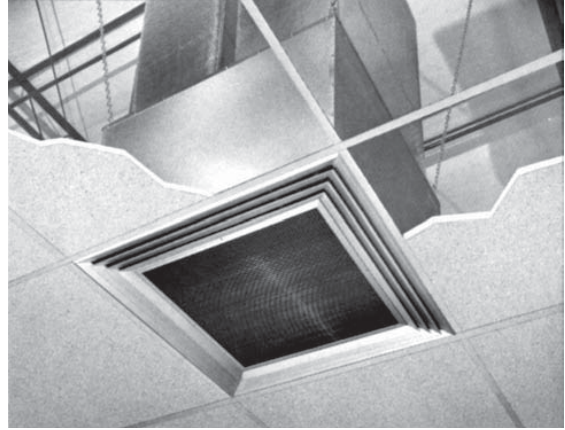


510 SERIES - FLUSH MOUNT CONCENTRIC DIFFUSER SYSTEM



**LIGHT COMMERCIAL
"T" BAR CEILING**



**COMMERCIAL
"T" BAR CEILING**

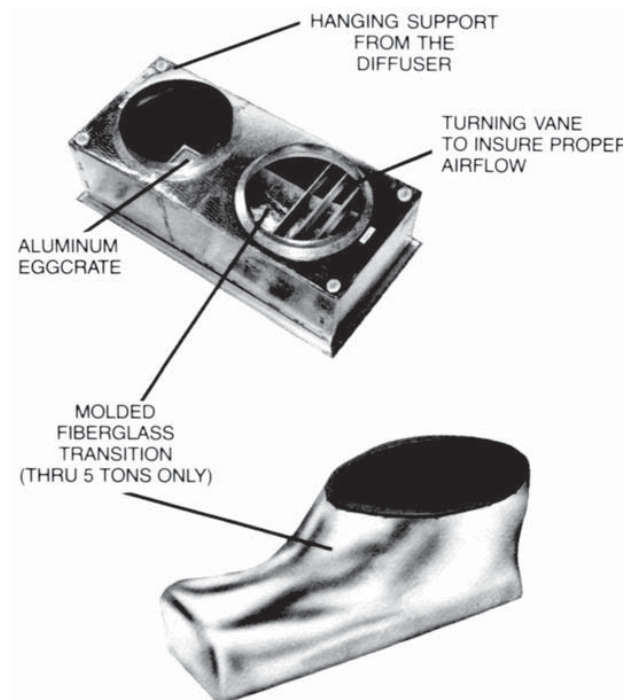
510 SERIES concentric diffuser systems are designed to provide a single point air distribution system. The systems may be used with either a "T-Bar" ceiling or a plaster ceiling.

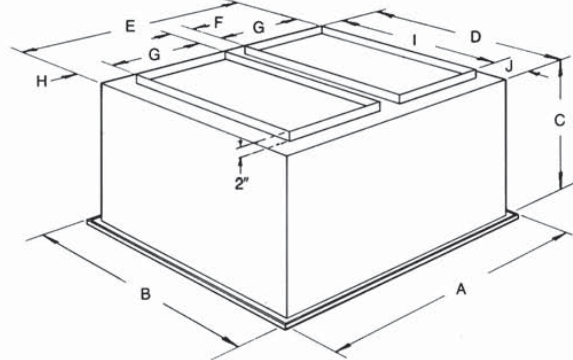
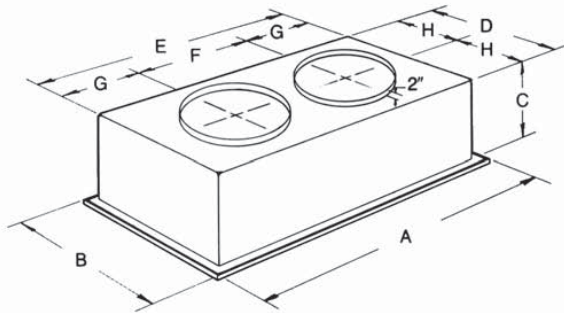
Standard features include:

1. All aluminum diffuser with aluminum return air eggcrate.
2. Built-in Anti-Sweat gasket.
3. Molded Fiberglass Transition (through five tons).
4. Built-in hanging supports.
5. Diffuser box constructed of fiberglass ductboard (through 7.5 tons) or sheetmetal.

Standard benefits include:

1. Even four (4) way airflow.
2. Lightweight design.
3. Factory assembled and sealed.
4. Guaranteed not to "sweat".
5. Guaranteed not to recirculate air flow (short cycle).
6. Return air eggcrate is easily removed.
7. Units are fully insulated (both supply and return).





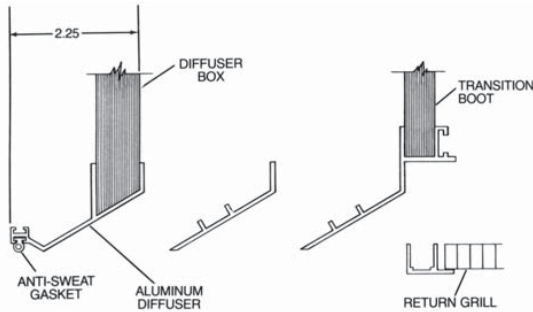
510 SERIES CONCENTRIC DIFFUSER
ENGINEERING DATA

DIMENSIONAL DATA

MODEL NO	A	B	C	D	E	F	G	H	I	J	DUCT SIZE
CDK36	47 5/8	23 5/8	13 1/2	21	45	22 1/2	11 1/4	10 1/2	--	--	16RD
CDK4872	47 5/8	23 5/8	13 1/2	21	45	22 1/2	11 1/4	10 1/2	--	--	18RD
CDK90	47 5/8	29 5/8	16 5/8	27	45	22 1/2	11 1/4	13 1/2	--	--	20RD

MODEL NO	A	B	C	D	E	F	G	H	I	J	DUCT SIZE
CDK120	47 5/8	35 5/8	23 1/4	33	45	4 1/2	18	2 1/4	28	2 1/2	18x28
CDK150	47 5/8	41 5/8	29 1/4	39	45	4 1/2	18	2 1/4	32	3 1/4	18x32
CDK180	47 5/8	47 5/8	29 1/4	45	45	4 1/2	18	2 1/4	36	4 1/2	18x36
CDK140	59 5/8	59 5/8	35 1/4	57	57	4 1/2	24	2 1/4	48	4 1/2	24x48
CDK300	59 5/8	59 5/8	35 1/4	57	57	4 1/2	24	2 1/4	54	1 1/2	24x54

PART No	CFM	Statistic Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
CDK36	600	.09	10-14	234	417	18
	800	.11	12-18	313	556	20
	1000	.14	15-20	391	694	20
	1200	.17	16-22	469	833	25
	1400	.20	17-24	547	972	30
CDK4872	1000	.14	15-20	391	694	20
	1200	.17	16-22	469	833	25
	1400	.20	17-24	547	972	30
	1600	.24	18-25	625	1111	30
	1800	.30	20-28	703	1250	35
	2000	.36	21-29	781	1389	40
	2200	.40	22-30	859	1528	40
CDK90	2600	.17	19-24	663	1294	30
	2800	.20	20-28	714	1393	35
	3000	.25	21-29	765	1492	35
	3200	.31	22-29	816	1592	40
	3400	.37	22-30	867	1692	40
CDK120	3600	.17	22-29	844	1646	35
	3800	.18	22-30	891	1737	40
	4000	.21	24-33	938	1829	40
	4200	.24	26-35	985	1920	40
	4400	.27	28-37	1032	2011	40
CDK150	4600	.31	25-34	922	1795	40
	4800	.32	26-35	962	1873	40
	5000	.34	27-36	1002	1951	40
	5200	.36	30-39	1043	2029	45
	5400	.39	32-41	1083	2107	45
CDK180	5600	.36	28-37	1000	2082	45
	5800	.39	29-38	1036	2156	45
	6000	.42	40-50	1071	2230	45
	6200	.46	42-51	1107	2308	50
	6400	.50	43-52	1143	2379	50
	6600	.54	45-56	1179	2454	50
	7200	.39	26-35	996	2093	45
	7400	.41	28-37	1024	2151	45
CDK240	7600	.43	29-38	1051	2209	45
	7800	.47	40-50	1079	2276	45
	8000	.50	42-51	1107	2326	50
	8200	.53	43-52	1134	2384	50
	8400	.56	44-54	1162	2442	50
	8600	.59	46-57	1189	2500	50
	8800	.63	48-59	1217	2558	50
	9400	.39	30-40	1014	2114	45
CDK300	9600	.41	32-41	1036	2159	45
	9800	.43	35-43	1057	2204	45
	10000	.45	37-46	1079	2249	45
	10200	.47	40-50	1101	2294	45
	10400	.50	42-51	1122	2339	50
	10600	.53	43-53	1144	2384	50



TYPICAL SPECIFICATIONS

Furnish and install McDaniel Metals, Inc. "510 SERIES" concentric diffuser systems. The system shall consist of an aluminum supply diffuser with an aluminum eggcrate return. It shall also have a permanent (not adhesive) anti-sweat gasket and hanging supports. All units that are five (5) tons and smaller shall have a molded fiberglass interior transition.

- Notes: 1. All data is based on the Air Diffusion Council Guidelines
- 2. Throw data is based on Terminal Velocities of 75 FPM using isothermal air
- 3. Actual noise levels are less than those shown.

