"2 x 2" SQUARES

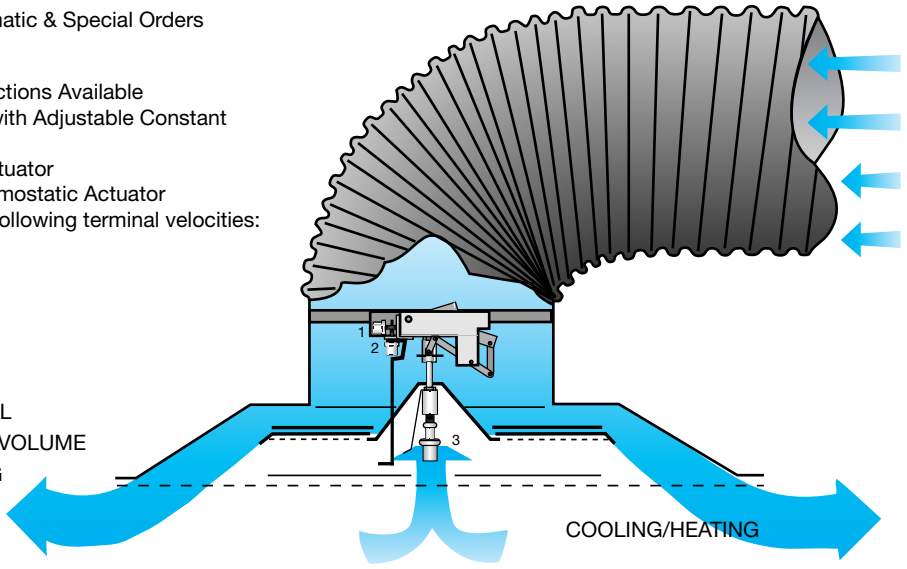
Thermally Powered Diffusers

MODELS AVAILABLE:
SC, SCW, SCAH, PCAH, Pneumatic & Special Orders

DESCRIPTION:
- 6"/8"/10"/12" Inlet Duct Connections Available
- Provides VAV Cooling Control with Adjustable Constant Volume Heating Control.
- Wax Type VAV Thermostatic Actuator
- Wax Type Heating Control Thermostatic Actuator
- Throw values (ft) are based on following terminal velocities:
  - Maximum 150 FPM
  - Typical 100 FPM
  - Minimum 50 FPM

Pt is total pressure (inch WG)

S - SOLID CENTER PANEL
C - VAV COOLING CONTROL
AH - ADJUSTABLE HEATING VOLUME
AH/I - FULL CLOSED HEATING
W - FULL OPEN WARM-UP
P - PERFORATED FACE



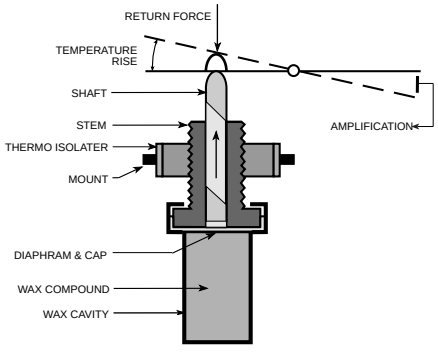
"2 x 2" SQUARE DIFFUSER PERFORMANCE

Listed Size	Inlet SP In. WG	Max. CFM	Throw @ Max. CFM V_t50	V_t100	V_t150	Throw @ 25% of CFM V_t50	V_t100	NC @ Max. CFM*
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

* Denotes nominal rating NC based on L_W (10^{-12} watts reference) -10db
Tested in accordance with ANSI /ASHRAE 70-1991, ANSI S12.31, ARI890-94, ISO5219 and ISO 3741

ROOM TEMPERATURE SENSING ELEMENT

The thermal actuator allows the transformation of heat energy into mechanical energy via the movement of a diaphram type actuator which in turn pushes a moveable shaft. This transformation is based on the increase in volume of a thermoactive expansion material which is heated and changes from a solid to a liquid state. The resultant force developed by this expansion is transmitted to a moveable shaft which rises along a curve related to temperature as it affects the thermoactive core material.



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