

VAV THERMAL DIFFUSERS

SCVH GUIDE SPEC & PERFORMANCE

SCVH GUIDE SPECIFICATION

Each diffuser shall be a complete VAV terminal and thermostat self-powered, self contained in a 24"x24" diffuser. Face panel shall be one piece, smooth design. Panel shall be free of holes, plugs or slots. Each diffuser damper shall consist of an aluminum extruded disc to provide a variable, unobstructed 360 degree horizontal discharge for maximum Coanda effect. Foam perimeter seal provided.

Each diffuser shall utilize one or more temperature sensing thermal actuators to vary the supply air volume to provide both VAV heating and VAV cooling.

All diffusers shall have a temperature adjustment scale with indicators that range from 70°-78° F. The initial set point shall be factory set at 74° F. No tools shall be required.

Diffusers shall have a removable face panel attached to four spring clips. Face panel shall have the option to detach from two spring clips and hang down allowing hands to be free for adjusting set points. Room temperature set point adjustments shall be made by rotating the proper thermal actuator.

Adjustment instructions shall be on the inside of the face panel. No tools shall be required.

Model SCVH VAV heating and VAV cooling shall utilize four thermal actuators to provide both VAV heating and VAV cooling control. Diffuser is equipped with two room temperature sensing thermal actuators and two heating change over thermal actuators. The room temperature settings for heating and cooling shall be separately adjustable. One room actuator shall sense temperature and vary the supply air when cooling. The second actuator shall sense room temperature and vary the supply air when heating. The heating change over actuators shall be factory set to engage heating mode when supply air temperature rises above 78° F and will return to cooling mode when supply air temperature falls below 68° F.

24" x 24" SQUARE DIFFUSER PERFORMANCE								
Listed Size	Inlet SP In. WG	Max. CFM	Throw @ Max. CFM			Throw @ 25% of CFM		NC @ Max. CFM*
			V _t 50	V _t 100	V _t 150	V _t 50	V _t 100	
6"	.05	85	5	3	1	3	1	*
	.10	120	6	3	2	3	2	20
	.15*	150	7	4	2	4	3	24
	.20	170	8	5	3	6	4	28
	.25	220	8	6	5	7	4	33
8"	.05	160	6	4	2	4	2	*
	.10	225	8	5	3	5	3	20
	.15*	275	9	5	4	6	4	25
	.20	320	10	6	5	8	5	29
	.25	355	12	7	6	9	6	33
10"	.05	250	7	4	3	5	3	*
	.10	355	9	5	4	6	4	22
	.15*	450	11	6	5	7	4	26
	.20	500	12	7	6	8	5	29
	.25	580	13	8	7	10	7	32
12"	.05	365	8	5	4	6	4	*
	.10	520	11	7	6	8	5	23
	.15*	650	12	7	6	8	6	27
	.20	740	14	8	7	10	7	32
	.25	820	15	10	9	11	8	36
	.30	890	17	11	10	12	9	40