 1.40 | 1.26 |  | 880  | 791  | 50   | 1.57 | 1.43 |  |
| 7200 | 865  | 770  | 50   | 1.43 | 1.28 |  | 915  | 821  | 52   | 1.63 | 1.46 |  | 915  | 821  | 54   | 1.80 | 1.63 |  |
| 7600 | 902  | 802  | 54   | 1.66 | 1.48 |  | 950  | 852  | 56   | 1.87 | 1.68 |  | 950  | 852  | 58   | 2.05 | 1.86 |  |
| 8000 | 938  | 834  | 58   | 1.91 | 1.70 |  | 985  | 883  | 60   | 2.13 | 1.91 |  | 985  | 883  | 62   | 2.32 | 2.10 |  |
| 8400 | 974  | 866  | 62   | 2.18 | 1.94 |  | 1020 | 914  | 65   | 2.41 | 2.16 |  | 1020 | 914  | 67   | 2.61 | 2.36 |  |
| 8800 | 1010 | 898  | 66   | 2.47 | 2.20 |  | 1055 | 946  | 69   | 2.71 | 2.43 |  | 1055 | 946  | 72   | 2.92 | 2.64 |  |
| CFM  | 0.8  |      |      |      |      |  | 1    |      |      |      |      |  | 1.2  |      |      |      |      |  |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 4800 | 831  | 778  | 36   | 0.83 | 0.78 |  | 883  | 831  | 38   | 0.96 | 0.91 |  | 933  | 879  | 40   | 1.11 | 1.05 |  |
| 5200 | 857  | 797  | 39   | 0.97 | 0.91 |  | 907  | 849  | 41   | 1.12 | 1.05 |  | 956  | 897  | 43   | 1.27 | 1.20 |  |
| 5600 | 884  | 818  | 42   | 1.14 | 1.05 |  | 932  | 868  | 44   | 1.29 | 1.20 |  | 980  | 916  | 46   | 1.46 | 1.36 |  |
| 6000 | 912  | 840  | 45   | 1.32 | 1.22 |  | 958  | 888  | 47   | 1.48 | 1.38 |  | 1005 | 936  | 49   | 1.66 | 1.54 |  |
| 6400 | 940  | 863  | 49   | 1.52 | 1.40 |  | 985  | 910  | 51   | 1.69 | 1.57 |  | 1031 | 957  | 53   | 1.88 | 1.74 |  |
| 6800 | 970  | 888  | 52   | 1.74 | 1.60 |  | 1013 | 934  | 54   | 1.92 | 1.77 |  | 1059 | 979  | 56   | 2.11 | 1.96 |  |
| 7200 | 1001 | 914  | 56   | 1.98 | 1.81 |  | 1043 | 958  | 58   | 2.17 | 1.99 |  | 1087 | 1003 | 60   | 2.37 | 2.18 |  |
| 7600 | 1033 | 941  | 60   | 2.24 | 2.04 |  | 1074 | 984  | 62   | 2.43 | 2.23 |  | 1116 | 1028 | 65   | 2.64 | 2.43 |  |
| 8000 | 1066 | 969  | 64   | 2.52 | 2.29 |  | 1106 | 1011 | 67   | 2.72 | 2.48 |  | 1146 | 1053 | 69   | 2.93 | 2.69 |  |
| 8400 | 1100 | 999  | 69   | 2.82 | 2.56 |  | 1139 | 1040 | 71   | 3.02 | 2.75 |  | 1177 | 1080 | 73   | 3.23 | 2.97 |  |
| 8800 | 1135 | 1030 | 74   | 3.13 | 2.84 |  |      |      |      |      |      |  |      |      |      |      |      |  |

MODELS: DFG2403WL, DFG2404WL, DFG2407WL  
 HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      |  | 1    |      |      |      |      |  | 1.2  |      |      |      |      |  | 1.4  |      |      |      |      |  |
|------|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 5600 | 881  | 830  | 35   | 0.98 | 0.93 |  | 937  | 886  | 36   | 1.12 | 1.06 |  | 990  | 947  | 38   | 1.26 | 1.21 |  | 1039 | 1000 | 39   | 1.41 | 1.37 |  |
| 6000 | 907  | 849  | 37   | 1.11 | 1.03 |  | 960  | 905  | 38   | 1.25 | 1.18 |  | 1012 | 965  | 40   | 1.41 | 1.35 |  | 1060 | 1016 | 41   | 1.57 | 1.51 |  |
| 6400 | 934  | 869  | 39   | 1.25 | 1.16 |  | 985  | 924  | 40   | 1.40 | 1.31 |  | 1034 | 984  | 42   | 1.57 | 1.49 |  | 1082 | 1033 | 44   | 1.74 | 1.66 |  |
| 6800 | 962  | 890  | 41   | 1.41 | 1.30 |  | 1010 | 944  | 43   | 1.57 | 1.47 |  | 1058 | 1003 | 45   | 1.75 | 1.66 |  | 1104 | 1050 | 46   | 1.93 | 1.83 |  |
| 7200 | 991  | 913  | 44   | 1.59 | 1.47 |  | 1037 | 966  | 45   | 1.76 | 1.64 |  | 1083 | 1023 | 47   | 1.95 | 1.84 |  | 1128 | 1068 | 49   | 2.14 | 2.02 |  |
| 7600 | 1020 | 936  | 47   | 1.79 | 1.65 |  | 1064 | 988  | 48   | 1.97 | 1.83 |  | 1109 | 1044 | 50   | 2.17 | 2.03 |  | 1152 | 1087 | 52   | 2.36 | 2.22 |  |
| 8000 | 1050 | 960  | 50   | 2.02 | 1.85 |  | 1092 | 1010 | 51   | 2.20 | 2.03 |  | 1135 | 1065 | 53   | 2.40 | 2.24 |  | 1178 | 1106 | 55   | 2.60 | 2.44 |  |
| 8400 | 1080 | 986  | 53   | 2.26 | 2.07 |  | 1121 | 1034 | 54   | 2.45 | 2.26 |  | 1163 | 1086 | 56   | 2.66 | 2.47 |  | 1204 | 1126 | 58   | 2.86 | 2.67 |  |
| 8800 | 1112 | 1012 | 56   | 2.53 | 2.30 |  | 1151 | 1059 | 58   | 2.72 | 2.50 |  | 1191 | 1108 | 60   | 2.93 | 2.71 |  |      |      |      |      |      |  |
| CFM  | 1.6  |      |      |      |      |  | 1.8  |      |      |      |      |  | 2    |      |      |      |      |  | 2.2  |      |      |      |      |  |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 5600 | 1088 | 1050 | 41   | 1.58 | 1.53 |  | 1136 | 1099 | 42   | 1.74 | 1.69 |  | 1182 | 1143 | 44   | 1.91 | 1.85 |  | 1227 | 1186 | 46   | 2.09 | 2.03 |  |
| 6000 | 1109 | 1065 | 43   | 1.74 | 1.68 |  | 1156 | 1113 | 45   | 1.91 | 1.84 |  | 1202 | 1158 | 46   | 2.09 | 2.02 |  | 1246 | 1201 | 48   | 2.28 | 2.20 |  |
| 6400 | 1130 | 1081 | 46   | 1.92 | 1.84 |  | 1176 | 1128 | 47   | 2.10 | 2.01 |  | 1222 | 1173 | 49   | 2.29 | 2.20 |  | 1265 | 1216 | 50   | 2.48 | 2.39 |  |
| 6800 | 1152 | 1097 | 48   | 2.12 | 2.02 |  | 1197 | 1143 | 50   | 2.30 | 2.20 |  | 1243 | 1188 | 51   | 2.50 | 2.39 |  | 1285 | 1231 | 53   | 2.70 | 2.59 |  |
| 7200 | 1174 | 1114 | 51   | 2.33 | 2.22 |  | 1219 | 1159 | 52   | 2.52 | 2.39 |  | 1263 | 1203 | 54   | 2.72 | 2.59 |  | 1304 | 1246 | 56   | 2.93 | 2.80 |  |
| 7600 | 1198 | 1132 | 54   | 2.56 | 2.42 |  | 1241 | 1175 | 55   | 2.75 | 2.60 |  | 1284 | 1218 | 57   | 2.96 | 2.81 |  | 1323 | 1261 | 59   | 3.17 | 3.02 |  |
| 8000 | 1222 | 1150 | 57   | 2.81 | 2.64 |  | 1263 | 1191 | 58   | 3.00 | 2.83 |  | 1305 | 1234 | 60   | 3.21 | 3.04 |  | 1343 | 1276 | 62   | 3.43 | 3.26 |  |
| 8400 | 1246 | 1169 | 60   | 3.07 | 2.88 |  | 1286 | 1208 | 61   | 3.27 | 3.06 |  |      |      |      |      |      |  |      |      |      |      |      |  |
| 8800 |      |      |      |      |      |  |      |      |      |      |      |  |      |      |      |      |      |  |      |      |      |      |      |  |

## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFG2403DM, DFG2403DH, DFG2404DM, DFG2404DH, DFG2407DM, DFG2407DH

STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      |  | 0.4  |      |      |      |      |  | 0.6  |      |      |      |      |  |
|------|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 4800 | 638  | 574  | 31   | 0.47 | 0.42 |  | 710  | 648  | 33   | 0.59 | 0.53 |  | 774  | 716  | 34   | 0.70 | 0.65 |  |
| 5200 | 677  | 607  | 33   | 0.58 | 0.52 |  | 743  | 676  | 35   | 0.71 | 0.64 |  | 743  | 676  | 37   | 0.84 | 0.77 |  |
| 5600 | 715  | 640  | 36   | 0.72 | 0.64 |  | 777  | 704  | 38   | 0.85 | 0.77 |  | 777  | 704  | 40   | 0.99 | 0.91 |  |
| 6000 | 753  | 672  | 39   | 0.87 | 0.77 |  | 811  | 733  | 41   | 1.02 | 0.92 |  | 811  | 733  | 43   | 1.16 | 1.06 |  |
| 6400 | 791  | 705  | 42   | 1.04 | 0.92 |  | 846  | 762  | 45   | 1.20 | 1.08 |  | 846  | 762  | 47   | 1.36 | 1.24 |  |
| 6800 | 828  | 737  | 46   | 1.23 | 1.09 |  | 880  | 791  | 48   | 1.40 | 1.26 |  | 880  | 791  | 50   | 1.57 | 1.43 |  |
| 7200 | 865  | 770  | 50   | 1.43 | 1.28 |  | 915  | 821  | 52   | 1.63 | 1.46 |  | 915  | 821  | 54   | 1.80 | 1.63 |  |
| 7600 | 902  | 802  | 54   | 1.66 | 1.48 |  | 950  | 852  | 56   | 1.87 | 1.68 |  | 950  | 852  | 58   | 2.05 | 1.86 |  |
| 8000 | 938  | 834  | 58   | 1.91 | 1.70 |  | 985  | 883  | 60   | 2.13 | 1.91 |  | 985  | 883  | 62   | 2.32 | 2.10 |  |
| 8400 | 974  | 866  | 62   | 2.18 | 1.94 |  | 1020 | 914  | 65   | 2.41 | 2.16 |  | 1020 | 914  | 67   | 2.61 | 2.36 |  |
| 8800 | 1010 | 898  | 66   | 2.47 | 2.20 |  | 1055 | 946  | 69   | 2.71 | 2.43 |  | 1055 | 946  | 72   | 2.92 | 2.64 |  |
| CFM  | 0.8  |      |      |      |      |  | 1    |      |      |      |      |  | 1.2  |      |      |      |      |  |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 4800 | 831  | 778  | 36   | 0.83 | 0.78 |  | 883  | 831  | 38   | 0.96 | 0.91 |  | 933  | 879  | 40   | 1.11 | 1.05 |  |
| 5200 | 857  | 797  | 39   | 0.97 | 0.91 |  | 907  | 849  | 41   | 1.12 | 1.05 |  | 956  | 897  | 43   | 1.27 | 1.20 |  |
| 5600 | 884  | 818  | 42   | 1.14 | 1.05 |  | 932  | 868  | 44   | 1.29 | 1.20 |  | 980  | 916  | 46   | 1.46 | 1.36 |  |
| 6000 | 912  | 840  | 45   | 1.32 | 1.22 |  | 958  | 888  | 47   | 1.48 | 1.38 |  | 1005 | 936  | 49   | 1.66 | 1.54 |  |
| 6400 | 940  | 863  | 49   | 1.52 | 1.40 |  | 985  | 910  | 51   | 1.69 | 1.57 |  | 1031 | 957  | 53   | 1.88 | 1.74 |  |
| 6800 | 970  | 888  | 52   | 1.74 | 1.60 |  | 1013 | 934  | 54   | 1.92 | 1.77 |  | 1059 | 979  | 56   | 2.11 | 1.96 |  |
| 7200 | 1001 | 914  | 56   | 1.98 | 1.81 |  | 1043 | 958  | 58   | 2.17 | 1.99 |  | 1087 | 1003 | 60   | 2.37 | 2.18 |  |
| 7600 | 1033 | 941  | 60   | 2.24 | 2.04 |  | 1074 | 984  | 62   | 2.43 | 2.23 |  | 1116 | 1028 | 65   | 2.64 | 2.43 |  |
| 8000 | 1066 | 969  | 64   | 2.52 | 2.29 |  | 1106 | 1011 | 67   | 2.72 | 2.48 |  | 1146 | 1053 | 69   | 2.93 | 2.69 |  |
| 8400 | 1100 | 999  | 69   | 2.82 | 2.56 |  | 1139 | 1040 | 71   | 3.02 | 2.75 |  | 1177 | 1080 | 73   | 3.23 | 2.97 |  |
| 8800 | 1135 | 1030 | 74   | 3.13 | 2.84 |  |      |      |      |      |      |  |      |      |      |      |      |  |

MODELS: DFG2403WM, DFG2403WH, DFG2404WM, DFG2404WH, DFG2407WM, DFG2407WH

HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      |  | 1    |      |      |      |      |  | 1.2  |      |      |      |      |  | 1.4  |      |      |      |      |  |
|------|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 5600 | 881  | 830  | 35   | 0.98 | 0.93 |  | 937  | 886  | 36   | 1.12 | 1.06 |  | 990  | 947  | 38   | 1.26 | 1.21 |  | 1039 | 1000 | 39   | 1.41 | 1.37 |  |
| 6000 | 907  | 849  | 37   | 1.11 | 1.03 |  | 960  | 905  | 38   | 1.25 | 1.18 |  | 1012 | 965  | 40   | 1.41 | 1.35 |  | 1060 | 1016 | 41   | 1.57 | 1.51 |  |
| 6400 | 934  | 869  | 39   | 1.25 | 1.16 |  | 985  | 924  | 40   | 1.40 | 1.31 |  | 1034 | 984  | 42   | 1.57 | 1.49 |  | 1082 | 1033 | 44   | 1.74 | 1.66 |  |
| 6800 | 962  | 890  | 41   | 1.41 | 1.30 |  | 1010 | 944  | 43   | 1.57 | 1.47 |  | 1058 | 1003 | 45   | 1.75 | 1.66 |  | 1104 | 1050 | 46   | 1.93 | 1.83 |  |
| 7200 | 991  | 913  | 44   | 1.59 | 1.47 |  | 1037 | 966  | 45   | 1.76 | 1.64 |  | 1083 | 1023 | 47   | 1.95 | 1.84 |  | 1128 | 1068 | 49   | 2.14 | 2.02 |  |
| 7600 | 1020 | 936  | 47   | 1.79 | 1.65 |  | 1064 | 988  | 48   | 1.97 | 1.83 |  | 1109 | 1044 | 50   | 2.17 | 2.03 |  | 1152 | 1087 | 52   | 2.36 | 2.22 |  |
| 8000 | 1050 | 960  | 50   | 2.02 | 1.85 |  | 1092 | 1010 | 51   | 2.20 | 2.03 |  | 1135 | 1065 | 53   | 2.40 | 2.24 |  | 1178 | 1106 | 55   | 2.60 | 2.44 |  |
| 8400 | 1080 | 986  | 53   | 2.26 | 2.07 |  | 1121 | 1034 | 54   | 2.45 | 2.26 |  | 1163 | 1086 | 56   | 2.66 | 2.47 |  | 1204 | 1126 | 58   | 2.86 | 2.67 |  |
| 8800 | 1112 | 1012 | 56   | 2.53 | 2.30 |  | 1151 | 1059 | 58   | 2.72 | 2.50 |  | 1191 | 1108 | 60   | 2.93 | 2.71 |  |      |      |      |      |      |  |
| CFM  | 1.6  |      |      |      |      |  | 1.8  |      |      |      |      |  | 2    |      |      |      |      |  | 2.2  |      |      |      |      |  |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |  |
| 5600 | 1088 | 1050 | 41   | 1.58 | 1.53 |  | 1136 | 1099 | 42   | 1.74 | 1.69 |  | 1182 | 1143 | 44   | 1.91 | 1.85 |  | 1227 | 1186 | 46   | 2.09 | 2.03 |  |
| 6000 | 1109 | 1065 | 43   | 1.74 | 1.68 |  | 1156 | 1113 | 45   | 1.91 | 1.84 |  | 1202 | 1158 | 46   | 2.09 | 2.02 |  | 1246 | 1201 | 48   | 2.28 | 2.20 |  |
| 6400 | 1130 | 1081 | 46   | 1.92 | 1.84 |  | 1176 | 1128 | 47   | 2.10 | 2.01 |  | 1222 | 1173 | 49   | 2.29 | 2.20 |  | 1265 | 1216 | 50   | 2.48 | 2.39 |  |
| 6800 | 1152 | 1097 | 48   | 2.12 | 2.02 |  | 1197 | 1143 | 50   | 2.30 | 2.20 |  | 1243 | 1188 | 51   | 2.50 | 2.39 |  | 1285 | 1231 | 53   | 2.70 | 2.59 |  |
| 7200 | 1174 | 1114 | 51   | 2.33 | 2.22 |  | 1219 | 1159 | 52   | 2.52 | 2.39 |  | 1263 | 1203 | 54   | 2.72 | 2.59 |  | 1304 | 1246 | 56   | 2.93 | 2.80 |  |
| 7600 | 1198 | 1132 | 54   | 2.56 | 2.42 |  | 1241 | 1175 | 55   | 2.75 | 2.60 |  | 1284 | 1218 | 57   | 2.96 | 2.81 |  | 1323 | 1261 | 59   | 3.17 | 3.02 |  |
| 8000 | 1222 | 1150 | 57   | 2.81 | 2.64 |  | 1263 | 1191 | 58   | 3.00 | 2.83 |  | 1305 | 1234 | 60   | 3.21 | 3.04 |  | 1343 | 1276 | 62   | 3.43 | 3.26 |  |
| 8400 | 1246 | 1169 | 60   | 3.07 | 2.88 |  | 1286 | 1208 | 61   | 3.27 | 3.06 |  |      |      |      |      |      |  |      |      |      |      |      |  |
| 8800 |      |      |      |      |      |  |      |      |      |      |      |  |      |      |      |      |      |  |      |      |      |      |      |  |

## APPENDIX A BLOWER PERFORMANCE DATA

MODELS: DFC2403D, DFC2404D, DFC2407D

STANDARD STATIC TO 3.5HP (0.2 ~1.2 ESP)

| CFM  | 0.2  |      |      |      |      | 0.4  |      |      |      |      | 0.6  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4800 | 525  | 539  | 31   | 0.42 | 1.18 | 615  | 621  | 33   | 0.53 | 1.07 | 699  | 693  | 35   | 0.66 | 1.05 |
| 5200 | 550  | 566  | 33   | 0.48 | 1.17 | 635  | 644  | 35   | 0.61 | 1.07 | 712  | 712  | 37   | 0.75 | 1.05 |
| 5600 | 576  | 593  | 35   | 0.56 | 1.16 | 656  | 668  | 38   | 0.71 | 1.06 | 726  | 731  | 40   | 0.86 | 1.04 |
| 6000 | 601  | 620  | 38   | 0.65 | 1.15 | 678  | 691  | 40   | 0.82 | 1.05 | 742  | 752  | 43   | 1.00 | 1.03 |
| 6400 | 627  | 646  | 41   | 0.77 | 1.14 | 700  | 715  | 44   | 0.96 | 1.04 | 759  | 773  | 46   | 1.15 | 1.02 |
| 6800 | 652  | 672  | 44   | 0.91 | 1.13 | 722  | 739  | 47   | 1.12 | 1.03 | 778  | 794  | 50   | 1.32 | 1.01 |
| 7200 | 677  | 698  | 48   | 1.06 | 1.12 | 744  | 763  | 51   | 1.30 | 1.03 | 798  | 817  | 54   | 1.52 | 1.01 |
| 7600 | 702  | 724  | 52   | 1.24 | 1.11 | 767  | 788  | 55   | 1.49 | 1.02 | 819  | 840  | 59   | 1.73 | 1.00 |
| 8000 | 727  | 750  | 56   | 1.43 | 1.11 | 791  | 812  | 60   | 1.71 | 1.01 | 842  | 865  | 64   | 1.97 | 0.99 |
| 8400 | 752  | 775  | 61   | 1.65 | 1.10 | 814  | 836  | 65   | 1.95 | 1.00 | 867  | 890  | 69   | 2.22 | 0.99 |
| 8800 | 777  | 800  | 66   | 1.88 | 1.09 | 838  | 861  | 70   | 2.21 | 0.99 | 892  | 915  | 74   | 2.50 | 0.98 |
| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 4800 | 777  | 761  | 37   | 0.84 | 0.92 | 860  | 820  | 40   | 1.05 | 0.75 | 908  | 884  | 43   | 1.22 | 0.71 |
| 5200 | 791  | 776  | 40   | 0.95 | 0.91 | 874  | 834  | 43   | 1.18 | 0.75 | 920  | 896  | 46   | 1.36 | 0.71 |
| 5600 | 806  | 792  | 43   | 1.08 | 0.91 | 888  | 849  | 46   | 1.32 | 0.74 | 932  | 908  | 49   | 1.51 | 0.70 |
| 6000 | 821  | 809  | 46   | 1.23 | 0.90 | 900  | 866  | 49   | 1.48 | 0.74 | 944  | 922  | 52   | 1.68 | 0.70 |
| 6400 | 836  | 828  | 50   | 1.39 | 0.89 | 911  | 883  | 53   | 1.65 | 0.74 | 954  | 937  | 56   | 1.87 | 0.70 |
| 6800 | 852  | 848  | 53   | 1.57 | 0.89 | 922  | 902  | 57   | 1.84 | 0.73 | 964  | 953  | 60   | 2.07 | 0.70 |
| 7200 | 868  | 869  | 58   | 1.78 | 0.88 | 931  | 921  | 61   | 2.04 | 0.73 | 973  | 971  | 64   | 2.28 | 0.69 |
| 7600 | 885  | 892  | 62   | 2.00 | 0.88 | 939  | 942  | 66   | 2.26 | 0.72 | 981  | 989  | 69   | 2.50 | 0.69 |
| 8000 | 902  | 915  | 67   | 2.23 | 0.87 | 947  | 964  | 71   | 2.49 | 0.72 | 989  | 1009 | 74   | 2.74 | 0.69 |
| 8400 | 919  | 940  | 72   | 2.49 | 0.87 |      |      |      |      |      |      |      |      |      |      |
| 8800 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

MODELS: DFC2403W, DFC2404W, DFC2407W

HIGH STATIC TO 5HP (0.8 ~2.2 ESP)

| CFM  | 0.8  |      |      |      |      | 1    |      |      |      |      | 1.2  |      |      |      |      | 1.4  |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 5600 | 775  | 789  | 22   | 0.86 | 0.88 | 842  | 861  | 24   | 0.99 | 1.04 | 889  | 918  | 27   | 1.14 | 1.21 | 938  | 985  | 30   | 1.31 | 1.41 |
| 6000 | 789  | 797  | 25   | 0.95 | 0.97 | 852  | 871  | 27   | 1.10 | 1.14 | 901  | 931  | 30   | 1.26 | 1.33 | 953  | 999  | 33   | 1.46 | 1.55 |
| 6400 | 807  | 808  | 28   | 1.07 | 1.08 | 866  | 884  | 31   | 1.23 | 1.27 | 916  | 946  | 33   | 1.42 | 1.48 | 970  | 1015 | 36   | 1.63 | 1.72 |
| 6800 | 828  | 822  | 32   | 1.22 | 1.21 | 883  | 900  | 34   | 1.39 | 1.42 | 936  | 963  | 37   | 1.59 | 1.64 | 991  | 1032 | 40   | 1.82 | 1.90 |
| 7200 | 853  | 840  | 36   | 1.39 | 1.37 | 906  | 918  | 38   | 1.57 | 1.59 | 959  | 981  | 41   | 1.79 | 1.83 | 1015 | 1050 | 44   | 2.04 | 2.10 |
| 7600 | 882  | 861  | 40   | 1.59 | 1.56 | 932  | 938  | 42   | 1.79 | 1.79 | 987  | 1002 | 45   | 2.02 | 2.03 | 1043 | 1069 | 49   | 2.28 | 2.31 |
| 8000 | 914  | 886  | 44   | 1.82 | 1.77 | 963  | 961  | 47   | 2.03 | 2.01 | 1018 | 1024 | 50   | 2.27 | 2.26 | 1074 | 1090 | 53   | 2.54 | 2.54 |
| 8400 | 950  | 914  | 49   | 2.08 | 2.00 | 998  | 986  | 52   | 2.30 | 2.25 | 1052 | 1047 | 55   | 2.55 | 2.50 | 1108 | 1111 | 58   | 2.82 | 2.79 |
| 8800 | 989  | 946  | 54   | 2.36 | 2.26 | 1037 | 1014 | 57   | 2.59 | 2.51 |      |      |      |      |      |      |      |      |      |      |
| CFM  | 1.6  |      |      |      |      | 1.8  |      |      |      |      | 2    |      |      |      |      | 2.2  |      |      |      |      |
|      | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 | RPM1 | RPM2 | DDC% | BHP1 | BHP2 |
| 5600 | 1008 | 1042 | 33   | 1.54 | 1.63 | 1066 | 1086 | 36   | 1.75 | 1.82 | 1116 | 1129 | 38   | 1.94 | 1.98 | 1165 | 1175 | 41   | 2.16 | 2.19 |
| 6000 | 1023 | 1058 | 36   | 1.71 | 1.79 | 1081 | 1101 | 39   | 1.93 | 1.98 | 1132 | 1143 | 41   | 2.12 | 2.16 | 1182 | 1189 | 45   | 2.35 | 2.38 |
| 6400 | 1040 | 1074 | 40   | 1.89 | 1.97 | 1099 | 1117 | 43   | 2.12 | 2.17 | 1149 | 1159 | 45   | 2.32 | 2.35 | 1199 | 1203 | 48   | 2.56 | 2.57 |
| 6800 | 1060 | 1091 | 44   | 2.09 | 2.16 | 1118 | 1134 | 47   | 2.33 | 2.36 | 1168 | 1175 | 49   | 2.54 | 2.55 | 1219 | 1217 | 52   | 2.78 | 2.78 |
| 7200 | 1083 | 1108 | 48   | 2.31 | 2.36 | 1139 | 1150 | 51   | 2.56 | 2.57 | 1189 | 1191 | 53   | 2.77 | 2.77 | 1239 | 1232 | 56   | 3.02 | 2.99 |
| 7600 | 1109 | 1127 | 52   | 2.56 | 2.58 | 1163 | 1168 | 55   | 2.80 | 2.80 | 1212 | 1208 | 58   | 3.02 | 3.00 | 1261 | 1247 | 61   | 3.28 | 3.22 |
| 8000 | 1137 | 1146 | 57   | 2.82 | 2.82 | 1189 | 1186 | 60   | 3.06 | 3.03 | 1237 | 1225 | 62   | 3.29 | 3.24 | 1285 | 1262 | 65   | 3.55 | 3.46 |
| 8400 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8800 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

## APPENDIX A ECONOMIZER PRESSURE DROP

| Airflow Pressure Drop of Downflow Economizer for 15 to 25 Ton Rooftop Units (100% Return Air) |      |      |      |      |      |      |      |      |      |      |      |       |
|---|------|------|------|------|------|------|------|------|------|------|------|-------|
| <b>SCFM</b>   | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| <b>(In WG)</b>  | 0.15 | 0.18 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 | 0.48 | 0.55 | 0.61 | 0.69 | 0.76  |

# APPENDIX B ELECTRICAL DATA

| Model Number | Electrical Rating | Compressor |      |     | Outdoor Fan Motor |      |      | Indoor Fan Motor |     |      | Optional Electric Heat |           |           | Optional Powered Convenience Outlet | Optional Power Exhaust | Optional Power Exhaust (Modulating) | Power Supply |           |         |   |   |      |         |           |         |         |         |         |
|--------------|-------------------|------------|------|-----|-------------------|------|------|------------------|-----|------|------------------------|-----------|-----------|-------------------------------------|------------------------|-------------------------------------|--------------|-----------|---------|---|---|------|---------|-----------|---------|---------|---------|---------|
|              |                   | QTY        | RLA  | LRA | QTY               | HP   | FLA  | QTY              | HP  | FLA  | Part #                 | KW*       | FLA       | FLA                                 | FLA                    | FLA                                 | MCA          | MOP       |         |   |   |      |         |           |         |         |         |         |
| DFC1803D     | 208/230/3/60      | 2          | 25   | 164 | 3                 | 0.33 | 2    | 2                | 3.5 | 10.9 | -                      | -         | -         | -                                   | -                      | -                                   | 84.0/84.0    | 100/100   |         |   |   |      |         |           |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | 88.8/88.8 | 110/110 |   |   |      |         |           |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | 13.9 | -       | 97.9/97.9 | 110/110 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | 9.6/8.7   | -       | - | - | -    | -       | 93.6/92.7 | 110/110 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | 9.6/8.7   | -       | - | - | 4.8  | -       | 98.4/97.5 | 110/110 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | 9.6/8.7   | -       | - | - | -    | 13.9    | 108/107   | 125/125 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 102/114   | 110/125 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | 4.8  | -       | 108/120   | 110/125 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | 13.9    | 120/131   | 125/150 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L30              | 21.6/28.8 | 60.0/69.3 | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 114/125 | 125/125 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 120/131 | 125/150 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 132/142 | 150/150 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 140/157 | 150/175 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 4.8     | 146/163 | 150/175 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 13.9    | 157/175 | 175/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L45              | 32.5/43.2 | 90.1/104  | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 152/168 | 175/175 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 158/174 | 175/175 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 4.8     | 169/185 | 175/200 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 177/166 | 200/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 4.8     | 183/172 | 200/175 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 195/183 | 200/200 |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L60              | 43.3/57.6 | 120/139   | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 189/177 | 200/200 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 195/183 | 200/200 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 207/194 | 225/200 |
| -            | -                 | -          | -    | -   | -                 | -    | -    | -                | -   | -    |                        |           |           | -                                   | -                      | 91.2/91.2                           | 110/110      |           |         |   |   |      |         |           |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -    | -    | -                | -   | -    |                        |           |           | -                                   | -                      | 96.0/96.0                           | 110/110      |           |         |   |   |      |         |           |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -    | -    | -                | -   | -    |                        |           |           | -                                   | -                      | 105/105                             | 125/125      |           |         |   |   |      |         |           |         |         |         |         |
| DFC1803W     | 208/230/3/60      | 2          | 25   | 164 | 3                 | 0.33 | 2    | 2                | 5   | 14.5 | -                      | -         | -         | -                                   | -                      | -                                   | 101/99.9     | 125/110   |         |   |   |      |         |           |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | 106/105 | 125/125   |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 115/114   | 125/125 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 111/123   | 125/125 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 117/129   | 125/150 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 129/140   | 150/150 |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L30              | 21.6/28.8 | 60.0/69.3 | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 123/134 | 125/150 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 129/140 | 150/150 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 141/151 | 150/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 149/166 | 150/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 155/172 | 175/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 166/184 | 175/200 |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L45              | 32.5/43.2 | 90.1/104  | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 161/177 | 175/200 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 167/183 | 175/200 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 178/194 | 200/200 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 186/175 | 200/175 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 192/181 | 200/200 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 204/192 | 225/200 |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-3L60              | 43.3/57.6 | 120/139   | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 198/186 | 200/200 |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 204/192 | 225/200 |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 216/203 | 225/225 |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 44.4    | 50      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 46.8    | 50      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 8.1     | 60      |
| DFC1804D     | 460/3/60          | 2          | 12.2 | 100 | 3                 | 0.33 | 0.85 | 2                | 3.5 | 7.2  | -                      | -         | -         | -                                   | -                      | -                                   | 51.1         | 60        |         |   |   |      |         |           |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | 56.8    | 60        |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 61.3      | 70      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 64.3      | 70      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 71.4      | 80      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 66.7      | 70      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L30              | 28.8      | 34.6      | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 69.7    | 70      |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 76.8    | 80      |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 83.0    | 90      |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 86.0    | 90      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 81      | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 88.3    | 90      |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L45              | 43.2      | 52        | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 93.1    | 100     |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 91.3    | 100     |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 98.5    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 87.3    | 90      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 90.3    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 97.4    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L60              | 57.6      | 69.3      | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 92.7    | 100     |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 95.7    | 100     |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 103     | 110     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 51.2    | 60      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 53.6    | 60      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 59.3    | 70      |
| DFC1804W     | 460/3/60          | 2          | 12.2 | 100 | 3                 | 0.33 | 0.85 | 2                | 5   | 10.6 | -                      | -         | -         | -                                   | -                      | -                                   | 55.5         | 60        |         |   |   |      |         |           |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | 57.9    | 70        |         |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 63.6      | 70      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 69.8      | 70      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 72.8      | 80      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | -                      | -         | -         | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | 79.9      | 80      |         |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L30              | 28.8      | 34.6      | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 75.2    | 80      |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 78.2    | 80      |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 85.3    | 90      |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 91.5    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 94.5    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 102     | 110     |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L45              | 43.2      | 52        | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 96.8    | 100     |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 99.8    | 100     |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 107     | 110     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 95.8    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 98.8    | 100     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 106     | 110     |
|              |                   |            |      |     |                   |      |      |                  |     |      | EH**-4L60              | 57.6      | 69.3      | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | 101     | 110     |         |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | 104     | 110     |         |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 111     | 125     |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 4.3     | 60      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 4.3     | 60      |
|              |                   |            |      |     |                   |      |      |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | -         | -       | - | - | -    | -       | -         | -       | -       | 4.3     | 60      |

## APPENDIX B ELECTRICAL DATA

| Model Number | Electrical Rating | Compressor |      |         | Outdoor Fan Motor |         |         | Indoor Fan Motor |     |      | Optional Electric Heat |           |           | Optional Powered Convenience Outlet | Optional Power Exhaust | Optional Power Exhaust (Modulating) | Power Supply |         |         |
|--------------|-------------------|------------|------|---------|-------------------|---------|---------|------------------|-----|------|------------------------|-----------|-----------|-------------------------------------|------------------------|-------------------------------------|--------------|---------|---------|
|              |                   | QTY        | RLA  | LRA     | QTY               | HP      | FLA     | QTY              | HP  | FLA  | Part #                 | KW*       | FLA       | FLA                                 | FLA                    | FLA                                 | MCA          | MOP     |         |
| DFC1807D     | 575/3/60          | 2          | 9    | 78      | 3                 | 0.33    | 0.67    | 2                | 3.5 | 5    | EH**-7L30              | 28.8      | 27.7      | -                                   | -                      | -                                   | 32.2         | 40      |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 34.2    | 40      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 40.5    | 45      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 35.7    | 40      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 37.7    | 45      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 44.0    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 47.1    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 49.6    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 57.5    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 51.5    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 54.0    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 61.9    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      | EH**-7L45              | 43.2      | 41.6      | -                                   | -                      | -                                   | 64.5         | 70      |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 67.0    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 74.8    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 68.8    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 71.3    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 79.2    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 67.9    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 70.4    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 78.3    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 72.3    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 74.8    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 82.7    | 90      |
| DFC1807W     | 575/3/60          | 2          | 9    | 78      | 3                 | 0.33    | 0.67    | 2                | 5   | 7.2  | EH**-7L30              | 28.8      | 27.7      | -                                   | -                      | -                                   | 36.6         | 45      |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 38.6    | 45      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 44.9    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 40.1    | 45      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 42.1    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 48.4    | 50      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 52.6    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 55.1    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 63.0    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 57.0    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 59.5    | 60      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 67.4    | 70      |
|              |                   |            |      |         |                   |         |         |                  |     |      | EH**-7L45              | 43.2      | 41.6      | -                                   | -                      | -                                   | 70.0         | 70      |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 72.5    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 8.3          | 80.3    | 90      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 74.3    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 76.8    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 84.7    | 90      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 73.4    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 2                                   | -            | 75.9    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 83.8    | 90      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 77.8    | 80      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | 2            | 80.3    | 90      |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 3.5                                 | -            | 88.2    | 90      |
| DFC2403D     | 208/230/3/60      | 2          | 28.2 | 240     | 4                 | 0.5     | 2.7     | 2                | 3.5 | 10.9 | EH**-3L30              | 21.6/28.8 | 60.0/69.3 | -                                   | -                      | -                                   | 96.1/96.1    | 110/110 |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 101/101 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 13.9         | 110/110 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 106/105 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 110/110 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 120/119 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 102/114 | 110/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 108/120 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 120/131 | 125/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 114/125 | 125/125 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 120/131 | 125/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 132/142 | 150/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      | EH**-3L45              | 32.5/43.2 | 90.1/104  | -                                   | -                      | -                                   | 140/157      | 150/175 |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 146/163 | 150/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 13.9         | 157/175 | 175/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 152/168 | 175/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 158/174 | 175/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 169/185 | 175/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 177/166 | 200/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 183/172 | 200/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 195/183 | 200/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 189/177 | 200/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 195/183 | 200/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 207/194 | 225/200 |
| EH**-3L60    | 43.3/57.6         | 120/139    | -    | -       | -                 | 177/200 | 200/225 |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 4.8               | -       | 183/206 | 200/225          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | 13.9    | 195/218 | 200/225          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | 189/211 | 200/225          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | -       | 195/217 | 200/225          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | 4.8     | 195/217 | 200/225          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | -       | 207/229 | 225/250          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | 103/103 | 125/125          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | 4.8     | 108/108 | 125/125          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | 117/117 | 125/125          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | 113/112 | 125/125          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | 118/117 | 125/125          |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | 127/126 | 150/150           |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| DFC2403W     | 208/230/3/60      | 2          | 28.2 | 240     | 4                 | 0.5     | 2.7     | 2                | 5   | 14.5 | EH**-3L30              | 21.6/28.8 | 60.0/69.3 | -                                   | -                      | -                                   | 111/123      | 125/125 |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 117/129 | 125/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 13.9         | 129/140 | 150/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 123/134 | 125/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 129/140 | 150/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 129/140 | 150/150 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 141/151 | 150/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 149/166 | 150/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 155/172 | 175/175 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 166/184 | 175/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 161/177 | 175/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 167/183 | 175/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      | -                      | -         | 9.6/8.7   | -                                   | 178/194                | 200/200                             |              |         |         |
|              |                   |            |      |         |                   |         |         |                  |     |      | EH**-3L45              | 32.5/43.2 | 90.1/104  | -                                   | -                      | -                                   | 186/175      | 200/175 |         |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 192/181 | 200/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | 13.9         | 204/192 | 225/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 198/186 | 200/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 204/192 | 225/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | 4.8          | 204/192 | 225/200 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 216/203 | 225/225 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 186/209 | 200/225 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 4.8                                 | -            | 192/215 | 200/225 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | -                                   | -            | 204/227 | 225/250 |
|              |                   |            |      |         |                   |         |         |                  |     |      |                        |           |           | -                                   | -                      | 9.6/8.7                             | -            | 198/220 | 200/225 |
| -            | -                 | 9.6/8.7    | 4.8  | 204/226 | 225/250           |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| EH**-3L60    | 43.3/57.6         | 120/139    | -    | -       | -                 | 216/238 | 225/250 |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 4.8               | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | 4.8     | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 4.8               | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | -                 | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | -       | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
|              |                   |            | -    | -       | 9.6/8.7           | 4.8     | -       | -                |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | 4.8  | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 9.6/8.7    | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | 4.8        | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -                 | -          | -    | -       | -                 |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |
| -            | -</               |            |      |         |                   |         |         |                  |     |      |                        |           |           |                                     |                        |                                     |              |         |         |

# APPENDIX B ELECTRICAL DATA

| Model Number | Electrical Rating | Compressor |      |      | Outdoor Fan Motor |      |     | Indoor Fan Motor |     |      | Optional Electric Heat |      |      | Optional Powered Convenience Outlet | Optional Power Exhaust | Optional Power Exhaust (Modulating) | Power Supply |     |     |      |    |
|--------------|-------------------|------------|------|------|-------------------|------|-----|------------------|-----|------|------------------------|------|------|-------------------------------------|------------------------|-------------------------------------|--------------|-----|-----|------|----|
|              |                   | QTY        | RLA  | LRA  | QTY               | HP   | FLA | QTY              | HP  | FLA  | Part #                 | KW*  | FLA  | FLA                                 | FLA                    | FLA                                 | MCA          | MOP |     |      |    |
| DFC2404D     | 460/3/60          | 2          | 14.7 | 130  | 4                 | 0.5  | 1.4 | 2                | 3.5 | 7.2  | EH**-4L30              | 28.8 | 34.6 | -                                   | -                      | -                                   | 53.2         | 60  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 55.6         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 61.3         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | -                                   | 57.5         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 59.9         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 65.6         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 61.3         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | -                                   | 64.3         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 71.4         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 66.7         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 69.7         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 76.8         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-4L45              | 43.2 | 52   | -                                   | -                      | -                                   | 83.0         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 86.0         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 93.1         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 88.3         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 91.3         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 98.5         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-4L60              | 57.6 | 69.3 | -                                   | -                      | -                                   | 87.3         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 90.3         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 97.4         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 92.7         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 95.7         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 103          | 110 |     |      |    |
| EH**-4L75    | 72                | 86.6       | -    | -    | -                 | 105  | 110 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 2.4  | -                 | 108  | 110 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | -    | 8.1               | 115  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | -                 | 110  | 110 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | 2.4               | 113  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | -                 | 120  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
| DFC2404W     | 460/3/60          | 2          | 14.7 | 130  | 4                 | 0.5  | 1.4 | 2                | 5   | 10.6 | EH**-4L30              | 28.8 | 34.6 | -                                   | -                      | -                                   | 60.0         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 62.4         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 68.1         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | -                                   | 64.3         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 66.7         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 72.4         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | EH**-4L45                           | 43.2                   | 52                                  | -            | -   | -   | 69.8 | 70 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 2.4 | -   | 72.8 | 80 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | -   | 8.1 | 79.9 | 80 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 4.3 | -   | 75.2 | 80 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 4.3 | 2.4 | 78.2 | 80 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 4.3 | -   | 85.3 | 90 |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-4L60              | 57.6 | 69.3 | -                                   | -                      | -                                   | 91.5         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 94.5         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 102          | 110 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 96.8         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 99.8         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 107          | 110 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-4L75              | 72   | 86.6 | -                                   | -                      | -                                   | 95.8         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2.4                    | -                                   | 98.8         | 100 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.1                                 | 106          | 110 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 101          | 110 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | 2.4                                 | 104          | 110 |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 4.3                    | -                                   | 111          | 125 |     |      |    |
| EH**-4L75    | 72                | 86.6       | -    | -    | -                 | 113  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 2.4  | -                 | 116  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | -    | 8.1               | 123  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | -                 | 118  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | 2.4               | 121  | 125 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 4.3  | -                 | 129  | 150 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
| DFC2407D     | 575/3/60          | 2          | 11.3 | 93.7 | 4                 | 0.5  | 1   | 2                | 3.5 | 5    | EH**-7L30              | 28.8 | 27.7 | -                                   | -                      | -                                   | 39.4         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 41.4         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 47.7         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | -                                   | 42.9         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 44.9         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 51.2         | 60  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | EH**-7L45                           | 43.2                   | 41.6                                | -            | -   | -   | 47.1 | 50 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 2   | -   | 49.6 | 50 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | -   | 8.3 | 57.5 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | -   | 51.5 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | 2   | 54.0 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | -   | 61.9 | 70 |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-7L60              | 57.6 | 55.4 | -                                   | -                      | -                                   | 64.5         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 67.0         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 74.8         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 68.8         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 71.3         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 79.2         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-7L75              | 72   | 69.3 | -                                   | -                      | -                                   | 67.9         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 70.4         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 78.3         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 72.3         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 74.8         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 82.7         | 90  |     |      |    |
| EH**-7L75    | 72                | 69.3       | -    | -    | -                 | 81.8 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 2    | -                 | 84.3 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | -    | 8.3               | 92.2 | 100 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | -                 | 86.2 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | 2                 | 88.7 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | -                 | 96.5 | 100 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
| DFC2407W     | 575/3/60          | 2          | 11.3 | 93.7 | 4                 | 0.5  | 1   | 2                | 5   | 7.2  | EH**-7L30              | 28.8 | 27.7 | -                                   | -                      | -                                   | 43.8         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 45.8         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 52.1         | 60  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | -                                   | 47.3         | 50  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 49.3         | 60  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 55.6         | 60  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | EH**-7L45                           | 43.2                   | 41.6                                | -            | -   | -   | 52.6 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 2   | -   | 55.1 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | -   | 8.3 | 63.0 | 70 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | -   | 57.0 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | 2   | 59.5 | 60 |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      |                                     |                        |                                     | -            | 3.5 | -   | 67.4 | 70 |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-7L60              | 57.6 | 55.4 | -                                   | -                      | -                                   | 70.0         | 70  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 72.5         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 80.3         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 74.3         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 76.8         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 84.7         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      | EH**-7L75              | 72   | 69.3 | -                                   | -                      | -                                   | 73.4         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 2                      | -                                   | 75.9         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | -                      | 8.3                                 | 83.8         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 77.8         | 80  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | 2                                   | 80.3         | 90  |     |      |    |
|              |                   |            |      |      |                   |      |     |                  |     |      |                        |      |      | -                                   | 3.5                    | -                                   | 88.2         | 90  |     |      |    |
| EH**-7L75    | 72                | 69.3       | -    | -    | -                 | 87.3 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 2    | -                 | 89.8 | 90  |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | -    | 8.3               | 97.7 | 100 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | -                 | 91.7 | 100 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | 2                 | 94.2 | 100 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |
|              |                   |            | -    | 3.5  | -                 | 102  | 110 |                  |     |      |                        |      |      |                                     |                        |                                     |              |     |     |      |    |

## APPENDIX B ELECTRICAL DATA

| Model Number | Electrical Rating | Compressor |      |     | Outdoor Fan Motor |     |         | Indoor Fan Motor |     |      | Optional Electric Heat |              |     | Optional Powered Convenience Outlet | Optional Power Exhaust | Optional Power Exhaust (Modulating) | Power Supply |         |   |      |         |         |         |         |         |   |   |         |         |     |      |         |         |         |         |         |
|--------------|-------------------|------------|------|-----|-------------------|-----|---------|------------------|-----|------|------------------------|--------------|-----|-------------------------------------|------------------------|-------------------------------------|--------------|---------|---|------|---------|---------|---------|---------|---------|---|---|---------|---------|-----|------|---------|---------|---------|---------|---------|
|              |                   | QTY        | RLA  | LRA | QTY               | HP  | FLA     | QTY              | HP  | FLA  | Part #                 | KW*          | FLA | FLA                                 | FLA                    | FLA                                 | MCA          | MOP     |   |      |         |         |         |         |         |   |   |         |         |     |      |         |         |         |         |         |
| DFC3003D     | 208/230/3/60      | 2          | 48.1 | 245 | 5                 | 0.5 | 2.7     | 2                | 5   | 14.5 | -                      | -            | -   | -                                   | -                      | -                                   | 151/151      | 175/175 |   |      |         |         |         |         |         |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.8     | - | -    | 155/155 | 200/200 |         |         |         |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 13.9 | -       | -       | 165/165 | 200/200 |         |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | -       | -       | 160/159 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | 4.8  | -       | -       | -       | 165/164 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | 13.9    | -       | 174/173 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 151/151 | 175/175 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 4.8  | -       | -       | -       | 155/155 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | 13.9    | -       | -       | 165/165 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | -       | -       | 160/159 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | 4.8  | -       | -       | -       | 165/164 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | 13.9    | -       | 174/173 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 151/166 | 175/175 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 4.8  | -       | -       | -       | 155/172 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 13.9    | -       | 166/184 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | -       | -       | 161/177 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | 4.8  | -       | -       | -       | 167/183 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | 13.9    | -       | 178/194 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 186/175 | 200/175 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 4.8  | -       | -       | -       | 192/181 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 13.9    | -       | 204/192 | 225/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | -       | -       | 198/186 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | 4.8  | -       | -       | -       | 204/192 | 225/200 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | 13.9    | -       | 216/203 | 225/225 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 186/209 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 4.8  | -       | -       | -       | 192/215 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | 13.9    | -       | -       | 204/227 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | -       | -       | 198/220 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | 4.8  | -       | -       | -       | 204/226 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 9.6/8.7 | - | -    | -       | 13.9    | -       | 216/238 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | DFC3003W               | 208/230/3/60 | 2   | 48.1                                | 245                    | 5                                   | 0.5          | 2.7     | 2 | 5    | 14.5    | -       | -       | -       | -       | - | - | 151/151 | 175/175 |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | 4.8     | -   | -    | 155/155 | 200/200 |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | -       | -   | 13.9 | -       | -       | 165/165 | 200/200 |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | 9.6/8.7 | -   | -    | -       | -       | -       | 160/159 | 200/200 |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | 9.6/8.7 | -   | 4.8  | -       | -       | -       | 165/164 | 200/200 |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | 9.6/8.7 | -   | -    | -       | 13.9    | -       | 174/173 | 200/200 |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 151/151 | 175/175 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 155/155 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | 13.9 |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 165/165 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 160/159 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 165/164 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 174/173 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 151/166 | 175/175 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 155/172 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 166/184 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 161/177 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 167/183 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 178/194 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 186/175 | 200/175 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 192/181 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 204/192 | 225/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 198/186 | 200/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 204/192 | 225/200 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 216/203 | 225/225 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 186/209 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 192/215 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | -       | -                | -   | 13.9 |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 204/227 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 198/220 | 200/225 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | 4.8 | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | 204/226 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
| -            | -                 | -          | -    | -   | -                 | -   | 9.6/8.7 | -                | -   | -    |                        |              |     |                                     |                        |                                     |              |         |   |      |         | 13.9    | -       | 216/238 | 225/250 |   |   |         |         |     |      |         |         |         |         |         |
| DFC3004D     | 460/3/60          | 2          | 18.6 | 125 | 5                 | 0.5 | 1.4     | 2                | 5   | 10.6 |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | 70.0    | 80      |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | 2.4     | -   | -    | 72.4    | 90      |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | -       | -       | -   | 8.1  | -       | -       | 78.1    | 90      |         |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | 4.3     | -       | -   | -    | -       | -       | -       | 74.3    | 90      |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | 4.3     | -       | 2.4 | -    | -       | -       | -       | 76.7    | 90      |
|              |                   |            |      |     |                   |     |         |                  |     |      |                        |              |     |                                     |                        |                                     |              |         |   |      |         | -       | -       | -       | -       | - | - | 4.3     | -       | -   | -    | -       | 8.1     | -       | 82.4    | 100     |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 70.0    | 80      |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 2.4  | -       | -       | -       | 72.8    | 90      |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 8.1     | -       | 79.9    | 90      |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | -       | -       | 75.2    | 90      |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | 2.4  | -       | -       | -       | 78.2    | 90      |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | 8.1     | -       | 85.3    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 91.5    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 2.4  | -       | -       | -       | 94.5    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 8.1     | -       | 102     | 110     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | -       | -       | 96.8    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | 2.4  | -       | -       | -       | 99.8    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | 8.1     | -       | 107     | 110     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 95.8    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 2.4  | -       | -       | -       | 98.8    | 100     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 8.1     | -       | 106     | 110     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | -       | -       | 101     | 110     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | 2.4  | -       | -       | -       | 104     | 110     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | 8.1     | -       | 111     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | -       | -       | 113     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | 2.4  | -       | -       | -       | 116     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | -       | - | -    | -       | 8.1     | -       | 123     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | -       | -       | 118     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | 2.4  | -       | -       | -       | 121     | 125     |   |   |         |         |     |      |         |         |         |         |         |
|              |                   |            |      |     |                   |     |         |                  |     |      | -                      | -            | -   | -                                   | -                      | -                                   | -            | 4.3     | - | -    | -       | 8.1     | -       | 129     | 150     |   |   |         |         |     |      |         |         |         |         |         |

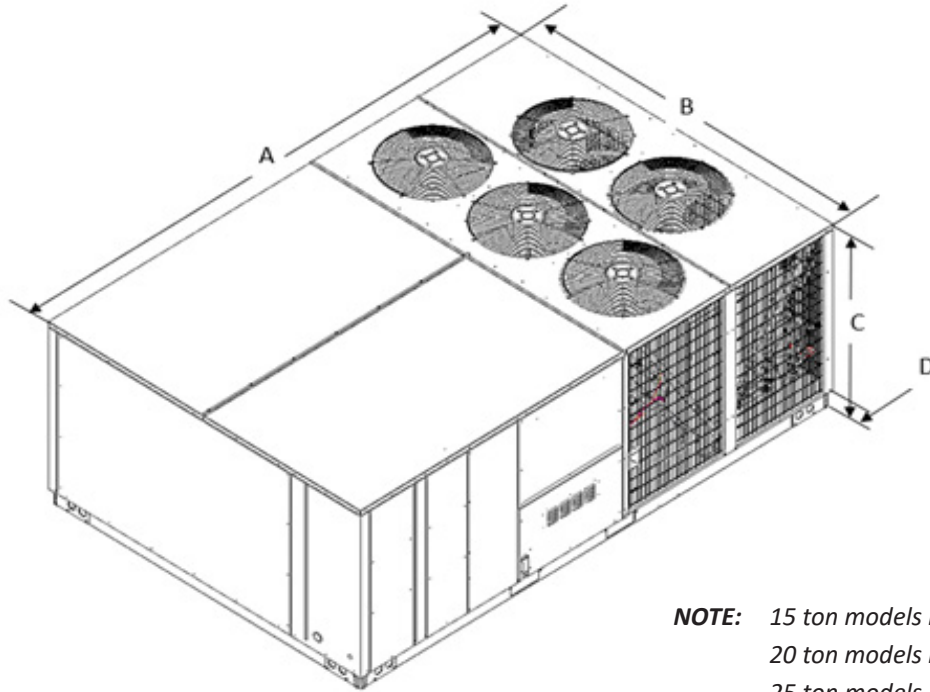


# APPENDIX B ELECTRICAL DATA

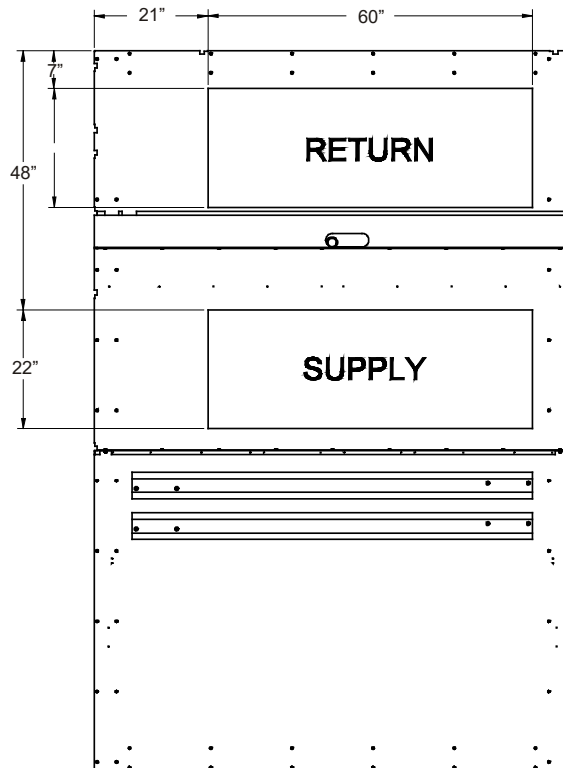
| Model Number | Electrical Rating | Compressor |      |     | Outdoor Fan Motor |     |     | Indoor Fan Motor |      |      | Optional Electric Heat |     |     | Optional Powered Convenience Outlet | Optional Power Exhaust | Optional Power Exhaust (Modulating) | Power Supply |      |     |      |     |
|--------------|-------------------|------------|------|-----|-------------------|-----|-----|------------------|------|------|------------------------|-----|-----|-------------------------------------|------------------------|-------------------------------------|--------------|------|-----|------|-----|
|              |                   | QTY        | RLA  | LRA | QTY               | HP  | FLA | QTY              | HP   | FLA  | Part #                 | KW* | FLA | FLA                                 | FLA                    | FLA                                 | MCA          | MOP  |     |      |     |
| DFC3004W     | 460/3/60          | 2          | 18.6 | 125 | 5                 | 0.5 | 1.4 | 2                | 5    | 10.6 | -                      | -   | -   | -                                   | -                      | -                                   | 70.0         | 80   |     |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 2.4                                 | -            | 72.4 | 90  |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 8.1  | -   | 78.1 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | -   | 74.3 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | 2.4  | -   | 76.7 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | 8.1 | 82.4 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 70.0 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2.4  | -   | 72.8 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.1 | 79.9 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | -   | 75.2 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | 2.4  | -   | 78.2 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | 8.1 | 85.3 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 91.5 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2.4  | -   | 94.5 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.1 | 102  | 110 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | -   | 96.8 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | 2.4  | -   | 99.8 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 4.3                                 | -            | -    | 8.1 | 107  | 110 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 95.8 | 100 |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2.4  | -   | 98.8 | 100 |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.1              | 106  | 110  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | -   | -                | 101  | 110  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | 2.4 | -                | 104  | 110  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | -   | 8.1              | 111  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | -                | 113  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | 2.4 | -                | 116  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.1              | 123  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | -   | -                | 118  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | 2.4 | -                | 121  | 125  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 4.3               | -   | -   | 8.1              | 129  | 150  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| DFC3007D     | 575/3/60          | 2          | 14.7 | 100 | 5                 | 0.5 | 1   | 2                | 5    | 7.2  | -                      | -   | -   | -                                   | -                      | -                                   | 52.6         | 60   |     |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 2                                   | -            | 54.6 | 60  |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 8.3  | -   | 60.9 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 56.1 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 58.1 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 64.4 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 52.6 | 60  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 55.1 | 60  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.3 | 63.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 57.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 59.5 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 67.4 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 70.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 72.5 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.3 | 80.3 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 74.3 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 76.8 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 84.7 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 73.4 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 75.9 | 80  |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.3              | 83.8 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | -                | 77.8 | 80   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | 2   | -                | 80.3 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | 8.3              | 88.2 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | -                | 87.3 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | 2   | -                | 89.8 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.3              | 97.7 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | -                | 91.7 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | 2   | -                | 94.2 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | 8.3              | 102  | 110  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| DFC3007W     | 575/3/60          | 2          | 14.7 | 100 | 5                 | 0.5 | 1   | 2                | 5    | 7.2  | -                      | -   | -   | -                                   | -                      | -                                   | 52.6         | 60   |     |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 2                                   | -            | 54.6 | 60  |      |     |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 8.3  | -   | 60.9 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 56.1 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 58.1 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 64.4 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 52.6 | 60  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 55.1 | 60  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.3 | 63.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 57.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 59.5 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 67.4 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 70.0 | 70  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 72.5 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | 8.3 | 80.3 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | -   | 74.3 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | 2    | -   | 76.8 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | 3.5                                 | -            | -    | 8.3 | 84.7 | 90  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | -    | -   | 73.4 | 80  |
|              |                   |            |      |     |                   |     |     |                  |      |      | -                      | -   | -   | -                                   | -                      | -                                   | -            | 2    | -   | 75.9 | 80  |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.3              | 83.8 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | -                | 77.8 | 80   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | 2   | -                | 80.3 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | 8.3              | 88.2 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | -                | 87.3 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | 2   | -                | 89.8 | 90   |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | -                 | -   | -   | 8.3              | 97.7 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | -                | 91.7 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | 2   | -                | 94.2 | 100  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |
| -            | -                 | -          | -    | -   | 3.5               | -   | -   | 8.3              | 102  | 110  |                        |     |     |                                     |                        |                                     |              |      |     |      |     |

## APPENDIX C UNIT DIMENSIONS

| Model            | A          | B         | C           | D         |
|------------------|------------|-----------|-------------|-----------|
| 15 Ton           | 133 - 7/8" | 88 - 1/2" | 51 - 11/16" | 5 - 5/32" |
| 20 Ton<br>25 Ton | 133 - 7/8" | 88 - 1/2" | 51          | 5 - 5/32" |



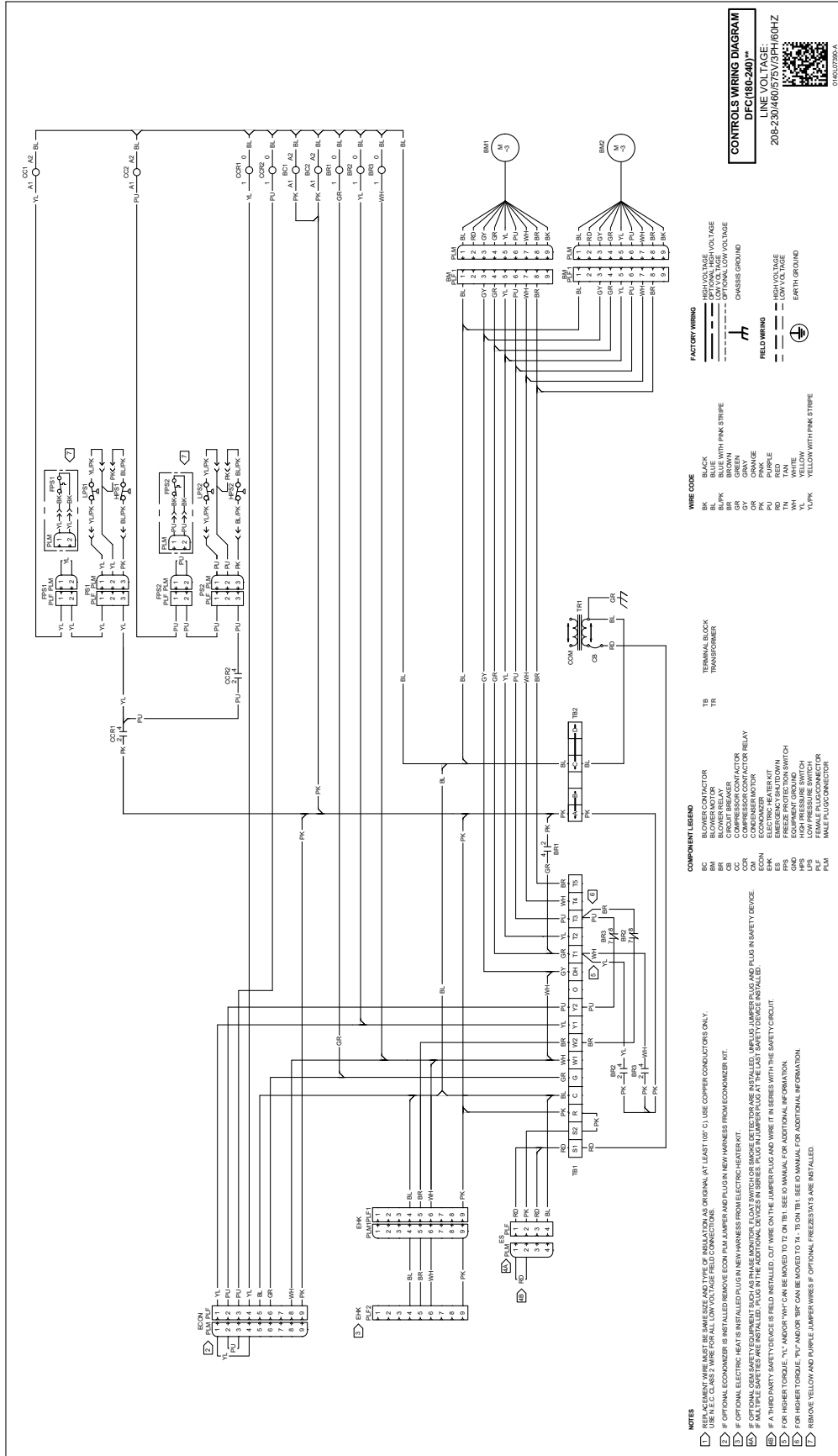
**NOTE:** 15 ton models have 3 fans.  
 20 ton models have 4 fans  
 25 ton models have 5 fans



VERTICAL DISCHARGE (TOP VIEW)

**WARNING**

**HIGH VOLTAGE!**  
 DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



**NOTES**

- 1. IF A THIRD PARTY SAFETY DEVICE IS FIELD INSTALLED, CUT WIRE ON THE JUMPER PLUG AND WIRE IT IN SERIES WITH THE SAFETY CIRCUIT.
- 2. FOR HIGHER TORQUE "L" AND/OR "W" CAN BE MOVED TO "H" OR "B1". SEE IO MANUAL FOR ADDITIONAL INFORMATION.
- 3. FOR HIGHER TORQUE "P" AND/OR "B" CAN BE MOVED TO "H" OR "B1". SEE IO MANUAL FOR ADDITIONAL INFORMATION.
- 4. REMOVE YELLOW AND PURPLE JUMPER WIRES IF OPTIONAL PRESSURE SWITCHES ARE INSTALLED.

**COMPONENT LEGEND**

- BF BLOWER MOTOR
- BR COMPRESSOR MOTOR
- CC COMPRESSOR CONTACTOR
- CO COIL
- CON CONDENSER MOTOR
- ECON ECONOMIZER
- ESK EMERGENCY STOP SWITCH
- ESK EMERGENCY STOP SWITCH
- ESK EMERGENCY STOP SWITCH
- ESK EMERGENCY STOP SWITCH
- HPS HIGH PRESSURE SWITCH
- PLP FEMALE PLUG CONNECTOR
- PLM MALE PLUG CONNECTOR

**WIRE CODE**

- BLK BLACK
- BLU BLUE
- BLK/PK BLUE WITH PINK STRIPE
- GRN GREEN
- GRN/PK GREEN WITH PINK STRIPE
- ORN ORANGE
- PKK PINK
- RED RED
- RD/PK RED WITH PINK STRIPE
- WHI WHITE
- YLK YELLOW
- YLK/PK YELLOW WITH PINK STRIPE

**FACTORY WIRING**

- HIGH VOLTAGE
- OPTIMAL VOLTAGE
- OPTIMAL VOLTAGE
- CHASSIS GROUND

**FIELD WIRING**

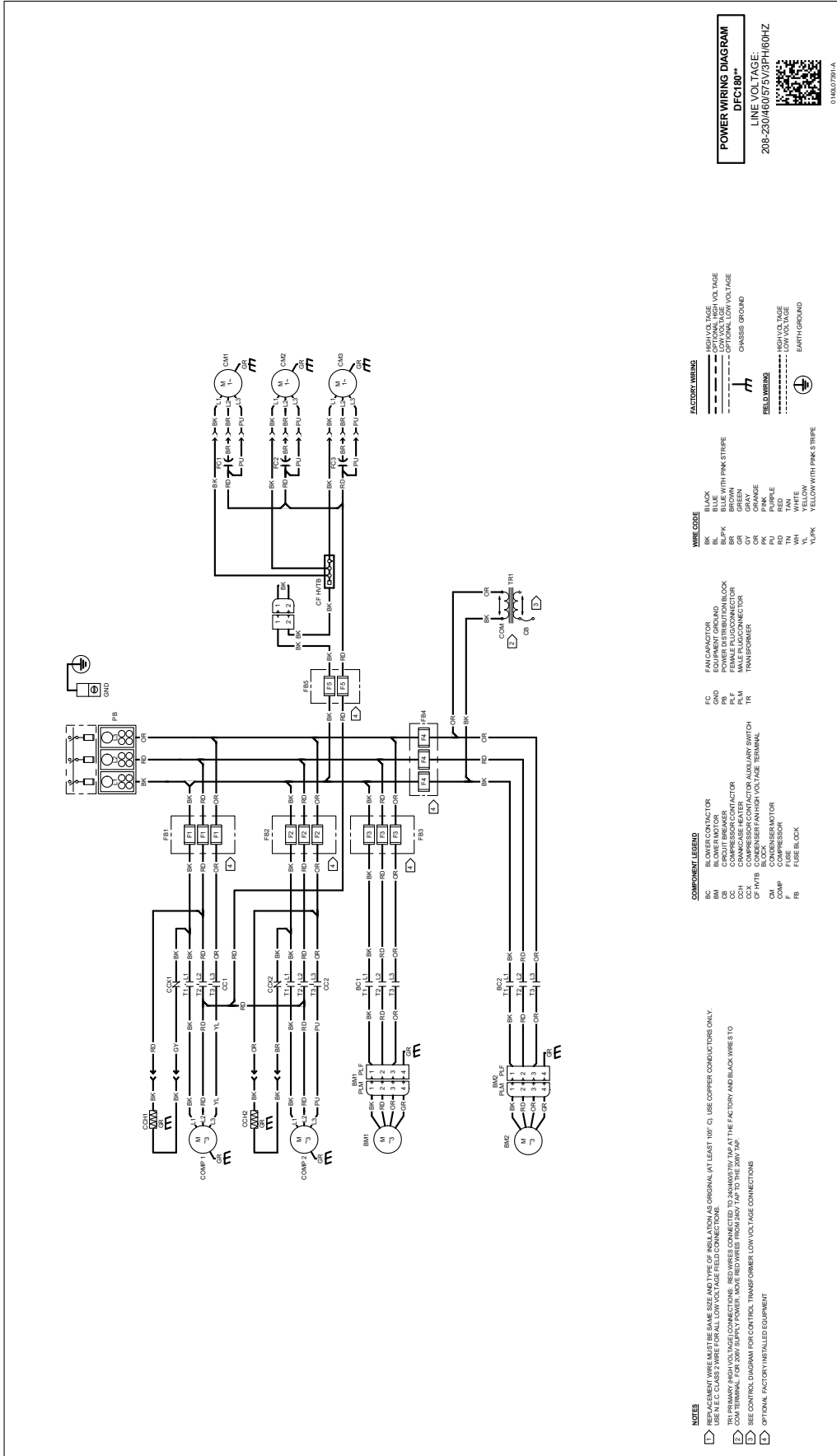
- HIGH VOLTAGE
- OPTIMAL VOLTAGE
- EARTH GROUND

**CONTROL WIRING DIAGRAM**  
 DFC180-240\*\*  
 LINE VOLTAGE:  
 208-230/480/575/3PH/60HZ

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

**WARNING**

**HIGH VOLTAGE!**  
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



- NOTES**
- 1. REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 105° C). USE COPPER CONDUCTORS ONLY.
  - 2. THE PRIMARY HIGH VOLTAGE CONNECTIONS, REQUIRES CONNECTED TO 240V/50% TAP AT THE FACTORY AND BLACK WIRE TO COM TERMINAL. FOR 208V SUPPLY POWER, MOVE RED WIRE FROM 240V TAP TO THE 208V TAP.
  - 3. SEE CONTROL DIAGRAM FOR CONTROL TRANSFORMER LOW VOLTAGE CONNECTIONS
  - 4. OPTIONAL FACTORY INSTALLED EQUIPMENT

- COMPONENT LEGEND**
- BC BLOWER CONTACTOR
  - CB CIRCUIT BREAKER
  - CH CHAMBER HEATER
  - CCX COMPRESSOR CONTACTOR AUXILIARY SWITCH
  - CT CT TRANSFORMER FOR VOLTAGE TAPPING
  - COMP COMPRESSOR
  - F FUSE
  - FBS FUSE BLOCK
  - FB FUSE BLOCK

- LEGEND**
- PANGLOSS CONTROL
  - GROUND
  - POWER DISTRIBUTION BLOCK
  - TRANSFORMER
  - MALE PLUG CONNECTOR
  - TR

- WIRE CODES**
- BK BLACK
  - BLK BLUE WITH PINK STRIPE
  - BL/PK BLUE WITH PINK STRIPE
  - GR GREEN
  - GY GRAY
  - PK PINK
  - RD RED
  - TR TAN
  - YL YELLOW
  - YL/PK YELLOW WITH PINK STRIPE

- FACTORY WIRING**
- OPTIMAL HIGH VOLTAGE
  - OPTIMAL LOW VOLTAGE
  - CHASSIS GROUND
  - FIELD WIRING
  - HIGH VOLTAGE
  - LOW VOLTAGE
  - EARTH GROUND

**POWER WIRING DIAGRAM**  
DFC180\*

LINE VOLTAGE:  
208-230/460/575/3PH/60HZ

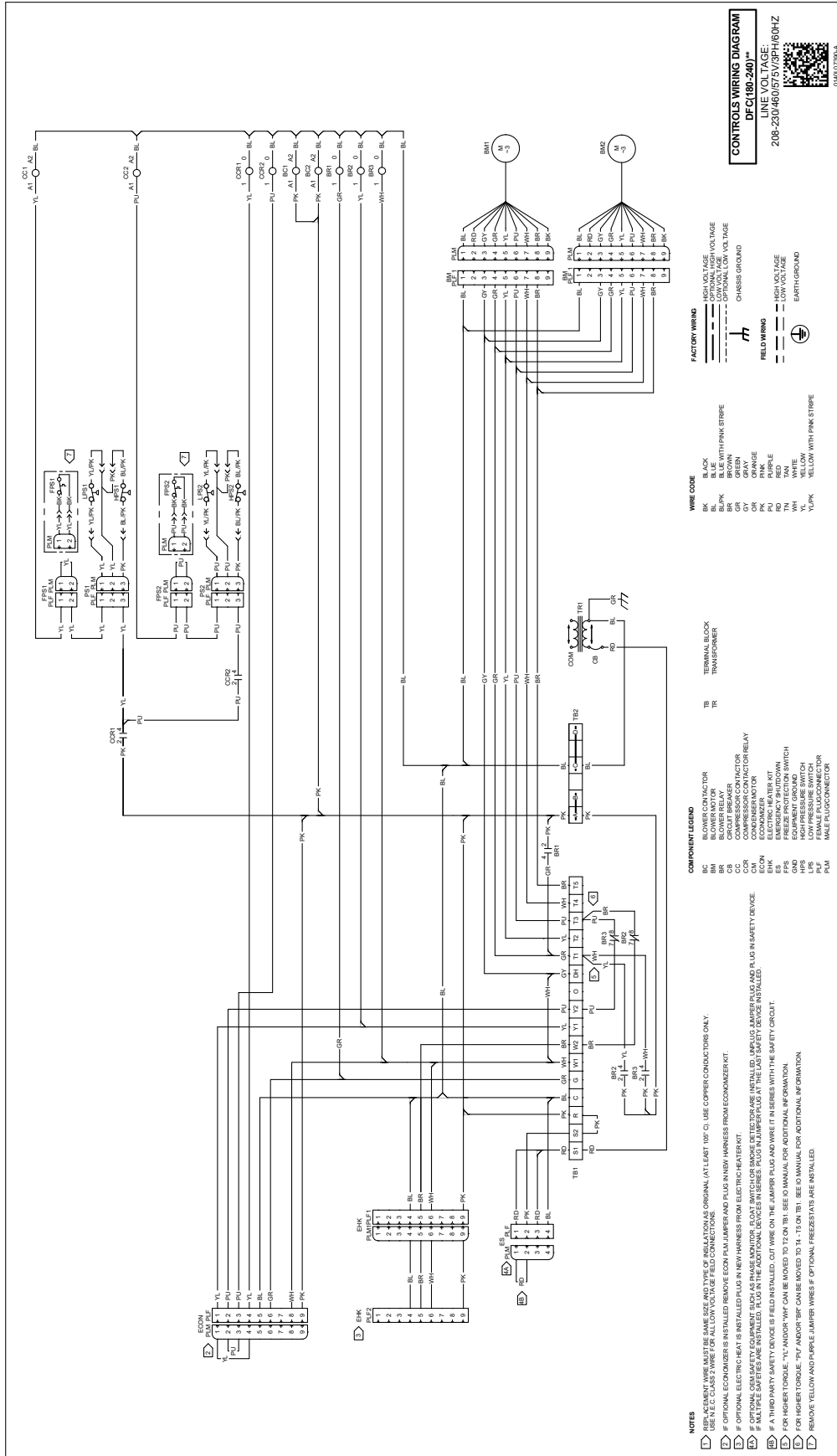


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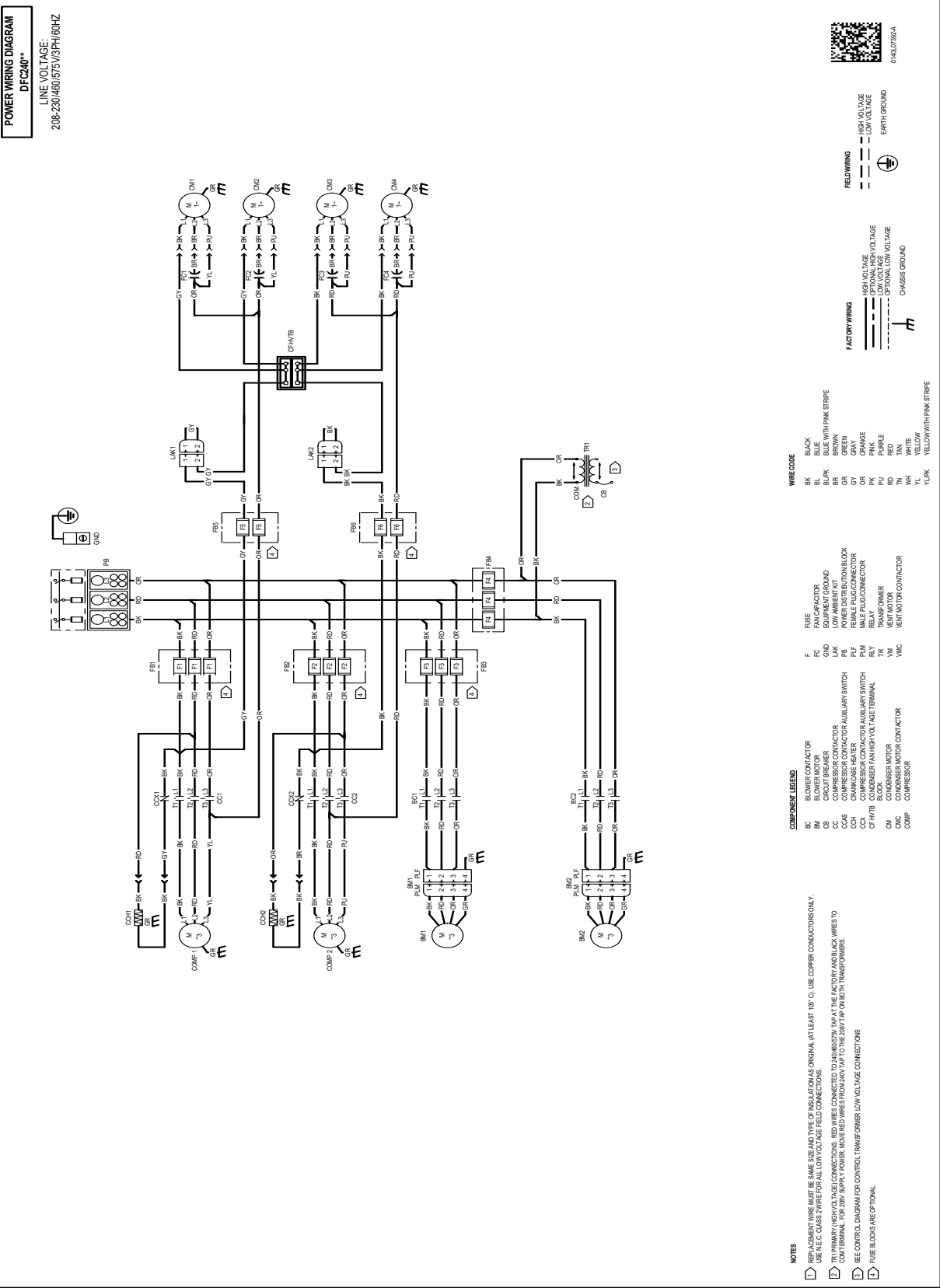
**WARNING**

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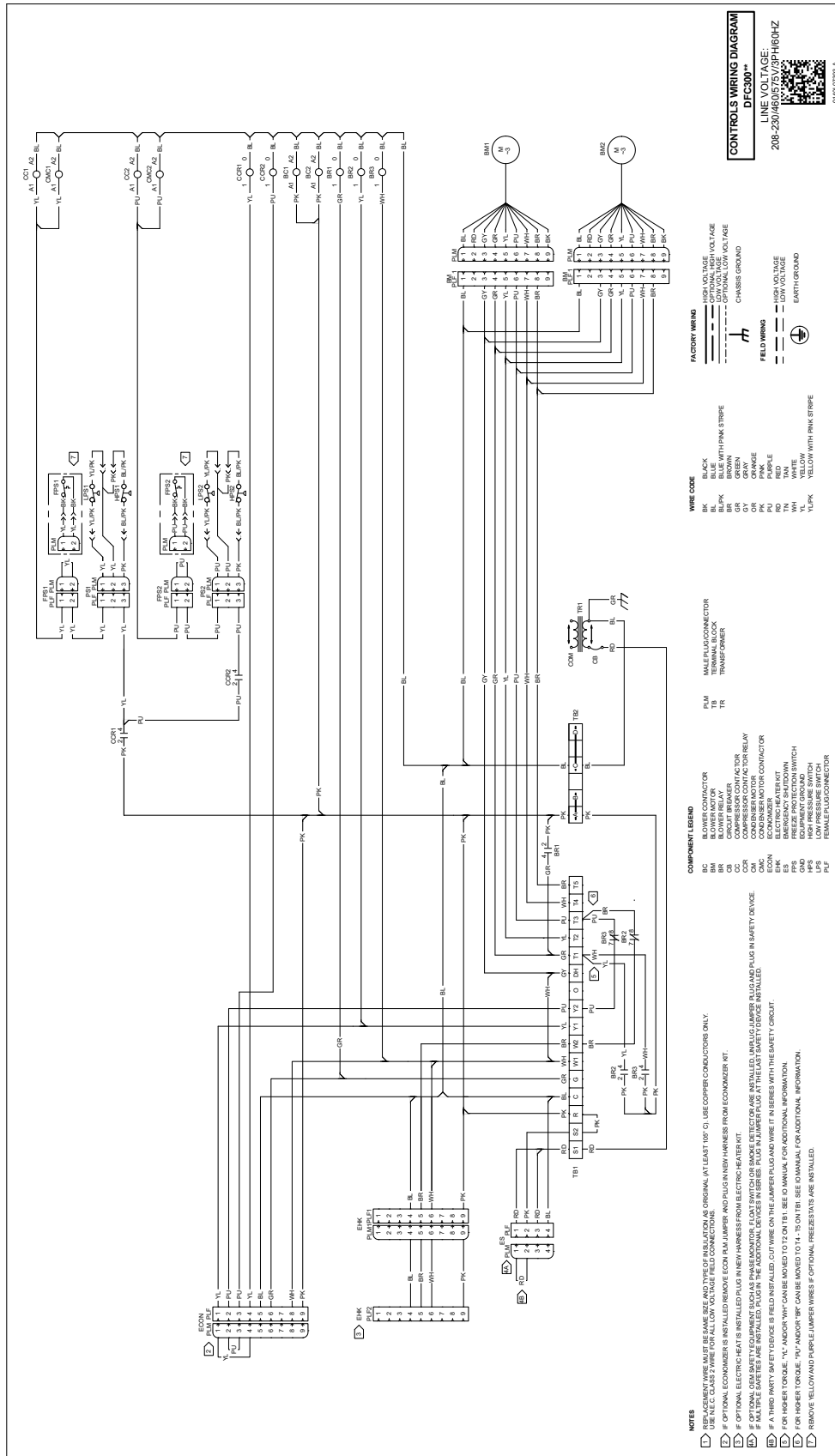
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

**WARNING**  
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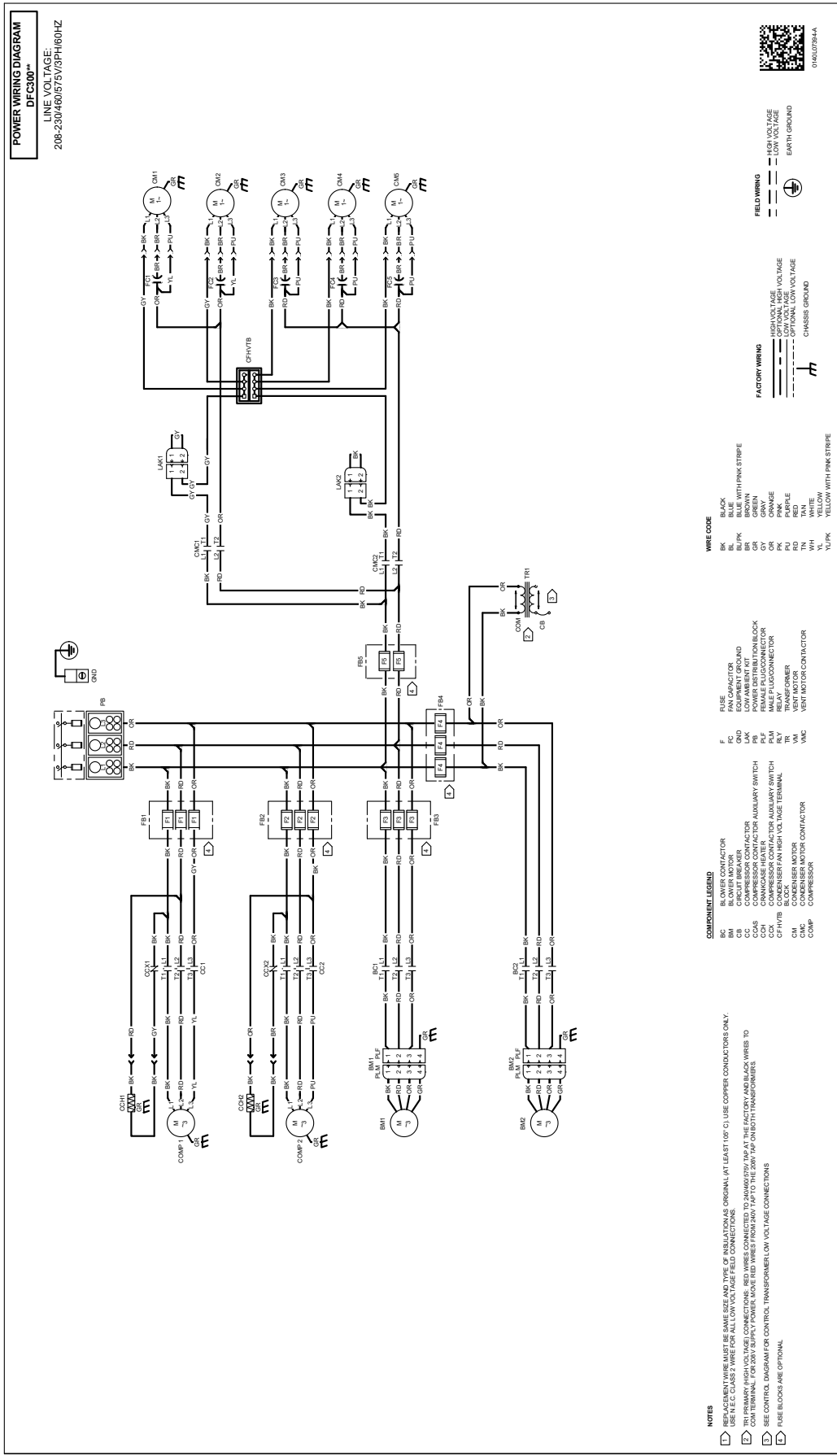


**WARNING**

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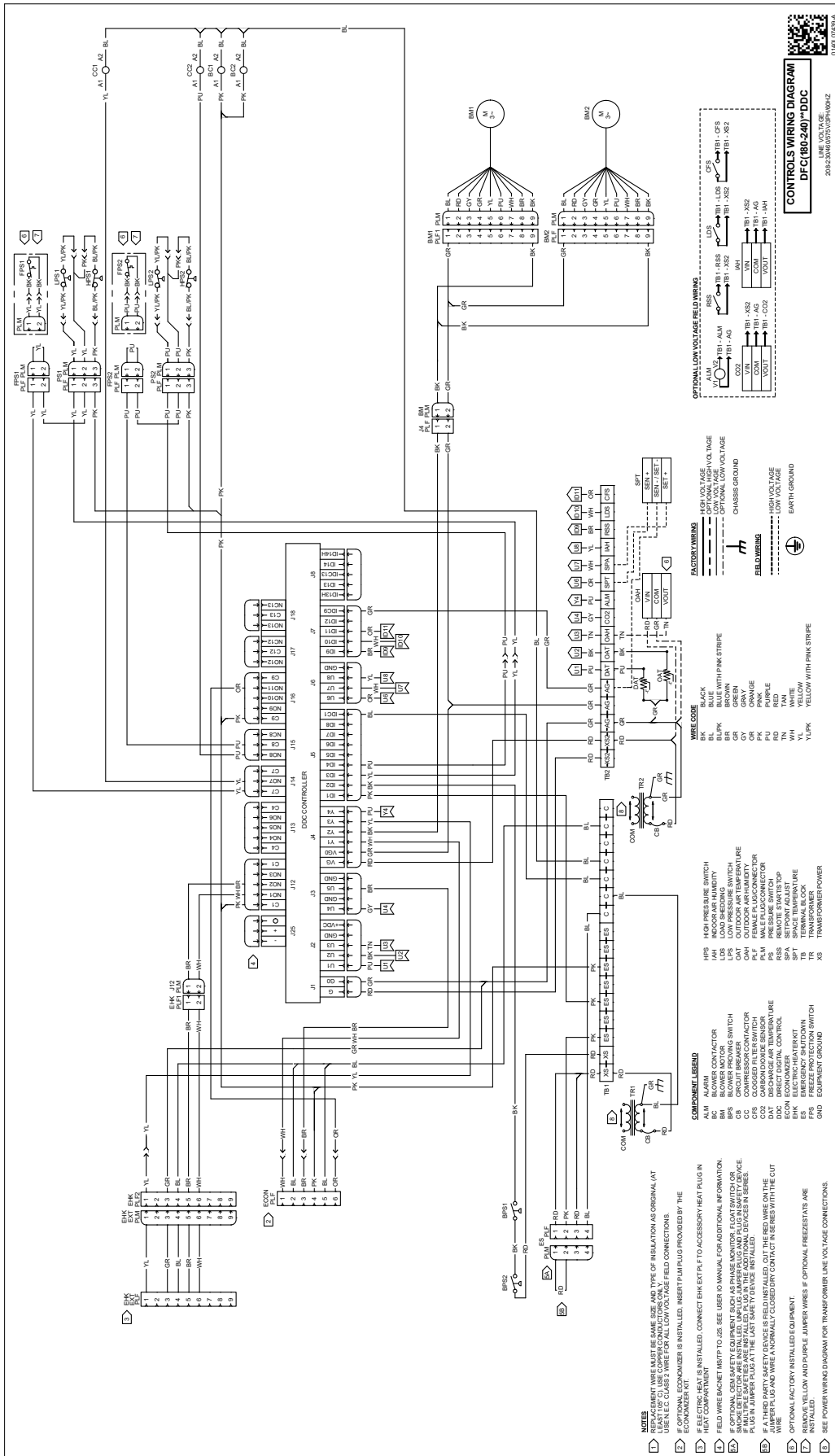




**HIGH VOLTAGE!**  
 DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



**WARNING**



- 1 NOTES
  - 1) IF ELECTRIC HEAT IS INSTALLED, CONNECT EHM EXTERIOR ACCESSORY HEAT PLUG IN HEAT COMPARTMENT
  - 2) FIELD WIRE BUCKET MUST BE TIGHT. USE USER MANUAL FOR ADDITIONAL INFORMATION.
  - 3) CO2 CARBON DIOXIDE SENSOR MUST BE INSTALLED IN SERIES WITH THE LINE VOLTAGE SWITCH. SENSITIVE TO CO2. WIRE FOR CO2 CARBON DIOXIDE SENSOR MUST BE INSTALLED IN SERIES WITH THE LINE VOLTAGE SWITCH.
  - 4) IF A THIRD PARTY SAFETY DEVICE IS FIELD INSTALLED, CUT THE RED WIRE ON THE WIRE PLUG AND WIRE A NORMALLY CLOSED DRY CONTACT IN SERIES WITH THE CUT WIRE PLUG AND WIRE.
  - 5) OPTIONAL FACTORY INSTALLED EQUIPMENT.
  - 6) REMOVE YELLOW AND PURPLE JUMPER WIRES IF OPTIONAL FREEZESTATS ARE INSTALLED.
  - 7) SEE POWERWIRING DIAGRAM FOR TRANSFORMER LINE VOLTAGE CONNECTIONS.
- 2 COMPONENT LEGEND
  - AM BLOWER MOTOR
  - BA BLOWER MOTOR
  - CR COMPRESSOR CONTACTOR
  - CC COMPRESSOR CONTACTOR
  - CO2 CARBON DIOXIDE SENSOR
  - DDT DIRECT DIGITAL CONTROL
  - ECOM ECONOMIZER
  - ES FREEZE PROTECTION SWITCH
  - EMK EMERGENCY SHUTDOWN EQUIPMENT GROUND
  - ERS MOTOR SAFETY SWITCH
  - LVS LOAD SHEDDING SWITCH
  - LDS LOAD SHEDDING SWITCH
  - OAT OUTDOOR AIR TEMPERATURE
  - OHM OUTDOOR AIR HUMIDITY
  - PLM MAKE PLUG CONNECTOR
  - RSS RELUCTANCE SWITCH
  - SPA SETPOINT ADJUST
  - TR TRANSFORMER
  - TB TRANSFORMER POWER
- 3 WIRE CODE
  - BL BLACK
  - BU BLUE
  - BRK BRN WITH PINK STRIPE
  - BRK BRN
  - GR GRN
  - OR ORN
  - PK PINK
  - RD RED
  - RO RED
  - WH WHT
  - YL YLK
  - YLN YLN WITH PINK STRIPE
- 4 FACTORY WIRING
  - HIGH VOLTAGE
  - OPTIONAL HIGH VOLTAGE
  - OPTIONAL LOW VOLTAGE
  - CHASSIS GROUND
- 5 FIELD WIRING
  - HIGH VOLTAGE
  - LOW VOLTAGE
  - EARTH GROUND
- 6 OPTIONAL LOW VOLTAGE FIELD WIRING
  - ALM ALM
  - VCO2 VCO2
  - CO2 CO2
  - RS RS
  - RS1 RS1
  - RS2 RS2
  - RS3 RS3
  - RS4 RS4
  - RS5 RS5
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- 7 CONTROLS WIRING DIAGRAM
 

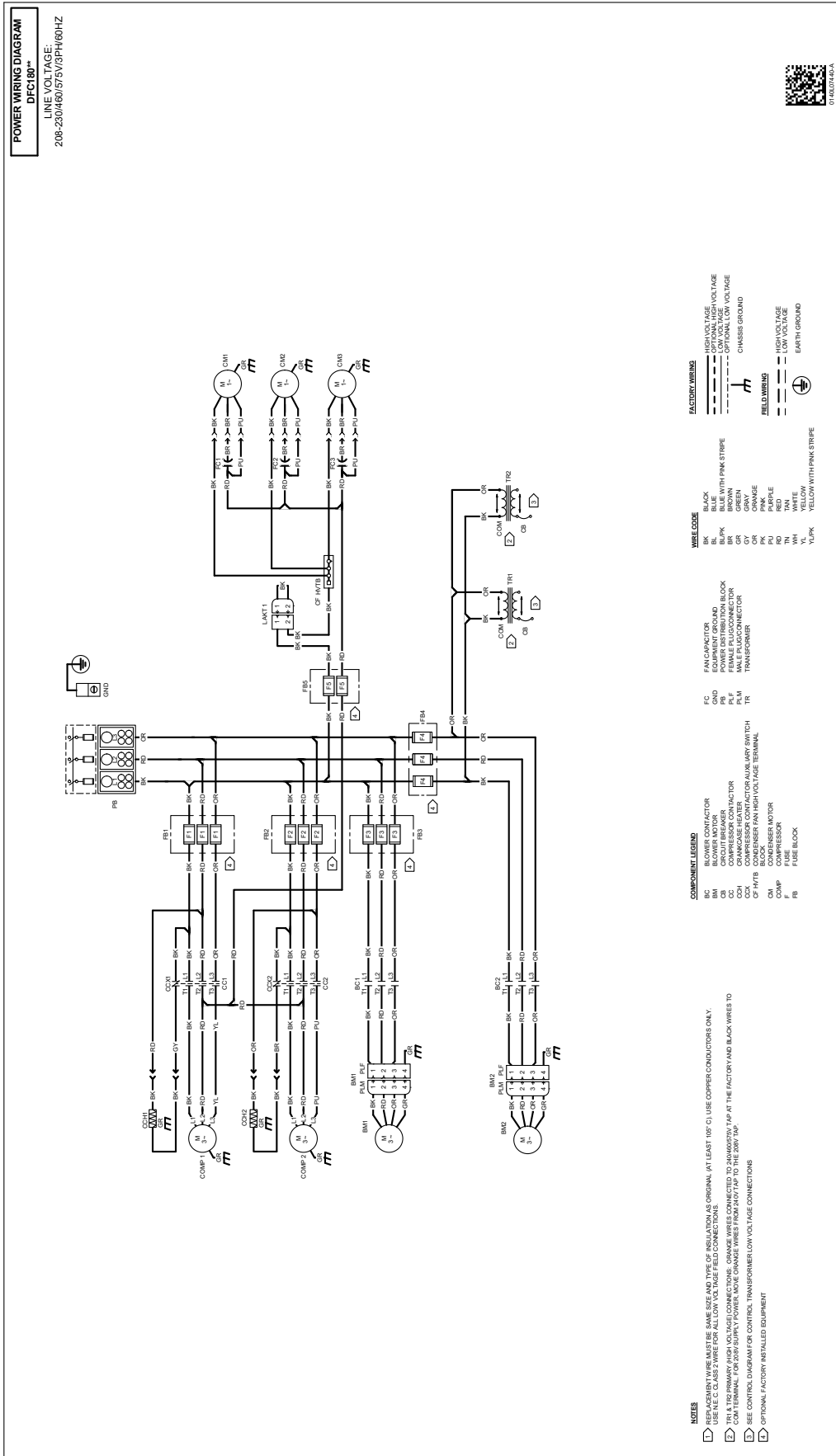
DFC180-240™ DDC

2018-2019 MODEL YEAR

0162010018

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

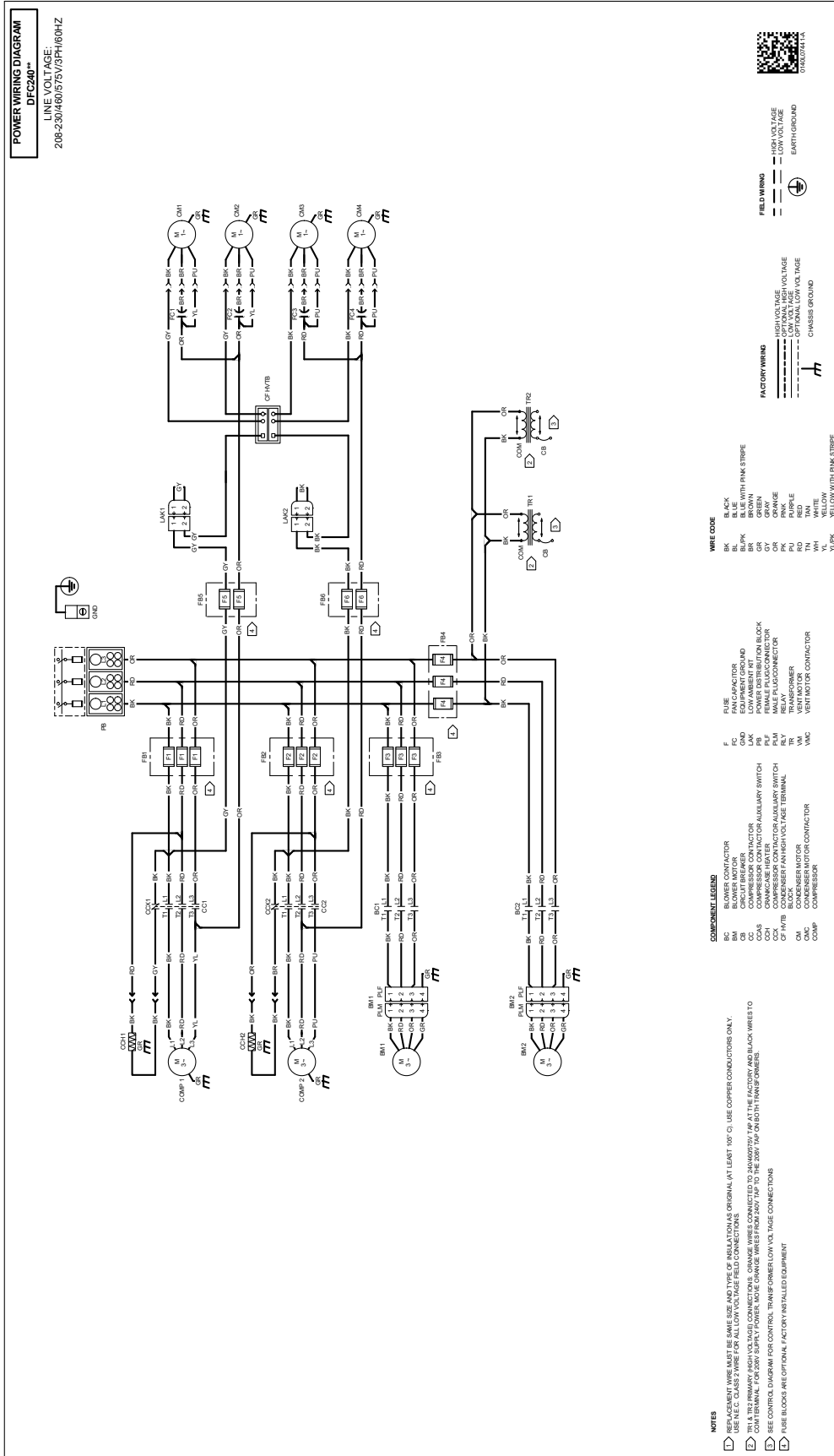
**WARNING**  
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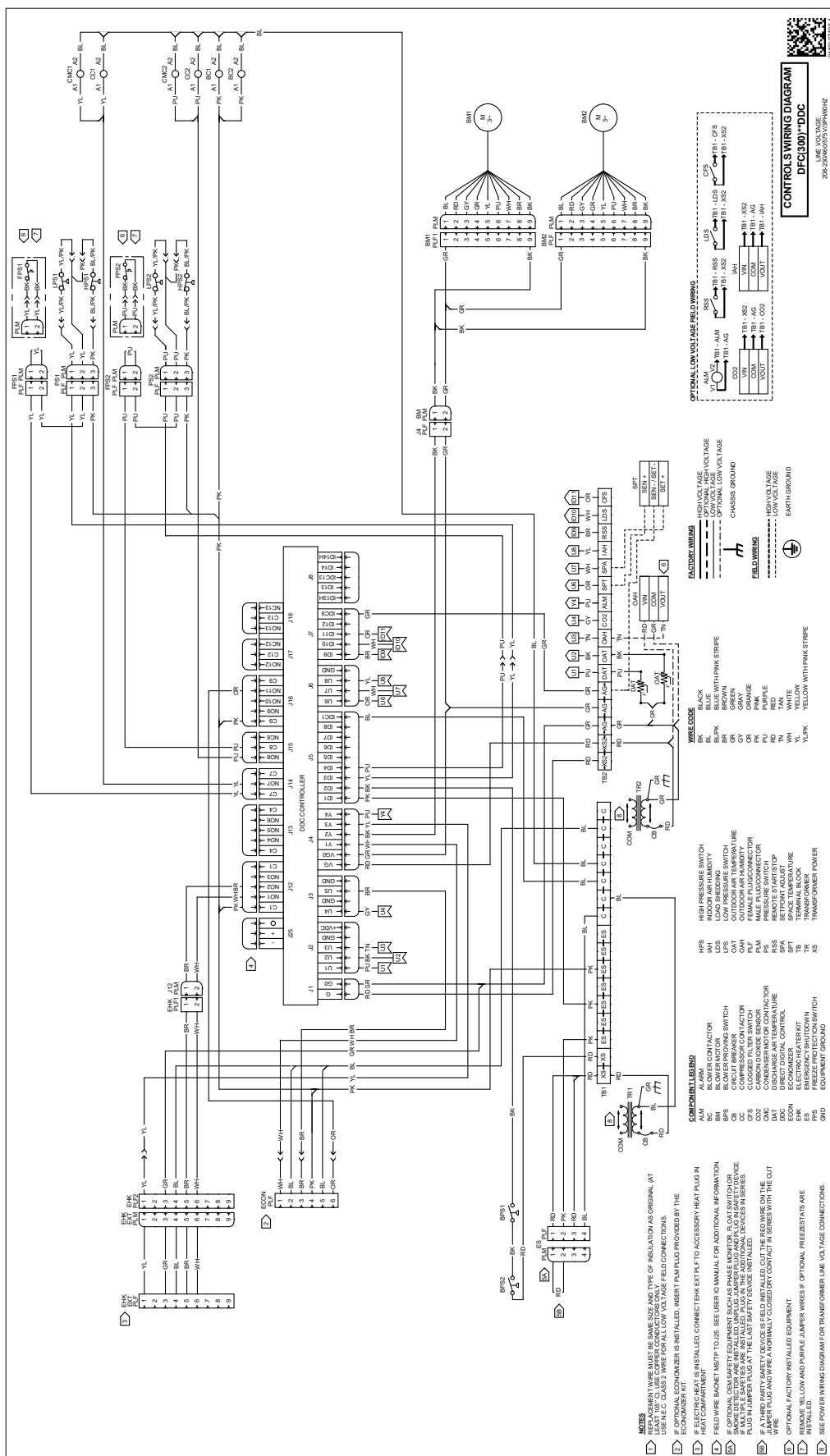
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**WARNING**

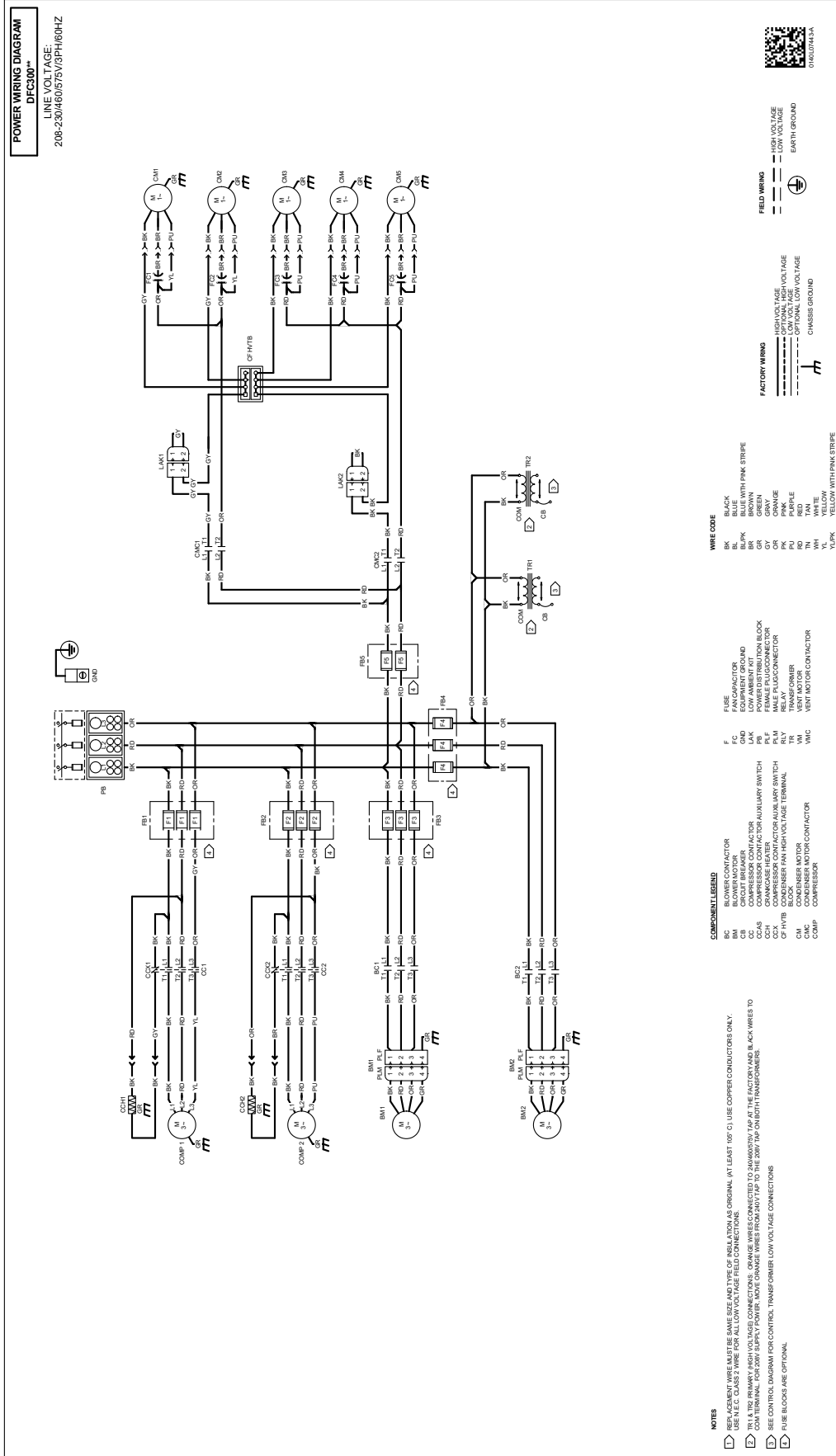
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Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



# Start-up Checklist

*\*Store in job file*

Date: \_\_\_\_\_ Location: \_\_\_\_\_  
Model Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Technician: \_\_\_\_\_ Unit #: \_\_\_\_\_

## Pre Start-Up

*(Check each item as completed)*

- Verify all packaging material has been removed.
- Remove all shipping brackets per installation instructions.
- Verify the job site voltage agrees with the unit serial plate.
- Verify condensate connection is installed per installation instructions.
- Verify proper clearance around the unit for safety, service, maintenance and proper unit operation.
- Verify proper weatherproofing of all ductwork, roof curbs and electrical connections.
- Check that the flue screen is in place.
- Check gas piping for leaks.
- Verify gas pressure to the unit is within the range specified on the serial plate.
- Check to ensure that all fans, pulleys and wheels are secure.
- Check for proper belt tension and alignment per installation instructions.
- Check refrigerant piping for rubbing and leaks. *Repair if necessary.*
- Check unit wiring to ensure it is not in contact with refrigerant piping or sharp metal edges.
- Check all electrical connections and terminals. *Tighten as needed.*
- Verify that the crankcase heaters have been energized for 24 hours.
- Verify the scroll compressor(s) are rotating in the right direction.
- Verify all accessories are installed and operating correctly.
- Check filters and replace if necessary.
- Verify the installation of the thermostat.



# Start-up Checklist

**Start-Up**  
*(Insert the values as each item is completed.)*

**ELECTRICAL**

|                           |         |       |         |       |         |       |
|---------------------------|---------|-------|---------|-------|---------|-------|
| Supply Voltage            | L1 - L2 | _____ | L2 - L3 | _____ | L3 - L1 | _____ |
| Circuit 1 Compressor Amps | L1      | _____ | L2      | _____ | L3      | _____ |
| Circuit 2 Compressor Amps | L1      | _____ | L2      | _____ | L3      | _____ |
| Blower Amps               | L1      | _____ | L2      | _____ | L3      | _____ |
| Condenser Fan Amps        | Fan 1   | _____ | Fan 2   | _____ | Fan 3   | _____ |

**BLOWER EXTERNAL STATIC PRESSURE**

|                                |       |          |
|--------------------------------|-------|----------|
| Return Air Static Pressure     | _____ | IN. W.C. |
| Supply Air Static Pressure     | _____ | IN. W.C. |
| Total External Static Pressure | _____ | IN. W.C. |
| Blower Wheel RPM               | _____ | RPM      |

**TEMPERATURES**

|                                |       |    |       |    |
|--------------------------------|-------|----|-------|----|
| Outdoor Air Temperature        | _____ | DB | _____ | WB |
| Return Air Temperature         | _____ | DB | _____ | WB |
| Cooling Supply Air Temperature | _____ | DB | _____ | WB |
| Heating Supply Air Temperature | _____ | DB |       |    |

**PRESSURES**

|                            |       |                     |       |                      |
|----------------------------|-------|---------------------|-------|----------------------|
| Gas Inlet Pressure         | _____ | IN. W.C.            |       |                      |
| Gas Manifold Pressure      | _____ | IN. W.C. (Low Fire) | _____ | IN. W.C. (High Fire) |
| Suction Circuit 1          | _____ | PSIG                | _____ | °F                   |
| Superheat (Orifice System) |       |                     | _____ | °F                   |
| Suction Circuit 2          | _____ | PSIG                | _____ | °F                   |
| Superheat (Orifice System) |       |                     | _____ | °F                   |
| Discharge Circuit 1        | _____ | PSIG                | _____ | °F                   |
| Subcooling (TXV System)    |       |                     | _____ | °F                   |
| Discharge Circuit 2        | _____ | PSIG                | _____ | °F                   |
| Subcooling (TXV System)    |       |                     | _____ | °F                   |

**(HEAT PUMP ONLY)**

|                     |       |      |       |    |
|---------------------|-------|------|-------|----|
| Suction Circuit 1   | _____ | PSIG | _____ | °F |
| Suction Circuit 2   | _____ | PSIG | _____ | °F |
| Discharge Circuit 1 | _____ | PSIG | _____ | °F |
| Discharge Circuit 2 | _____ | PSIG | _____ | °F |



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**CUSTOMER FEEDBACK**

Daikin is very interested in all product comments.  
Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



Our continuing commitment to quality products may mean a change in specifications without notice.

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19001 Kermier Rd. Waller, TX 77484

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