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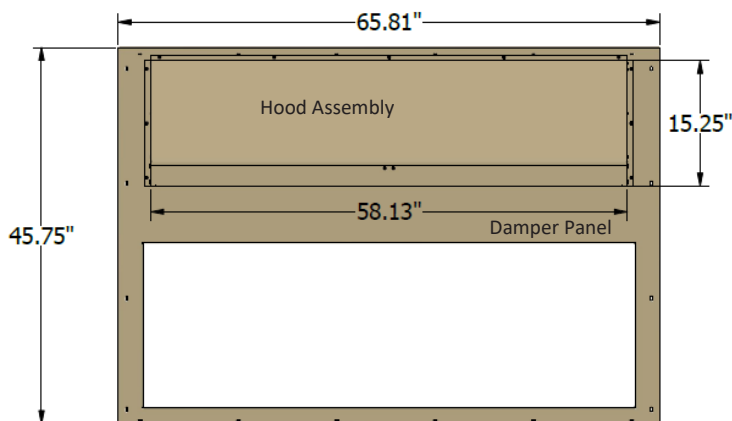
MANUAL 25% FRESH AIR DAMPER
WITH DUCT FLANGE CONNECTION FITS
DAIKIN D*G180-300 AND D*C180-300
SANDSTONE BEIGE

APPLICATION

Most building codes require a certain amount of fresh air to overcome the effects of CO2 during times when the space is occupied. Use of fresh air dampers on HVAC equipment is an inexpensive way to allow fresh air into the building. McDaniel Metals offers this fresh air damper with a horizontal duct opening to fit Daikin light commercial packaged equipment. The manual fresh air dampers can be adjusted to provide up to 25% fresh air to circulate at all times.

DAMPER INSTALLATION AND ADJUSTMENT

1. Remove the damper assembly from the container and inspect for damage or shortages.
2. Locate and remove the evaporator access panel. Retain the screws for use in step 3.
3. Attach the damper assembly in place of the evaporator access panel using the screws removed in step 2 and weatherproof panel with an approved sealant.
4. Remove the hood assembly from the damper panel.
5. Loosen the adjustment screws of the damper slide panels and adjust slide panels for the correct amount of fresh air required. Tighten adjustment screws.
6. Re-attach the hood to the damper panel.



DETERMINING DAMPER SET POINT

While it is possible to estimate the amount of fresh air by visually adjusting the manual fresh air damper, a more accurate determination can be made using a digital thermometer and the equation below.

$$(To \times OA) + (Tr \times RA) = Tm$$

To = Outdoor air temperature
OA= Percent of outdoor air
Tr = Return air temperature
RA= Percent of return air
Tm= Resulting mixed air temperature

Example:

Fresh air required is 10% outdoor air.
Outdoor air temperature is 60 degrees F.
Return air temperature is 75 degrees F.
 $(0.1 \times 60) + (0.9 \times 75) =$
 $6.0 + 67.5 = 73.5$

Mixed air temperature will be 73.5 degrees F when the OA is 60 degrees F and the RA is 75 degrees F with 10% outdoor air.

