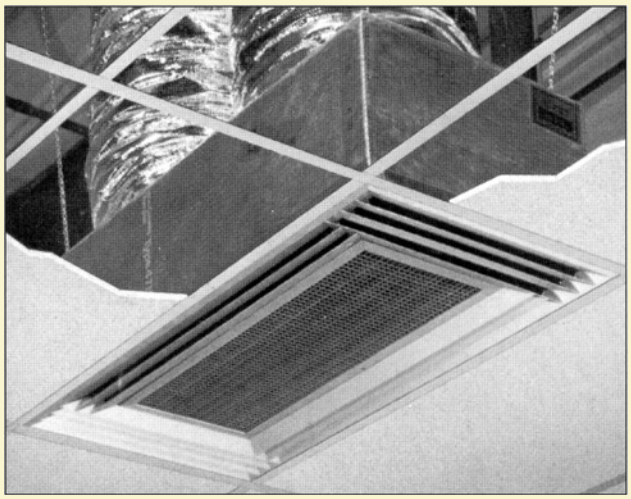
510 SERIES

FLUSH MOUNT
CONCENTRIC DIFFUSER SYSTEM

LIGHT COMMERCIAL
'T' BAR CEILING



COMMERCIAL
'T' BAR CEILING

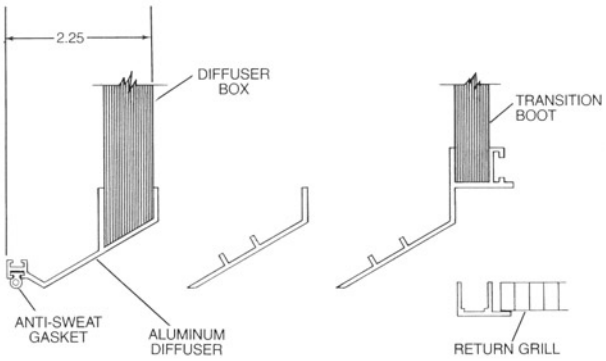
RSI's 510 SERIES concentric diffuser systems are designed to provide a single point air distribution system. The systems may be used with either a "T-Bar" ceiling or a plaster ceiling.

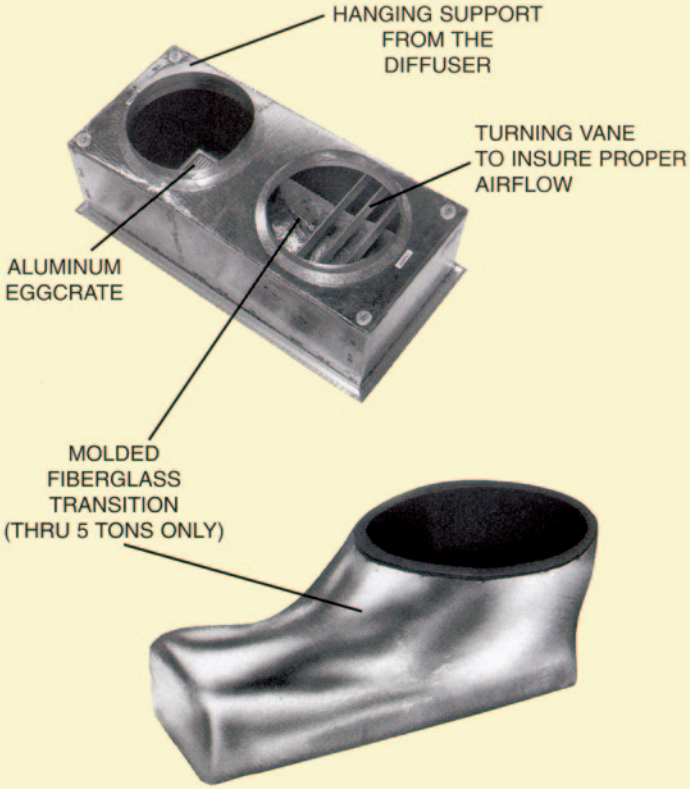
Standard features include:

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).





TYPICAL SPECIFICATIONS

Furnish and install Rooftop Systems "**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.

ROOFTOP SYSTEMS, INC. 2405 McIver Lane, Carrollton, Texas 75006-6510 Phone (972) 247-7447 (800) 552-HVAC Fax (972) 243-0940

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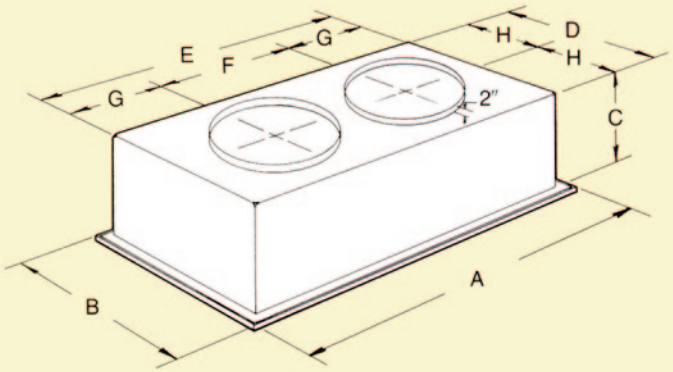
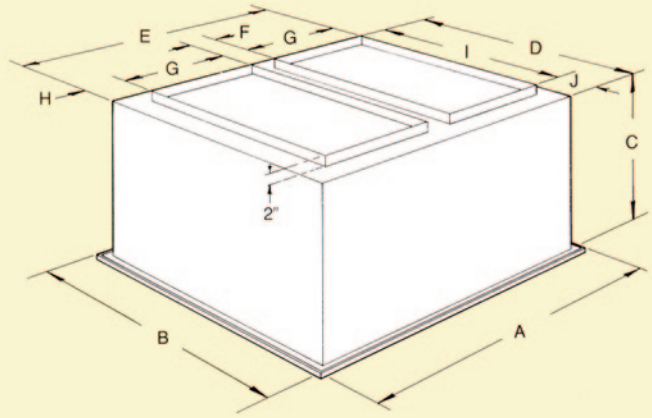
CONCENTRIC DIFFUSER SYSTEM



DIMENSIONAL DATA									
MODEL #	A	B	C	D	E	F	G	H	DUCT SIZE
01-510-16	47 5/8	23 5/8	13 1/2	21	45	22 1/2	11 1/4	10 1/2	16 RD
01-510-18	47 5/8	23 5/8	13 1/2	21	45	22 1/2	11 1/4	10 1/2	18 RD
01-510-20	47 5/8	29 5/8	16 5/8	27	45	22 1/2	11 1/4	13 1/2	20 RD



DIMENSIONAL DATA											
MODEL #	A	B	C	D	E	F	G	H	I	J	DUCT SIZE
01-510-22	47 5/8	35 5/8	23 1/4	33	45	4 1/2	18	2 1/4	28	2 1/2	18x28
01-510-50	47 5/8	41 5/8	29 1/4	39	45	4 1/2	18	2 1/4	32	3 1/4	18x32
01-510-60	47 5/8	47 5/8	29 1/4	45	45	4 1/2	18	2 1/4	36	4 1/2	18x36
01-510-80	59 5/8	59 5/8	35 1/4	57	57	4 1/2	24	2 1/4	48	4 1/2	24x48
01-510-100	59 5/8	59 5/8	35 1/4	57	57	4 1/2	24	2 1/4	54	1 1/2	24x54
01-510-300	65 5/8	65 5/8	40	63 1/2	63 1/2	4 1/4	28	1 5/8	60	1 1/2	28x60

510 SERIES CONCENTRIC DIFFUSER ENGINEERING DATA

Model #	CFM	Static Pressure	Throw in Feet	Neck Velocity	Jet Velocity	Noise Level
01-510-16	600	0.09	10-14	234	417	18
	800	0.11	12-18	313	556	20
	1000	0.14	15-20	391	691	20
	1200	0.17	16-22	469	833	25
	1400	0.20	17-24	547	972	30
01-510-18	1000	0.14	15-20	391	694	20
	1200	0.17	16-22	469	833	25
	1400	0.20	17-24	547	972	30
	1600	0.24	18-25	625	1111	30
	1800	0.30	20-28	703	1250	35
	2000	0.36	21-29	781	1389	40
	2200	0.40	22-30	859	1528	40
01-510-20	2600	0.17	19-24	663	1294	30
	2800	0.20	20-28	714	1393	35
	3000	0.25	21-29	765	1492	35
	3200	0.31	22-29	816	1592	40
	3400	0.37	22-30	867	1692	40
01-510-22	3600	0.17	22-29	844	1646	34
	4000	0.21	24-33	938	1829	40
	4400	0.27	28-37	1032	2011	40
01-510-50	4600	0.31	25-34	922	1795	40
	5000	0.34	24-33	938	1829	40
	5400	0.39	32-41	1083	2107	45
01-510-60	5600	0.36	28-37	1000	2082	45
	6000	0.42	40-50	1071	2230	45
	6400	0.50	43-52	1143	2379	50
	6600	0.54	45-56	1179	2454	50
01-510-80	7200	0.39	26-35	996	2093	45
	8000	0.50	42-51	1107	2326	50
	8400	0.56	44-54	1162	2442	50
	8800	0.63	48-59	1217	2558	50
01-510-100	9600	0.41	32-41	1036	2159	45
	10000	0.45	37-46	1079	2249	45
	10400	0.50	42-51	1122	2339	50
01-510-300	10000	0.57	37-46	713	1506	35
	11000	0.72	46-56	785	1657	35
	12000	0.90	54-66	856	1808	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.

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