

## CDF SERIES FLUSH MOUNT DIFFUSERS

Ruskin CDF series flush mount concentric diffuser systems are designed to provide a single point air distribution system. The systems may be used in either a T-Bar or plaster ceiling.

### STANDARD CONSTRUCTION

#### DIFFUSER

Extruded aluminum with aluminum return air eggcrate

#### DIFFUSER BOX

Fiberglass ductboard thru 3400 CFM  
Galvanized steel above

#### TRANSITION

Molded fiberglass thru 2200 CFM  
Galvanized steel above

#### GASKET

Permanent non adhesive anti-sweat

#### HANGING SUPPORTS

Four (4) eye bolts at corners

### T-BAR CEILING LIGHT COMMERCIAL



### FEATURES

- Even 4 way airflow
- Lightweight design
- Factory assembled and sealed
- Guaranteed not to "sweat"
- Guaranteed not to recirculate air flow
- Easily removeable return air eggcrate
- Supply and return are fully insulated

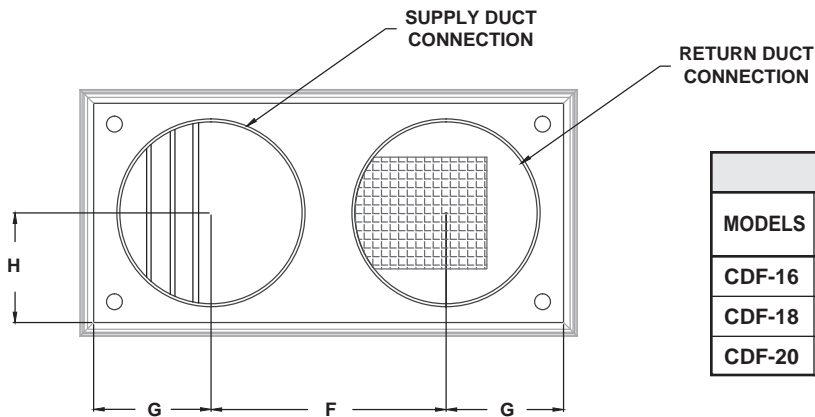
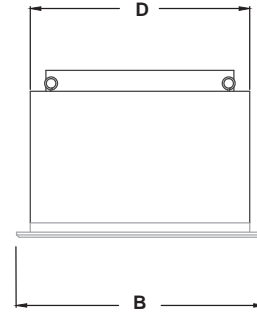
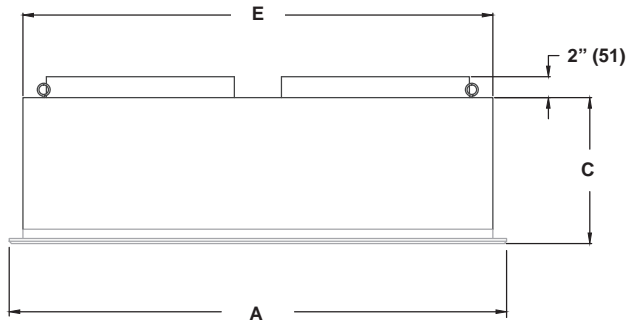
### ENGINEERING DATA

MODEL	CFM	STATIC PRESSURE	THROW FEET	NECK VEL.	JET VEL.	NOISE LEVEL
CDF-16	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
CDF-18	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
CDF-20	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
CDF-22	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
	CDF-50	4600	.31	25-34	922	1795
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
CDF-60		5600	.36	28-37	1000	2082
	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
	CDF-80	7200	.39	26-35	996	2093
7600		.43	29-38	1051	2209	45
8000		.50	42-51	1107	2326	50
8400		.56	44-54	1162	2442	50
8800		.63	48-59	1217	2558	50
CDF-100		9400	.39	30-40	1014	2114
	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
CDF-300	10000	.57	37-46	713	1506	35
	10500	.65	42-51	749	1582	35
	11000	.72	46-56	785	1657	35
	11500	.81	50-61	820	1732	40
	12000	.90	54-66	856	1808	40
	12500	.99	58-71	892	1883	40
	13000	1.10	62-75	927	1958	40

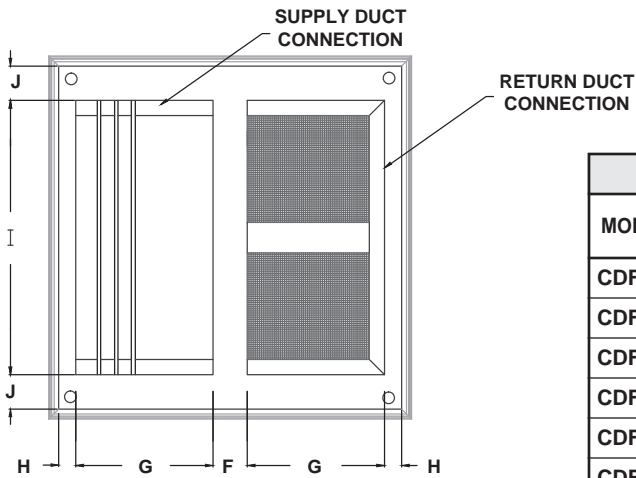
### NOTES:

- 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.

# CDF SERIES DIMENSIONAL DATA



DIMENSIONAL DATA									
MODELS	A	B	C	D	E	F	G	H	DUCT SIZE
<b>CDF-16</b>	47 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>2</sub>	21	45	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	16 RD
<b>CDF-18</b>	47 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>2</sub>	21	45	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	18 RD
<b>CDF-20</b>	47 <sup>5</sup> / <sub>8</sub>	29 <sup>5</sup> / <sub>8</sub>	16 <sup>5</sup> / <sub>8</sub>	27	45	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	20 RD



DIMENSIONAL DATA											
MODELS	A	B	C	D	E	F	G	H	I	J	DUCT SIZE
<b>CDF-22</b>	47 <sup>5</sup> / <sub>8</sub>	35 <sup>5</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>	33	45	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>4</sub>	28	2 <sup>1</sup> / <sub>2</sub>	18 x 28
<b>CDF-50</b>	47 <sup>5</sup> / <sub>8</sub>	41 <sup>5</sup> / <sub>8</sub>	29 <sup>1</sup> / <sub>4</sub>	39	45	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>4</sub>	32	3 <sup>1</sup> / <sub>4</sub>	18 x 32
<b>CDF-60</b>	47 <sup>5</sup> / <sub>8</sub>	47 <sup>5</sup> / <sub>8</sub>	29 <sup>1</sup> / <sub>4</sub>	45	45	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>4</sub>	36	4 <sup>1</sup> / <sub>2</sub>	18 x 36
<b>CDF-80</b>	59 <sup>5</sup> / <sub>8</sub>	59 <sup>5</sup> / <sub>8</sub>	35 <sup>1</sup> / <sub>4</sub>	57	57	4 <sup>1</sup> / <sub>2</sub>	24	2 <sup>1</sup> / <sub>4</sub>	48	4 <sup>1</sup> / <sub>2</sub>	24 x 48
<b>CDF-100</b>	59 <sup>5</sup> / <sub>8</sub>	59 <sup>5</sup> / <sub>8</sub>	35 <sup>1</sup> / <sub>4</sub>	57	57	4 <sup>1</sup> / <sub>2</sub>	24	2 <sup>1</sup> / <sub>4</sub>	54	1 <sup>1</sup> / <sub>2</sub>	24 x 54
<b>CDF-300</b>	63 <sup>5</sup> / <sub>8</sub>	63 <sup>5</sup> / <sub>8</sub>	40	63 <sup>1</sup> / <sub>8</sub>	63 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	28	1 <sup>1</sup> / <sub>4</sub>	60	1 <sup>1</sup> / <sub>2</sub>	28 x 60