

## CDS SERIES SIDE DISCHARGE DIFFUSERS

Ruskin CDS series side discharge concentric diffuser systems are designed to provide a single point air distribution system with the added benefit of having directional air control. The systems may be used with either a T-Bar ceiling, a plaster ceiling, or with no ceiling.

### STANDARD CONSTRUCTION

#### DIFFUSER

Extruded aluminum with aluminum return air eggcrate

#### DIFFUSER BOX

Fiberglass ductboard thru 3400 CFM  
Galvanized steel above

#### DIFFUSER BLADES

Double deflection design secured by spring steel.

#### TRANSITION

Molded fiberglass thru 2200 CFM  
Galvanized steel above

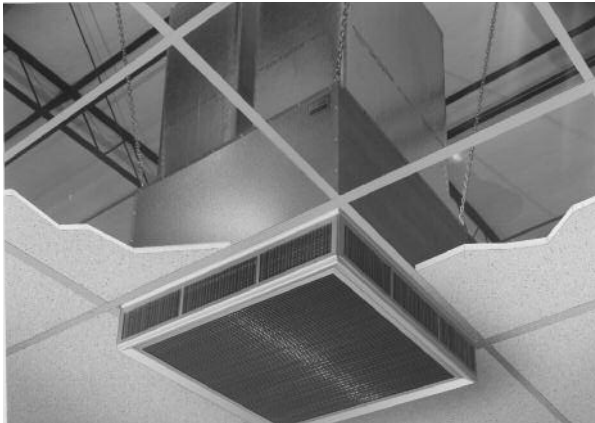
#### GASKET

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

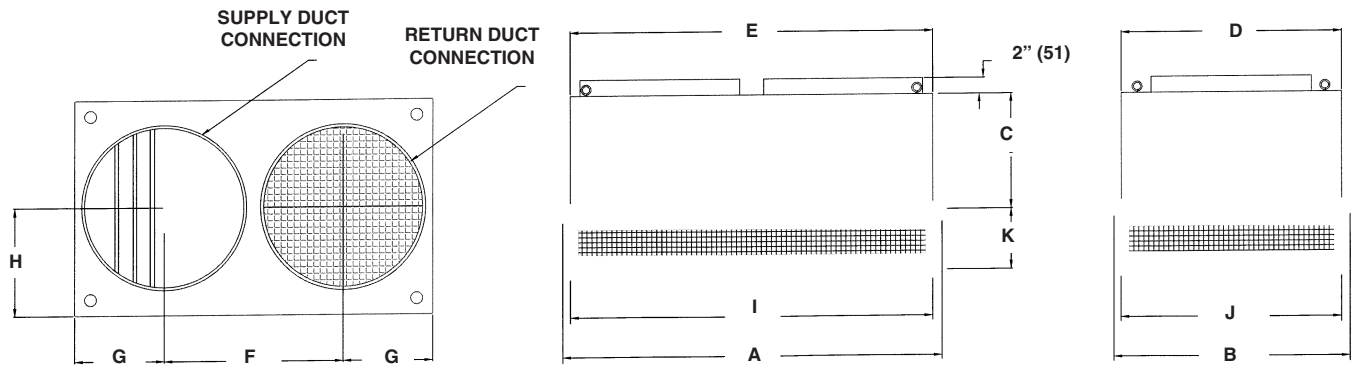
### ENGINEERING DATA

MODEL	CFM	STATIC PRESSURE	THROW FEET	NECK/ JET VEL.	NOISE LEVEL
CDS-16	600	.09	8-15	210	20
	800	.11	9-16	281	20
	1000	.14	10-17	351	20
	1200	.17	11-18	421	20
CDS-18	1200	.17	11-18	421	20
	1400	.20	12-19	491	20
	1600	.24	12-20	561	20
	1800	.30	13-21	632	20
	2000	.36	14-23	702	20
	2200	.40	16-25	772	20
CDS-20	2600	.17	24-29	669	20
	2800	.20	25-30	720	25
	3000	.25	27-33	772	25
	3200	.31	28-35	823	25
	3400	.37	30-37	874	30
CDS-22	3600	.17	25-33	851	30
	3800	.18	27-35	898	30
	4000	.21	29-37	946	30
	4200	.24	32-40	993	30
	4400	.27	34-42	1040	30
CDS-50	4600	.31	26-31	841	30
	4800	.32	27-32	878	30
	5000	.34	28-33	915	30
	5200	.36	28-34	951	30
	5400	.39	29-35	988	30
CDS-60	5600	.36	39-49	920	30
	5800	.39	42-51	954	30
	6000	.42	44-54	1022	30
	6200	.46	45-55	1056	30
	6400	.50	46-55	1090	30
	6600	.54	47-56	1124	30
CDS-80	7200	.39	33-38	827	25
	7600	.43	36-41	873	25
	8000	.50	39-44	918	30
	8400	.56	43-49	964	30
	8800	.63	47-55	1010	30
CDS-100	9200	.74	49-57	1056	50
	9400	.80	50-58	1079	55
	9600	.83	52-62	1102	55
	9800	.86	55-63	1125	55
	10000	1.00	57-65	1148	55
	10200	1.07	60-68	1171	60
CDS-300	10400	1.16	63-71	1194	60
	10000	.51	46-54	907	30
	10500	.58	50-58	953	30
	11000	.65	53-61	998	30
	11500	.73	55-64	1043	30
	12000	.82	58-67	1089	30
	12500	.91	61-71	1134	30
13000	1.00	64-74	1179	35	

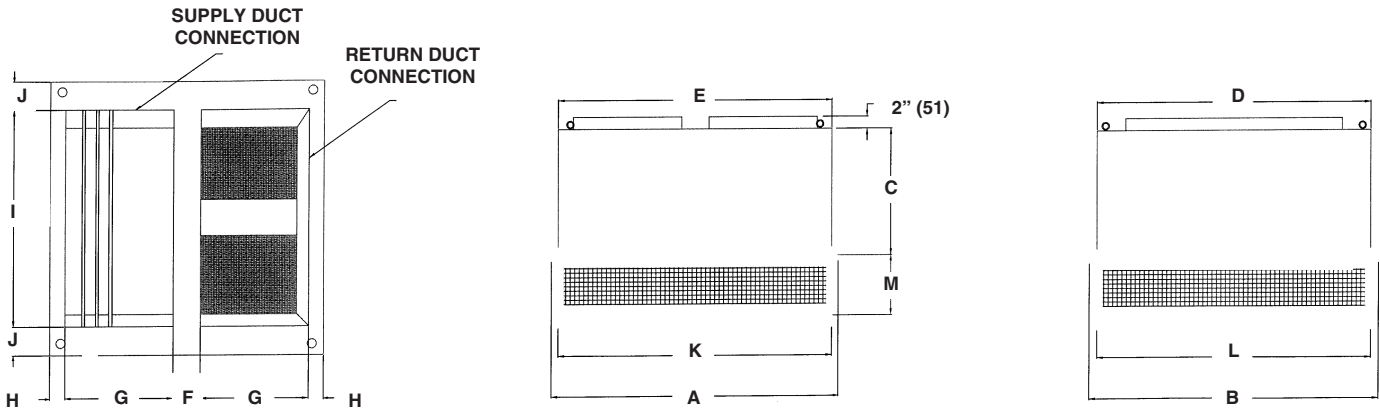
### NOTES:

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.
4. Throw is based on diffuser blades being directed in a straight pattern.

# CDS SERIES DIMENSIONAL DATA



DIMENSIONAL DATA												
MODELS	A	B	C	D	E	F	G	H	I	J	K	DUCT SIZE
<b>CDS-16</b>	47 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	10 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>8</sub>	16 RD
<b>CDS-18</b>	47 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	10 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>8</sub>	18 RD
<b>CDS-20</b>	47 <sup>5</sup> / <sub>8</sub>	29 <sup>5</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>8</sub>	20 RD



DIMENSIONAL DATA														
MODELS	A	B	C	D	E	F	G	H	I	J	K	L	M	DUCT SIZE
<b>CDS-22</b>	47 <sup>5</sup> / <sub>8</sub>	35 <sup>5</sup> / <sub>8</sub>	20 <sup>5</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>2</sub>	28	2 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>8</sub>	18 x 28
<b>CDS-50</b>	47 <sup>5</sup> / <sub>8</sub>	41 <sup>5</sup> / <sub>8</sub>	24 <sup>5</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>2</sub>	32	3 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	39 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>8</sub>	18 x 32
<b>CDS-60</b>	47 <sup>5</sup> / <sub>8</sub>	47 <sup>5</sup> / <sub>8</sub>	24 <sup>5</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	18	2 <sup>1</sup> / <sub>2</sub>	36	4 <sup>3</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>8</sub>	18 x 36
<b>CDS-80</b>	59 <sup>5</sup> / <sub>8</sub>	59 <sup>5</sup> / <sub>8</sub>	30 <sup>5</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>2</sub>	57 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	24	2 <sup>1</sup> / <sub>2</sub>	48	4 <sup>3</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>2</sub>	57 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>8</sub>	24 x 48
<b>CDS-100</b>	59 <sup>5</sup> / <sub>8</sub>	59 <sup>5</sup> / <sub>8</sub>	30 <sup>5</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>2</sub>	57 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	24	2 <sup>1</sup> / <sub>2</sub>	54	1 <sup>3</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>2</sub>	57 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>8</sub>	24 x 54
<b>CDS-300</b>	65 <sup>5</sup> / <sub>8</sub>	65 <sup>5</sup> / <sub>8</sub>	40 <sup>1</sup> / <sub>2</sub>	63 <sup>1</sup> / <sub>2</sub>	63 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	28	1 <sup>1</sup> / <sub>2</sub>	60	1 <sup>3</sup> / <sub>4</sub>	63 <sup>1</sup> / <sub>2</sub>	63 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	28 x 60



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