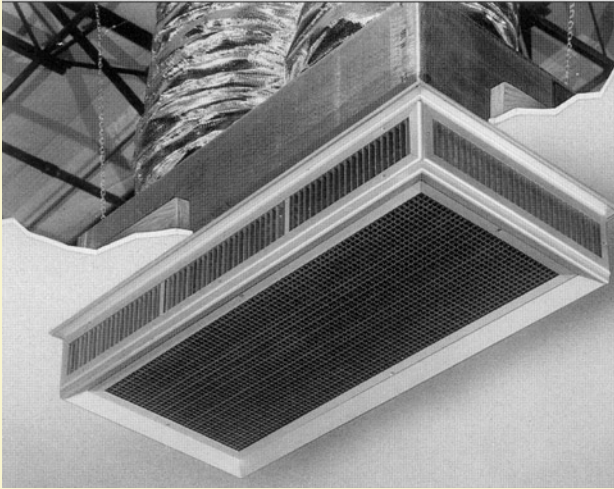


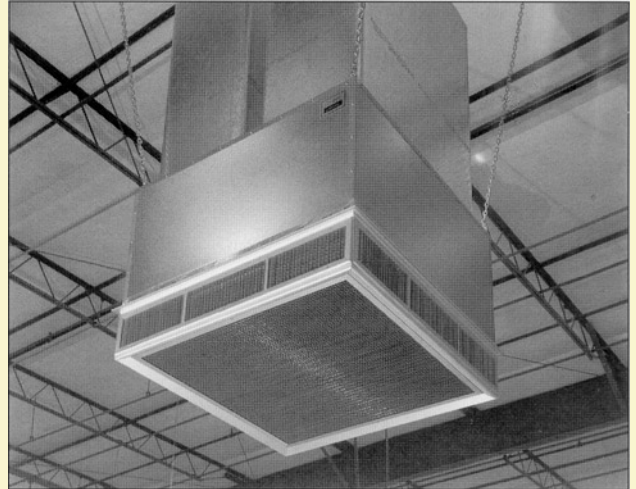
# 535 SERIES

## SIDE DISCHARGE CONCENTRIC DIFFUSER WITH FILTER GRILL

### LIGHT COMMERCIAL PLASTER CEILING



### COMMERCIAL NO CEILING



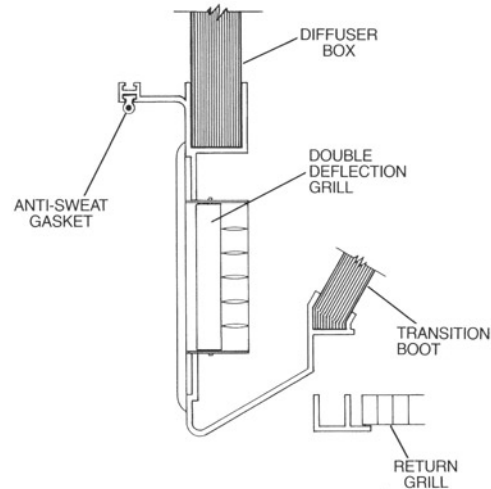
RSI's 535 SERIES concentric diffuser systems are designed to provide a single point air distribution system with the added benefit of having directional air control and a return air filter. The systems may be used with either a "T-Bar" ceiling, a plaster ceiling, or with no ceiling at all.

#### Standard features include:

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

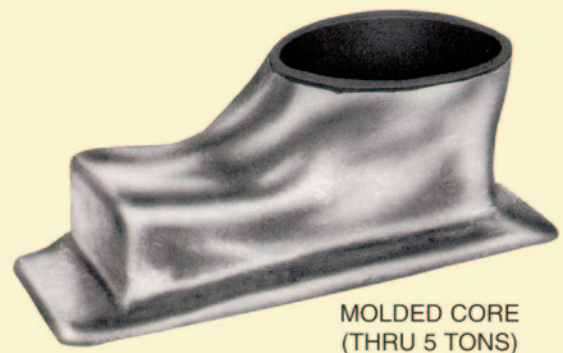
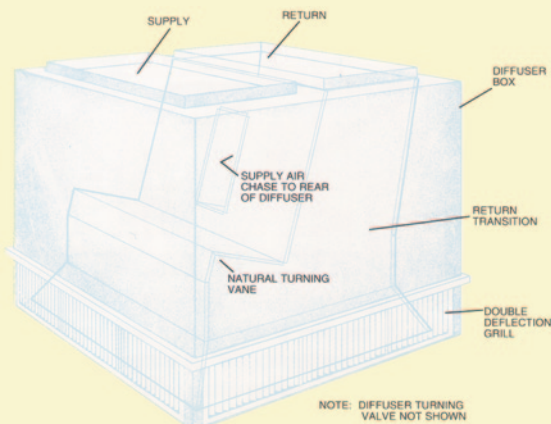
#### Standard benefits include:

1. Even four (4) way airflow.
2. All exposed surfaces (below ceiling) are brushed aluminum.
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).
8. Lightweight design.



### TYPICAL SPECIFICATIONS

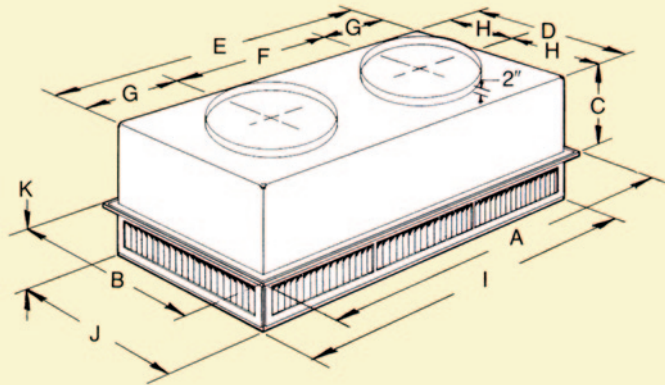
Furnish and install Rooftop Systems "535 SERIES" concentric diffuser systems. The system shall consist of an aluminum supply diffuser with an aluminum eggcrate filter grill return. ALL EXPOSED SURFACES (BELOW CEILING) MUST BE BRUSHED ALUMINUM. It shall also have a permanent (not adhesive) anti-sweat gasket and hanging supports. All units that are five (5) tons and smaller shall have a molded fiberglass interior transition.



# 535 SERIES

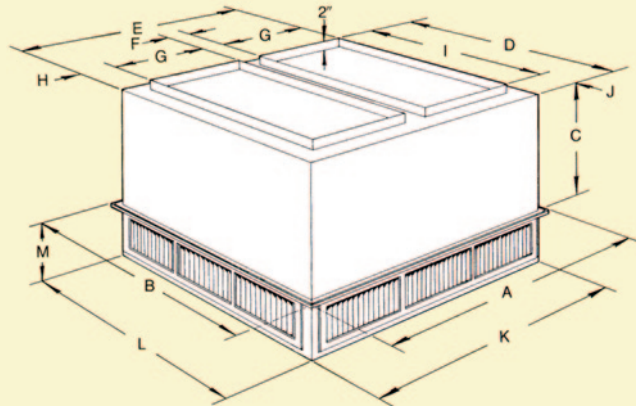
## SIDE DISCHARGE CONCENTRIC DIFFUSER WITH FILTER GRILL

### 535 SERIES CONCENTRIC DIFFUSER ENGINEERING DATA



DIMENSIONAL DATA

MODEL #	A	B	C	D	E	F	G	H	I	J	K	DUCT SIZE
01-535-16	47 5/8	23 5/8	11 3/8	21 1/2	45 1/2	22 1/2	11 1/2	10 1/2	45 1/2	21 1/2	7 1/8	16 RD
01-535-18	47 5/8	23 5/8	11 3/8	21 1/2	45 1/2	22 1/2	11 1/2	10 1/2	45 1/2	21 1/2	7 1/8	18 RD
01-535-20	47 5/8	29 5/8	14 3/8	27 1/2	45 1/2	22 1/2	11 1/2	13 1/2	45 1/2	27 1/2	7 1/8	20 RD



DIMENSIONAL DATA

MODEL #	A	B	C	D	E	F	G	H	I	J	K	L	M	DUCT SIZE
01-535-22	47 5/8	35 5/8	20 5/8	33 1/2	45 1/2	18	18	2 1/2	28	2 3/4	45 1/2	33 1/2	9 1/8	18x28
01-535-50	47 5/8	41 5/8	24 5/8	39 1/2	45 1/2	4 1/2	18	2 1/4	32	3 3/4	45 1/2	39 1/2	9 1/8	18x32
01-535-60	47 5/8	47 5/8	24 5/8	45 1/2	45 1/2	18	18	2 1/2	36	4 3/4	45 1/2	45 1/2	10 1/8	18x36
01-535-80	59 5/8	59 5/8	30 5/8	57 1/2	57 1/2	4 1/2	24	2 1/2	48	4 3/4	57 1/2	57 1/2	11 1/8	24x48
01-535-100	59 5/8	59 5/8	30 5/8	57 1/2	57 1/2	4 1/2	24	2 1/4	54	1 3/4	57 1/2	57 1/2	11 1/8	24x54
01-535-300	65 5/8	65 5/8	40 1/2	63 1/2	63 1/2	4 1/4	28	1 1/2	60	1 3/4	63 1/2	63 1/2	12 1/2	28x60

Model #	CFM	Static Pressure	Throw in Feet	Neck/Jet Velocity	Noise Level
01-535-16	600	0.09	8-15	210	20
	800	0.11	9-16	281	20
	1000	0.14	10-17	351	20
	1200	0.17	11-18	421	20
01-535-18	1200	0.17	11-18	421	20
	1400	0.20	12-19	491	20
	1600	0.24	12-20	561	20
	1800	0.30	13-21	632	20
	2000	0.36	14-23	702	20
	2200	0.40	16-25	772	20
01-535-20	2600	0.17	24-29	669	20
	2800	0.20	25-30	720	25
	3000	0.25	27-33	772	25
	3200	0.31	28-35	823	25
	3400	0.37	30-37	874	30
01-535-22	3600	0.17	25-33	851	30
	3800	0.18	27-35	898	30
	4000	0.21	29-37	946	30
	4200	0.24	32-40	993	30
01-535-50	4600	0.31	26-31	841	30
	4800	0.32	27-32	878	30
	5000	0.34	28-33	915	30
	5200	0.36	28-34	951	30
	5400	0.39	29-35	988	30
01-535-60	5600	0.36	39-49	920	30
	5800	0.39	42-51	954	30
	6000	0.42	44-54	1022	30
	6200	0.46	44-55	1056	30
	6400	0.50	46-55	1090	30
	66000	0.54	47-56	1124	30
01-535-80	7200	0.39	33-38	827	25
	7600	0.43	36-41	873	25
	8000	0.50	39-44	918	30
	8400	0.56	43-49	964	30
	8800	0.63	47-55	1010	30
01-535-100	9600	0.83	52-62	1102	55
	10000	1.00	57-65	1148	55
	10400	1.16	63-71	1194	60
01-535-300	10000	0.51	46-54	907	30
	10500	0.58	50-58	953	30
	11000	0.65	53-61	998	30
	11500	0.73	55-64	1043	30
	12000	0.82	58-67	1089	30
	12500	0.91	61-71	1134	30
	13000	1.00	64-74	1179	35

Notes:

- All data is based on the Air Diffusion Council guidelines.
- Throw data is based on Terminal Velocities of 75 FPM using isothermal air.
- Actual noise levels are less than those shown.
- Throw is based on diffuser blades being directed in straight pattern.