

VAV THERMAL DIFFUSERS

VACH/VAC GUIDE SPEC & PERFORMANCE

VACH/VAC GUIDE SPECIFICATION

The VACH is a variable discharge opening diffuser. The room temperature setting will vary the discharge opening thus varying the supply air volume. The operation of the VACH unit will provide room temperature control in the following configurations:

Vertical-VAV warm air flow; horizontal-VAV cooling air flow. All VAV linear diffusers are factory calibrated to a 72° F room temperature + or - 2° F. If room temperature adjustment is required, turning the room actuator located in the square opening on the face of the unit clockwise will lower room temperature; counter-clockwise rotation will raise the room temperature.

Cooling Cycle:

- Supply air temperature range: Approximately 50° F.
- Room temperature range: Greater than 73° F/blade position will respond with appropriate horizontal volume discharge.
- Room temperature range: Less than 72° F/full closed blade position.

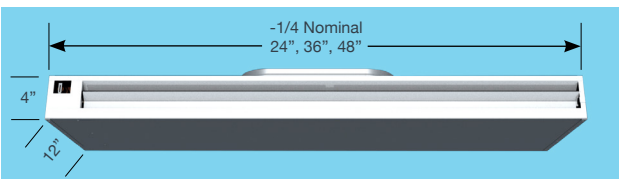
Heating Cycle Change Over:

- Supply air temperature range: Approximately 85° F.
- Room temperature range: Less than 72° F/blade position will respond with appropriate vertical volume discharge.
- Room temperature range: Greater than 73°/full closed blade position.

VACH/VAC for COOLING/HEATING



DIMENSIONAL DATA



LINEAR DIFFUSER PERFORMANCE GUIDE

Throw Values (P _t) are based on following terminal velocities: Maximum 150 fpm Typical 100 fpm Minimum 50 fpm Pt is total pressure (inch. Wg)	Horizontal Cool Air/ Vertical Warm Air Throw	VAV Cooling/Room Temperature Control	VAV Heating/Room Temperature Control	Controlled Adjustable Heating Volume	Controlled Full Closed Heating Volume	Adjustable Minimum Ventilation Volume	Wax Type Thermal Actuator	24 Gauge Zinc Coated Steel Housing	Extruded Bell Mouth Inlet	CFM	Size	Inlet	Throw	P _t	N.C.
VACH • VAV Horizontal Room Temperature Cooling Control • VAV Vertical Room Temperature Heating Control • Wax Type VAV Control Thermostatic Actuator • Wax Type Minimum Stop Position Thermostatic Actuator	•	•	•	•	•	•	2	•	•	200	2 ft.	8"	11-14-19	.08	33
											3 ft.	9"	6-11-16	.06	21
											4 ft.	10"	3-7-14	.04	<20
										250	2 ft.	8"	13-26-22	.14	37
											3 ft.	9"	8-13-17	.09	27
	4 ft.	10"	5-10-16	.07	<20										
VAC • VAV Horizontal Temperature Cooling Control for Interior Cooling Only Sub-Zone Control • Wax Type VAV Control Thermostatic Actuator			•				1	•	•	300	2 ft.	8"	11-14-19	.18	37
											3 ft.	9"	10-14-19	.15	32
											4 ft.	10"	7-13-17	.10	24
										400	4 ft.	10"	11-14-19	.15	32
										500	4 ft.	10"	13-15-21	.27	38