

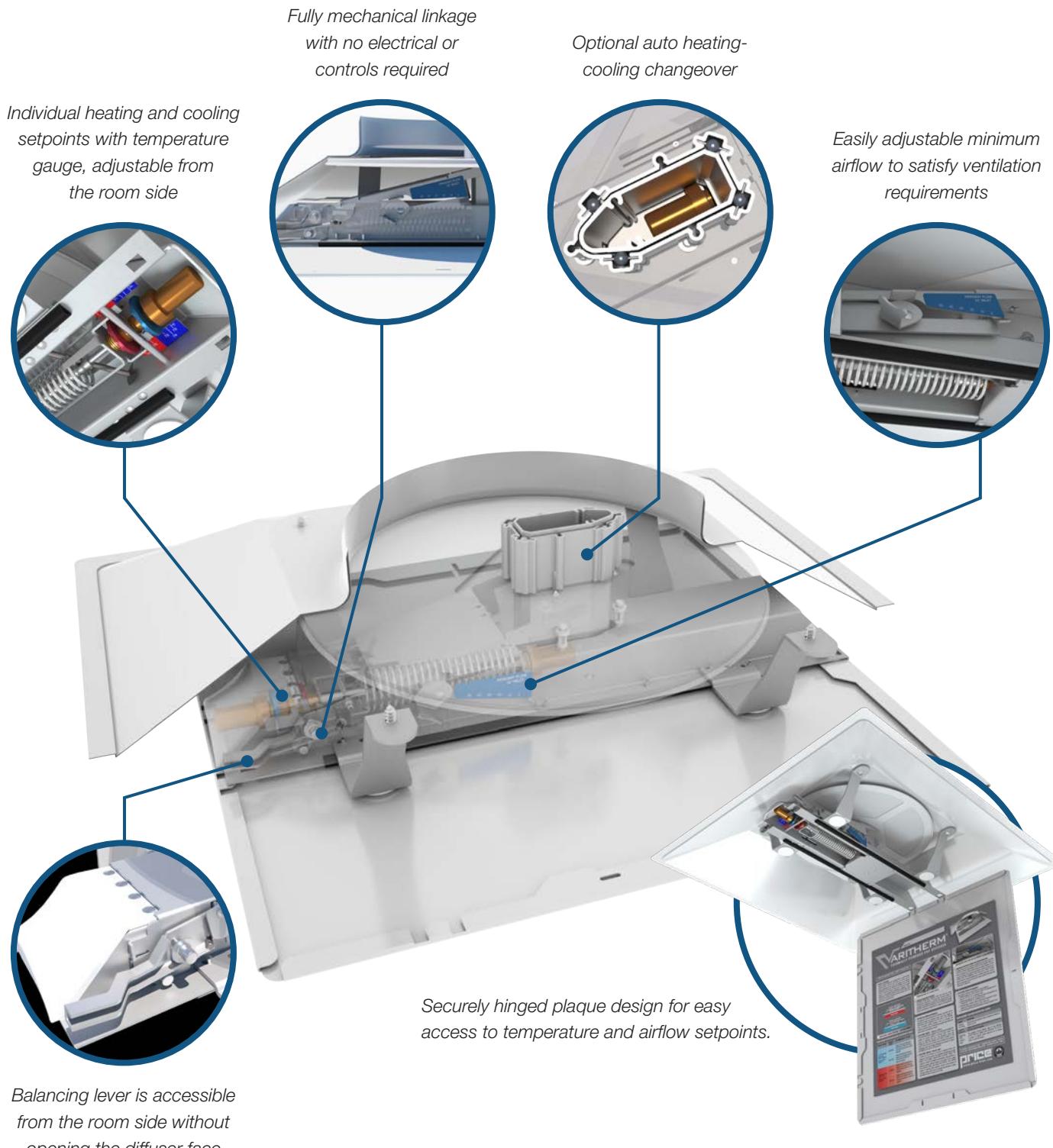
VARITHERM®

MECHANICAL VAV DIFFUSERS



PRICE | VAV
DIFFUSERS

The Varitherm series of self-modulating diffusers provide optimal thermal comfort through integrated thermal sensors that continuously monitor room temperature to modulate the integrated damper. Damper modulation is done mechanically with a thermally powered wax actuator, eliminating the need for any electrical or controls wiring and making installation quick and easy.



VARITHERM®

Mechanical VAV Diffusers

VAV diffusers provide superior air distribution with no dumping. They are energy efficient, easily adaptable to changes in the floor plan, and require little to no maintenance.

VPD Varitherm Square VAV Diffuser

Square plaque VAV diffuser with disc dampers



VPD

Small zone control with simple lever for balancing and easily adjustable minimum damper position settings.

Size: 24 in. / 600 mm

Inlet sizes: 6, 8, 10 and 12 in.

VBD Varitherm Square VAV Diffuser

Square plaque VAV diffuser with blade dampers



VBD

Utilizes four blade style dampers to better maintain throws on turn down and operate with lower noise.

Size: 24 in. / 600 mm

Inlet sizes: 6, 8, 10 and 12 in.

VKD Varitherm Small Square VAV Diffuser

Square plaque VAV diffuser with blade dampers



VKD

Specifically designed for task conditioning and provides VAV heating and cooling in a compact size favored by architects.

Size: 12 5/8 in. / 320 mm

Inlet sizes: 6 in / 150 mm



VRD

VRD Varitherm Round VAV Diffuser

Round plaque VAV diffuser

Round, flat lip and appearance panel provide an unobtrusive thermally powered diffuser when used with an exposed ductwork ceiling.

Size: 24 in. / 600 mm

Inlet sizes: 6, 8, 10 and 12 in.

VLD Varitherm Linear VAV Diffuser

Linear slot VAV diffuser



VLD

Streamlined aluminum extrusions provide slim, trim architectural shape and aerodynamic air distribution.

Lengths: 24, 36, 48 and 60 in. / 600, 900, 1200 and 1500 mm

Slots: 1, 2 and 4

See individual submittals for dimensions and border types.

RELIABLE PERFORMANCE

- + The design of the outer cone and damper ensures that the speed of the air exiting the diffuser is consistent even as airflow is reduced. Maintaining the speed of the air exiting the diffuser ensures Coanda across the ceiling, thus preventing dumping, creating even mixing and ensuring personal comfort.

EASY INSTALLATION

- + The Varitherm is easy to install as no wiring, calibration or thermostat is required.

RETROFIT APPLICATIONS

- + In the event that diffuser layout changes are required, the Varitherm can be moved from one location to another without reprogramming or the need to re-route cables.

EASY SETPOINT ADJUSTMENT

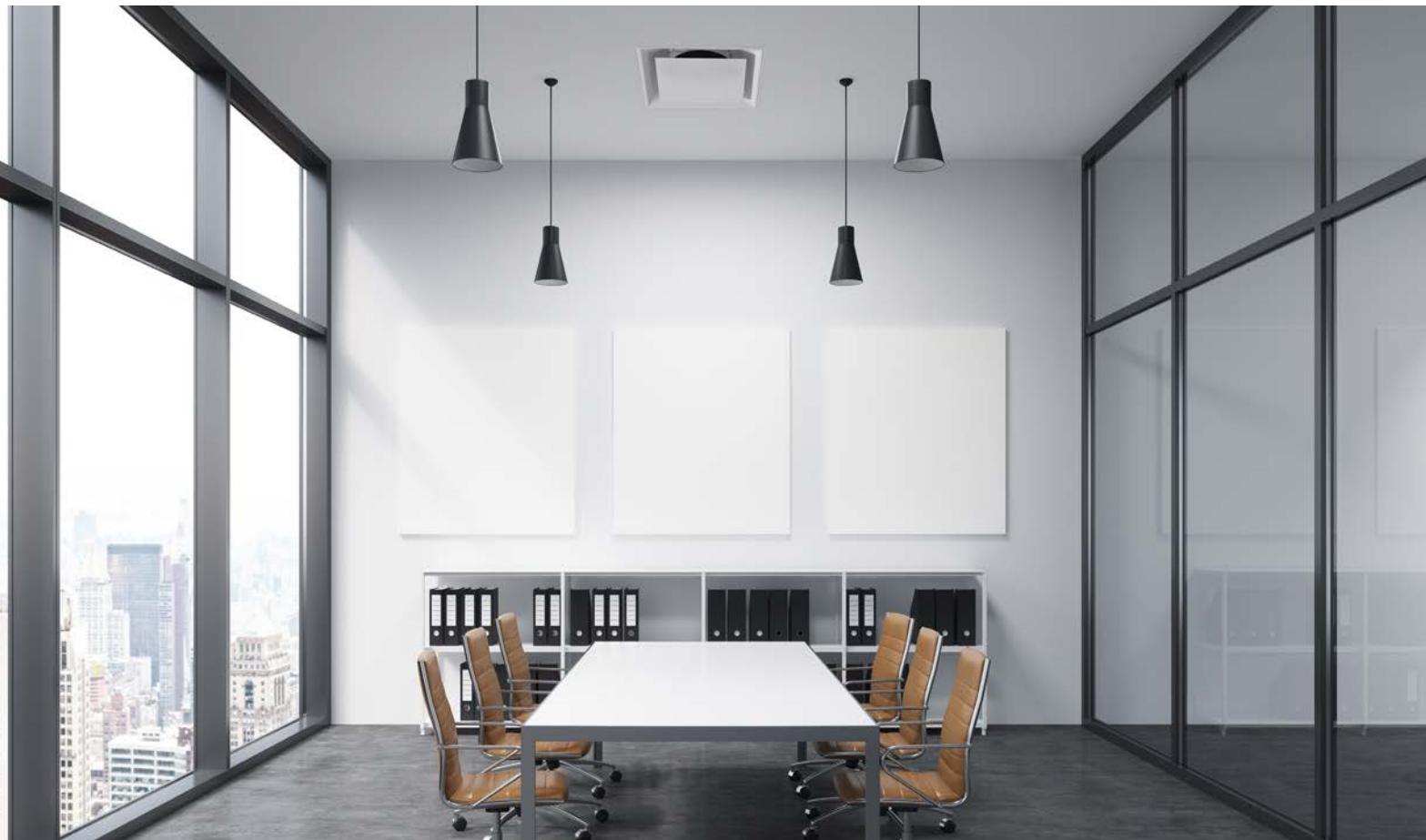
- + Temperature and airflow setpoint control for the Varitherm are room side accessible behind the easy-to-open diffuser plaque. The plaque pivots securely on hanger brackets, and is held closed with a set of clips.
- + Heating and cooling temperature setpoints are adjusted using clearly labeled blue and red dials. An adjustable flow dial, also located behind the diffuser plaque, allows minimum airflow to be set to maintain the minimum ventilation requirements of the space. For ease of balancing, the unit is equipped with a forced-open balancing lever that is accessible from the room side without opening the plaque.

TYPICAL APPLICATIONS

The Varitherm provides personal temperature control by modulating the flow of supply air into a particular space. This diffuser is an excellent choice for small zone VAV applications such as offices and boardrooms and can be used throughout a building as a primary VAV system. Well-suited for retrofit applications, the Varitherm can easily replace traditional diffusers to provide localized control and improved occupant thermal comfort in an existing system.

CONSTRUCTION OPTIONS

- + Application
 - Cooling-only
 - Heating and cooling



APPLICATION

The Price Varitherm series of products are available for cooling-only or for both heating and cooling applications. Refer to the chart below for damper operation in response to room temperature.

| Mode | Room Temperature vs. Setpoint | Damper Operation |
|---------|-------------------------------|------------------|
| Cooling | Warmer | Opens |
| | Cooler | Closes |
| | Equal | No Movement |
| Heating | Warmer | Closes |
| | Cooler | Opens |
| | Equal | No Movement |

VAV Cooling-Only

The cooling-only model is suitable for applications without heating requirements. The wax actuator is only calibrated for cool supply air and will not condition the space appropriately if warm supply air is used.

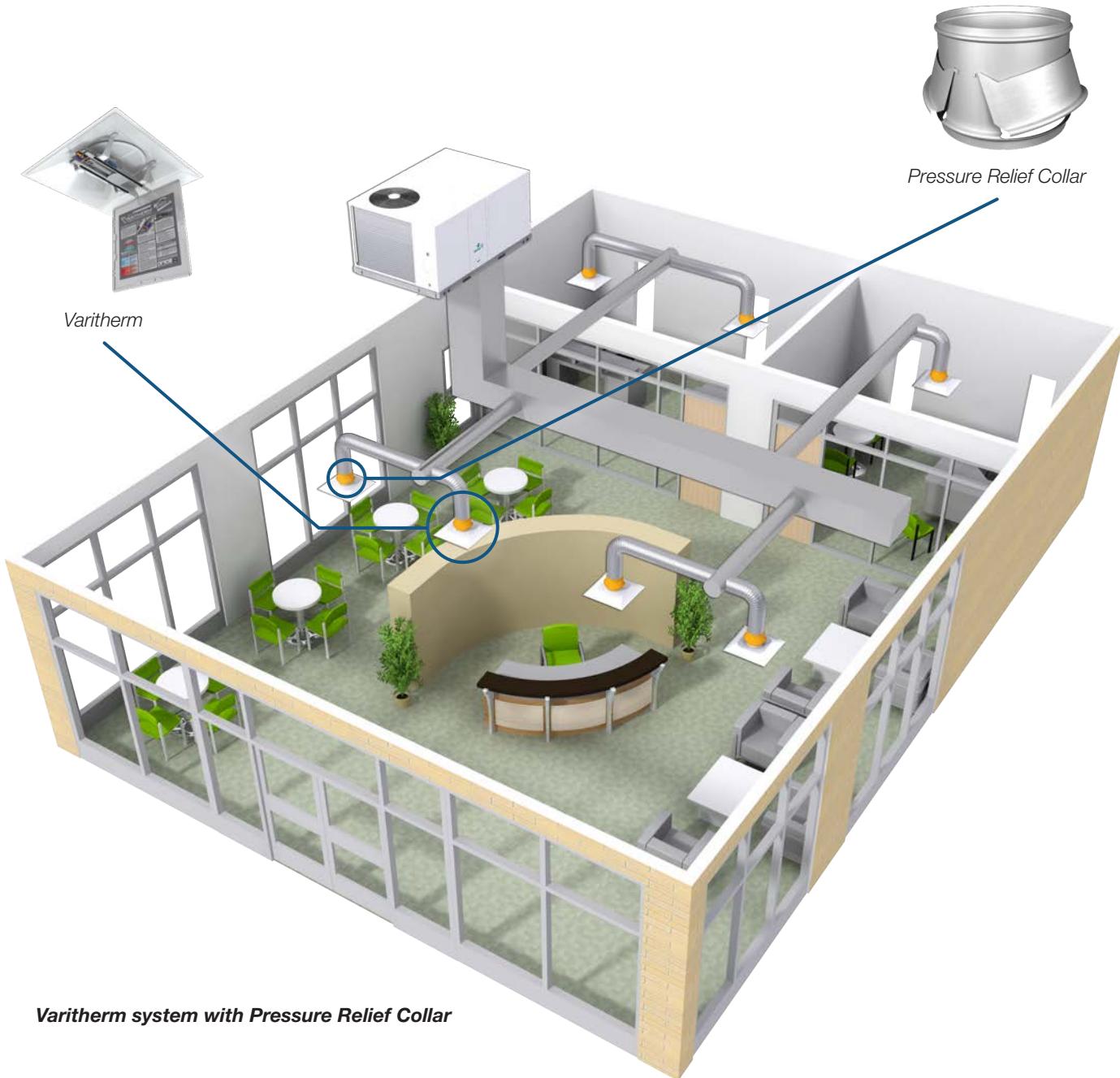
VAV Cooling and VAV Heating

The heating and cooling model is suitable for applications that require dedicated heating and cooling cycles. This model features dual temperature setpoints at the diffuser for control in heating and cooling and automatic heat/cool changeover.

SYSTEM PRESSURE CONTROL

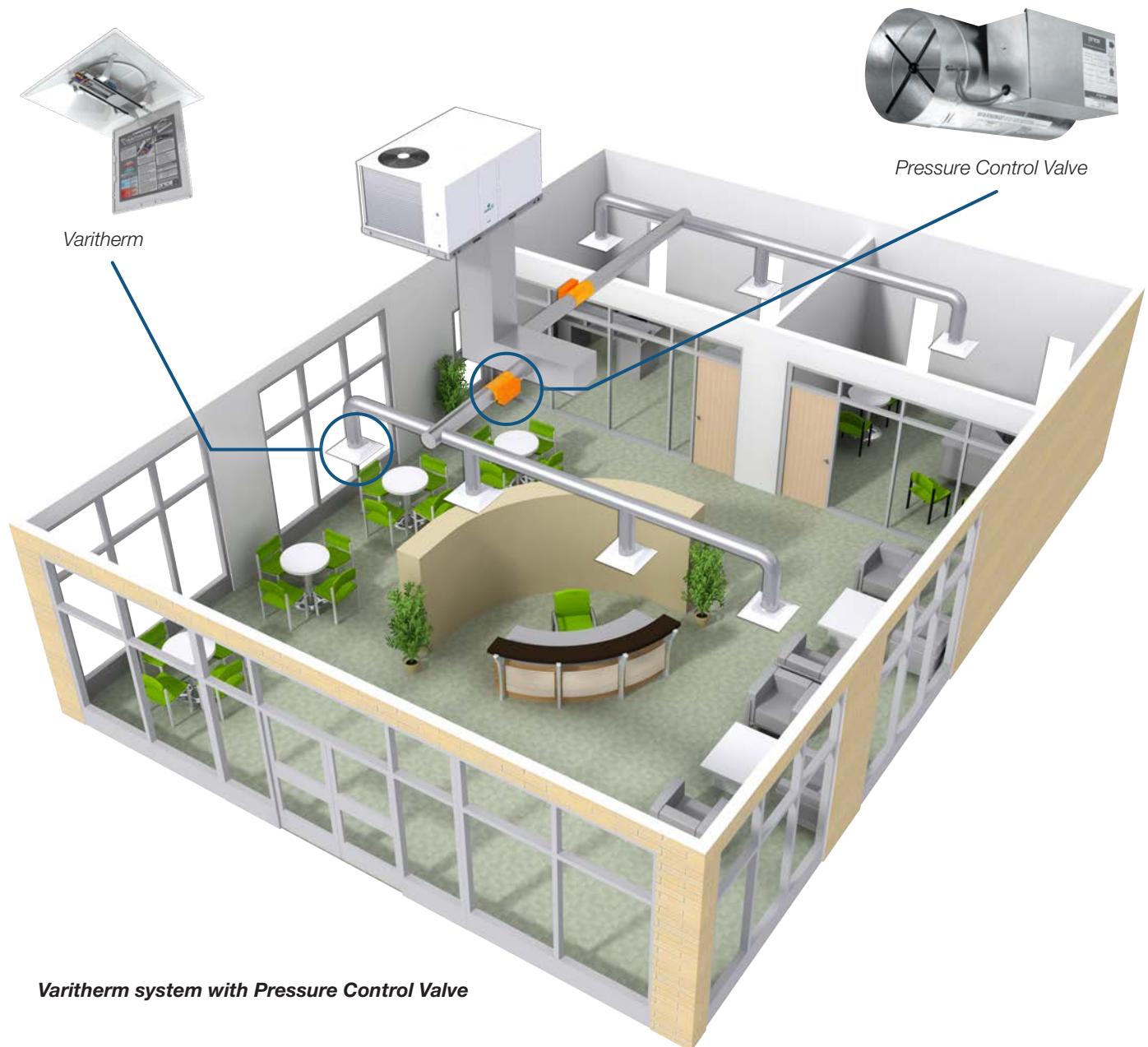
Pressure Relief Collar

The Pressure Relief Collar (PRC) slips over the diffuser inlet to provide a simple and inexpensive solution to control inlet static pressure. To limit excessive diffuser noise and pressure drop, duct static pressure should be below 0.25 in. w.g. A PRC is recommended for applications where duct pressure may exceed the recommended limit, such as installations with a constant volume air handler where multiple Varitherm units are operating with a mostly closed damper. As duct pressure increases past 0.25 in. w.g. calibrated shutters gradually open to release excess air into the ceiling plenum return system.



Pressure Control Valve

The Pressure Control Valve (PCV), available in both round and rectangular models, uses electronic control to regulate duct pressure. To limit excessive diffuser noise and pressure drop, duct static pressure should be below 0.25 in. w.g. A PCV is recommended for applications where duct pressure will exceed the recommended limit and the air handler has a variable speed fan or as a bypass for air handlers with a constant volume fan. With the integral VAV damper, the PCV regulates airflow to maintain duct static pressure below 0.25 in. w.g.



PERFORMANCE DATA

VPD: I-P (Inch-Pound)

Maximum Flow Selection Table

| Inlet Size | Neck Velocity, fpm Velocity Pressure 0.01 | 450 0.02 | 550 0.03 | 650 0.04 | 750 0.05 | 850 0.06 | 950 0.08 | 1100 0.10 | 1250 0.10 |
|------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| 6 | Static Pressure | | 0.05 | 0.07 | 0.10 | 0.12 | 0.15 | 0.20 | 0.25 |
| | Total Pressure | | 0.07 | 0.10 | 0.14 | 0.16 | 0.20 | 0.27 | 0.35 |
| | cfm | 105 | 125 | 150 | 163 | 180 | 210 | 240 | |
| | NC | - | 12 | 17 | 20 | 25 | 29 | 32 | |
| 8 | Throw, ft | 1-1-4 | 1-2-4 | 1-2-5 | 1-3-5 | 1-4-6 | 2-5-7 | 4-6-8 | |
| | Static Pressure | 0.05 | 0.07 | 0.10 | 0.12 | 0.15 | 0.20 | 0.25 | |
| | Total Pressure | 0.06 | 0.08 | 0.13 | 0.16 | 0.19 | 0.26 | 0.33 | |
| | cfm | 165 | 189 | 235 | 258 | 285 | 330 | 380 | |
| 10 | NC | - | 16 | 18 | 21 | 25 | 30 | 34 | |
| | Throw, ft | 1-2-6 | 2-3-7 | 2-4-8 | 3-4-9 | 4-5-10 | 4-6-11 | 5-7-11 | |
| | Static Pressure | 0.05 | 0.07 | 0.10 | 0.13 | 0.15 | 0.20 | 0.25 | |
| | Total Pressure | 0.06 | 0.09 | 0.13 | 0.16 | 0.19 | 0.26 | 0.32 | |
| 12 | cfm | 255 | 296 | 360 | 404 | 440 | 510 | 570 | |
| | NC | - | 18 | 23 | 26 | 28 | 32 | 36 | |
| | Throw, ft | 2-4-7 | 2-4-8 | 2-6-10 | 4-7-10 | 5-7-11 | 6-8-12 | 7-10-13 | |
| | Static Pressure | 0.05 | 0.08 | 0.10 | 0.15 | 0.20 | 0.25 | | |
| 12 | Total Pressure | 0.06 | 0.10 | 0.12 | 0.18 | 0.25 | 0.31 | | |
| | cfm | 335 | 427 | 470 | 580 | 670 | 740 | | |
| | NC | - | 21 | 25 | 31 | 35 | 38 | | |
| | Throw, ft | 2-7-10 | 4-8-11 | 5-8-12 | 6-10-13 | 8-12-14 | 11-13-16 | | |

Performance Notes:

1. Performance data is presented for the Varitherm® diffuser with the damper in the full open (maximum flow) position.
2. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
3. Airflow is in cfm.
4. All pressures are in in. w.g.
5. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
6. Throw data is based on supply air and room air at isothermal conditions.
7. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
8. Blanks (-) indicate an NC level below 15.

Modulated Flow Selection Table - I-P Units

| Inlet Size | .05 Duct Ps | | | 0.10 Duct Ps | | | 0.20 Duct Ps | | | 0.25 Duct Ps | | |
|------------|-------------|-----------|----|--------------|-----------|----|--------------|-----------|----|--------------|-----------|----|
| | cfm | Throw, ft | NC | cfm | Throw, ft | NC | cfm | Throw, ft | NC | cfm | Throw, ft | NC |
| 6 | 26 | 1-1-1 | - | 38 | 1-1-2 | - | 53 | 1-1-5 | - | 60 | 2-2-5 | 21 |
| | 53 | 1-1-2 | - | 75 | 1-2-3 | 16 | 105 | 2-2-6 | 20 | 120 | 3-4-6 | 25 |
| | 79 | 1-1-3 | - | 113 | 1-2-4 | 16 | 158 | 2-4-6 | 24 | 180 | 3-5-7 | 28 |
| | 105 | 1-1-4 | - | 150 | 1-2-5 | 17 | 210 | 2-5-7 | 29 | 240 | 4-6-8 | 32 |
| 8 | 41 | 1-1-2 | - | 59 | 1-1-4 | - | 83 | 1-2-5 | 20 | 95 | 2-4-6 | 25 |
| | 83 | 1-2-4 | - | 118 | 2-2-5 | 16 | 165 | 2-4-7 | 23 | 190 | 3-5-8 | 28 |
| | 124 | 1-2-5 | - | 176 | 2-3-7 | 18 | 248 | 3-5-9 | 27 | 285 | 4-6-9 | 31 |
| | 165 | 1-2-6 | - | 235 | 2-4-8 | 18 | 330 | 4-6-11 | 30 | 380 | 5-7-11 | 34 |
| 10 | 64 | 1-1-4 | - | 90 | 1-1-4 | - | 128 | 2-4-6 | 22 | 143 | 4-5-7 | 26 |
| | 128 | 2-2-5 | - | 180 | 2-3-6 | 18 | 255 | 4-5-8 | 25 | 285 | 5-6-9 | 29 |
| | 191 | 2-3-6 | - | 270 | 2-4-8 | 20 | 383 | 5-7-10 | 29 | 428 | 6-8-11 | 33 |
| | 255 | 2-4-7 | - | 360 | 2-6-10 | 23 | 510 | 6-8-12 | 32 | 570 | 7-10-13 | 36 |
| 12 | 84 | 1-1-5 | - | 118 | 1-2-6 | - | 168 | 2-4-8 | 23 | 185 | 2-6-10 | 31 |
| | 168 | 2-3-6 | - | 235 | 2-4-8 | 18 | 335 | 4-6-10 | 27 | 370 | 5-8-11 | 33 |
| | 251 | 2-5-8 | - | 343 | 4-6-10 | 22 | 503 | 6-9-12 | 31 | 555 | 8-11-14 | 36 |
| | 335 | 2-7-10 | - | 470 | 5-8-12 | 25 | 670 | 8-12-14 | 35 | 740 | 11-13-16 | 38 |

Performance Notes:

1. Performance data is presented for Varitherm® diffuser at several modulated damper positions with constant duct static pressures of .05, 0.10, 0.20, and 0.25 inches w.g.
2. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
3. Airflow is in cfm.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.

PERFORMANCE DATA

VPD: SI (Metric)

Maximum Flow Selection Table

| Inlet Size | Neck Velocity, l/s | 2.3 | 2.8 | 3.3 | 3.8 | 4.3 | 4.8 | 5.6 | 6.4 |
|------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Velocity Pressure | 3 | 5 | 7 | 9 | 11 | 14 | 19 | 24 |
| 150 mm | Static Pressure | | | 12 | 18 | 25 | 30 | 37 | 50 |
| | Total Pressure | | | 17 | 24 | 34 | 41 | 51 | 68 |
| | Air Flow | | | 50 | 59 | 71 | 77 | 85 | 99 |
| | NC | | - | 12 | 17 | 20 | 25 | 29 | 32 |
| | Throw, m | | 0.4-0.4-1.1 | 0.4-0.5-1.2 | 0.4-0.7-1.5 | 0.4-0.9-1.6 | 0.4-1.1-1.8 | 0.7-1.5-2.2 | 1.1-1.8-2.6 |
| 200 mm | Static Pressure | 12 | 16 | 25 | 30 | 37 | 50 | 62 | |
| | Total Pressure | 16 | 21 | 32 | 39 | 48 | 64 | 81 | |
| | Air Flow | 78 | 89 | 111 | 122 | 134 | 156 | 179 | |
| | NC | - | 16 | 18 | 21 | 25 | 30 | 34 | |
| | Throw, m | 0.4-0.7-1.8 | 0.5-0.8-2.1 | 0.7-1.1-2.6 | 0.9-1.2-2.7 | 1.1-1.5-2.9 | 1.1-1.8-3.3 | 1.5-2.2-3.3 | |
| 250 mm | Static Pressure | 12 | 17 | 25 | 31 | 37 | 50 | 62 | |
| | Total Pressure | 16 | 21 | 32 | 40 | 48 | 64 | 80 | |
| | Air Flow | 120 | 140 | 170 | 191 | 208 | 241 | 269 | |
| | NC | - | 18 | 23 | 26 | 28 | 32 | 36 | |
| | Throw, m | 0.7-1.1-2.2 | 0.7-1.4-2.5 | 0.7-1.8-2.9 | 1.1-2.0-3.1 | 1.5-2.2-2.3 | 1.8-2.6-3.7 | 2.2-2.9-4.0 | |
| 300 mm | Static Pressure | 12 | 20 | 25 | 37 | 50 | 62 | | |
| | Total Pressure | 15 | 25 | 31 | 46 | 61 | 76 | | |
| | Air Flow | 158 | 202 | 222 | 274 | 316 | 349 | | |
| | NC | - | 21 | 25 | 31 | 35 | 38 | | |
| | Throw, m | 0.7-2.2-2.9 | 1.2-2.4-3.4 | 1.5-2.6-3.7 | 1.8-2.9-4.0 | 2.6-3.7-4.4 | 3.3-4.0-4.8 | | |

Performance Notes:

1. Performance data is presented for the Varitherm® diffuser with the damper in the full open (maximum flow) position.
2. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
3. Airflow is in L/s.
4. All pressures are in Pa.
5. Throw values are measured in meters for terminal velocities of 0.75 m/s (minimum), 0.5 m/s (middle) and 0.25 m/s (maximum).
6. Throw data is based on supply air and room air at isothermal conditions.
7. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
8. Blanks (-) indicate an NC level below 15.

Modulated Flow Selection Table - SI Units (Metric)

| Inlet Size | 12Pa Duct Pressure | | | 25Pa Duct Pressure | | | 50Pa Duct Pressure | | | 62Pa Duct Pressure | | |
|------------|--------------------|-------------|----|--------------------|-------------|----|--------------------|-------------|----|--------------------|-------------|----|
| | L/s | Throw, m | NC |
| 150 mm | 12 | 0.4-0.4-0.4 | - | 18 | 0.4-0.4-0.7 | - | 25 | 0.4-0.4-1.5 | - | 28 | 0.7-0.7-1.5 | 21 |
| | 25 | 0.4-0.4-0.6 | - | 35 | 0.4-0.5-1.0 | 16 | 50 | 0.5-0.7-1.7 | 20 | 57 | 0.9-1.1-1.8 | 25 |
| | 37 | 0.4-0.4-0.9 | - | 53 | 0.4-0.6-1.2 | 16 | 74 | 0.6-1.1-2.0 | 24 | 85 | 1.0-1.5-2.2 | 28 |
| | 50 | 0.4-0.4-1.1 | - | 71 | 0.4-0.7-1.5 | 17 | 99 | 0.7-1.5-2.2 | 29 | 113 | 1.1-1.8-2.6 | 32 |
| 200 mm | 19 | 0.4-0.4-0.7 | - | 28 | 0.4-0.4-1.1 | - | 39 | 0.4-0.7-1.5 | 20 | 45 | 0.7-1.1-1.8 | 25 |
| | 39 | 0.4-0.5-1.1 | - | 55 | 0.5-0.6-1.6 | 16 | 78 | 0.6-1.1-2.1 | 23 | 90 | 1.0-1.5-2.3 | 28 |
| | 58 | 0.4-0.6-1.5 | - | 83 | 0.6-0.9-2.1 | 18 | 117 | 0.9-1.5-2.7 | 27 | 134 | 1.2-1.8-2.8 | 31 |
| | 78 | 0.4-0.7-1.8 | - | 111 | 0.7-1.1-2.6 | 18 | 156 | 1.1-1.8-3.3 | 30 | 179 | 1.5-2.2-3.3 | 34 |
| 250 mm | 30 | 0.4-0.4-1.1 | - | 42 | 0.4-0.4-1.1 | - | 60 | 0.7-1.1-1.8 | 22 | 67 | 1.1-1.5-2.2 | 26 |
| | 60 | 0.5-0.6-1.5 | - | 85 | 0.5-0.9-1.7 | 18 | 120 | 1.1-1.6-2.4 | 25 | 134 | 1.5-2.0-2.8 | 29 |
| | 90 | 0.6-0.9-1.8 | - | 127 | 0.6-1.3-2.3 | 20 | 180 | 1.5-2.1-3.0 | 29 | 202 | 1.8-2.4-3.4 | 33 |
| | 120 | 0.7-1.1-2.2 | - | 170 | 0.7-1.8-2.9 | 23 | 241 | 1.8-2.6-3.7 | 32 | 269 | 2.2-2.9-4.0 | 36 |
| 300 mm | 40 | 0.4-0.4-1.5 | - | 55 | 0.4-0.7-1.8 | - | 79 | 0.7-1.1-2.6 | 23 | 87 | 0.7-1.8-2.9 | 31 |
| | 79 | 0.5-1.0-2.0 | - | 111 | 0.7-1.3-2.4 | 18 | 158 | 1.3-2.0-3.2 | 27 | 175 | 1.6-2.6-3.5 | 33 |
| | 119 | 0.6-1.6-2.4 | - | 166 | 1.1-2.0-3.0 | 22 | 237 | 2.0-2.8-3.8 | 31 | 262 | 2.4-3.3-4.1 | 36 |
| | 158 | 0.7-2.2-2.9 | - | 222 | 1.5-2.6-3.7 | 25 | 316 | 2.6-3.7-4.4 | 35 | 349 | 3.3-4.0-4.8 | 38 |

Performance Notes:

1. Performance data is presented for Varitherm® diffuser at several modulated damper positions with constant duct static pressures of 12, 25, 50, and 62 Pa.
2. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
3. Airflow is in L/s.
4. Throw values are measured in meters for terminal velocities of 0.75 m/s (minimum), 0.5 m/s (middle) and 0.25 m/s (maximum).
5. Throw data is based on supply air and room air at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.

PERFORMANCE DATA

VBD: I-P (Inch-Pound)

| Inlet Designation | Inlet Diameter in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|-------------------|--------------------|--------------------------------|------------------|-----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| | | | | Throw - Feet* @ v_t | | | | Throw - Feet* @ v_t | | | |
| | | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 6 | 5 15/16 | 0.05 | 100 | 6 | 4 | 3 | <15 | 3 | 2 | 1 | <15 |
| | | 0.10 | 140 | 8 | 5 | 4 | 20 | 4 | 3 | 2 | 17 |
| | | 0.11 | 147 | 8 | 5 | 4 | 21 | 4 | 3 | 2 | 18 |
| | | 0.15 | 175 | 8 | 6 | 5 | 26 | 5 | 4 | 3 | 21 |
| | | 0.20 | 200 | 9 | 7 | 6 | 31 | 6 | 5 | 3 | 24 |
| | | 0.25 | 220 | 10 | 8 | 7 | 34 | 7 | 6 | 4 | 27 |
| 8 | 7 15/16 | 0.05 | 160 | 8 | 6 | 4 | <15 | 5 | 3 | 2 | <15 |
| | | 0.10 | 225 | 10 | 7 | 5 | 20 | 6 | 4 | 3 | 16 |
| | | 0.13 | 255 | 11 | 8 | 6 | 23 | 7 | 5 | 3 | 19 |
| | | 0.15 | 275 | 11 | 8 | 6 | 25 | 7 | 5 | 3 | 21 |
| | | 0.20 | 320 | 12 | 9 | 7 | 30 | 8 | 6 | 4 | 25 |
| | | 0.25 | 355 | 13 | 10 | 8 | 34 | 9 | 6 | 4 | 28 |
| 10 | 9 15/16 | 0.05 | 260 | 9 | 7 | 5 | 15 | 7 | 6 | 4 | <15 |
| | | 0.10 | 370 | 11 | 8 | 6 | 23 | 9 | 7 | 5 | 18 |
| | | 0.11 | 402 | 12 | 9 | 7 | 25 | 9 | 7 | 5 | 20 |
| | | 0.15 | 450 | 13 | 10 | 8 | 27 | 10 | 8 | 6 | 22 |
| | | 0.20 | 520 | 14 | 11 | 9 | 31 | 11 | 9 | 7 | 26 |
| | | 0.25 | 580 | 15 | 12 | 10 | 34 | 12 | 10 | 7 | 29 |
| 12 | 11 15/16 | 0.05 | 350 | 11 | 8 | 6 | 15 | 7 | 6 | 4 | <15 |
| | | 0.10 | 470 | 13 | 10 | 8 | 23 | 9 | 7 | 5 | 19 |
| | | 0.13 | 560 | 15 | 10 | 8 | 27 | 10 | 8 | 6 | 23 |
| | | 0.15 | 576 | 15 | 12 | 10 | 28 | 10 | 8 | 6 | 24 |
| | | 0.20 | 640 | 16 | 13 | 11 | 31 | 12 | 10 | 8 | 27 |
| | | 0.25 | 720 | 17 | 14 | 12 | 34 | 14 | 11 | 9 | 30 |

Performance Notes:

1. *Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
2. 'NC based on Lw(10⁻¹² watts reference) -10db
3. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.
4. When bypassing air into the plenum at the diffuser with Price R-Rings, throw may be as low as 90% of and the NC 2db higher than those listed in the performance chart.
5. When blocking for direction with the directional baffles, the air volume for a given static pressure is reduced from maximum flow listed in the performance chart by:

| Blow Patterns | Reduction |
|---------------|-----------|
| 3-Way | 0.78 |
| 2-Way | 0.56 |
| 1-Way | 0.34 |

PERFORMANCE DATA

VBD: SI (Metric)

| Inlet Designation | Nominal Inlet Diameter mm | Inlet Static Pressure Pa | Maximum Flow | | Maximum Flow | | | | 25% Maximum Flow | | | |
|-------------------|---------------------------|--------------------------|--------------|------|-----------------|----------|----------|-----|------------------|----------|----------|-----|
| | | | | | Throw (m)* @vt= | | | | Throw (m)* @vt= | | | |
| | | | L/s | m³/h | 0.25 m/s | 0.50 m/s | 0.75 m/s | 'NC | 0.25 m/s | 0.50 m/s | 0.75 m/s | 'NC |
| 6 | 150 | 10 | 43 | 157 | 1.7 | 1.2 | 0.9 | <15 | 0.9 | 0.6 | 0.3 | <15 |
| | | 20 | 59 | 211 | 2.2 | 1.4 | 1.1 | 18 | 1.1 | 0.8 | 0.5 | 16 |
| | | 30 | 73 | 262 | 2.6 | 1.7 | 1.4 | 22 | 1.3 | 1.0 | 0.7 | 19 |
| | | 40 | 85 | 307 | 2.8 | 1.9 | 1.6 | 27 | 1.6 | 1.3 | 0.9 | 22 |
| | | 50 | 95 | 341 | 2.8 | 2.2 | 1.8 | 31 | 1.8 | 1.5 | 0.9 | 24 |
| | | 60 | 102 | 368 | 3.0 | 2.4 | 2.1 | 33 | 2.1 | 1.8 | 1.2 | 26 |
| 8 | 200 | 10 | 69 | 250 | 2.3 | 1.8 | 1.2 | <15 | 1.5 | 0.9 | 0.6 | <15 |
| | | 20 | 94 | 339 | 2.8 | 2.0 | 1.4 | 18 | 1.7 | 1.1 | 0.8 | 16 |
| | | 30 | 116 | 417 | 3.2 | 2.3 | 1.7 | 22 | 2.0 | 1.4 | 0.9 | 18 |
| | | 40 | 134 | 484 | 3.4 | 2.5 | 1.9 | 26 | 2.2 | 1.6 | 1.0 | 22 |
| | | 50 | 151 | 545 | 3.7 | 2.8 | 2.2 | 30 | 2.5 | 1.8 | 1.2 | 25 |
| | | 60 | 165 | 593 | 3.9 | 3.0 | 2.4 | 33 | 2.7 | 1.9 | 1.2 | 27 |
| 10 | 250 | 10 | 112 | 405 | 2.6 | 2.1 | 1.5 | <15 | 2.0 | 1.8 | 1.2 | <15 |
| | | 20 | 154 | 556 | 3.1 | 2.3 | 1.7 | 20 | 2.5 | 2.0 | 1.4 | 17 |
| | | 30 | 190 | 685 | 3.6 | 2.7 | 2.1 | 25 | 2.9 | 2.3 | 1.7 | 20 |
| | | 40 | 219 | 791 | 4.0 | 3.1 | 2.5 | 28 | 3.1 | 2.5 | 1.9 | 23 |
| | | 50 | 246 | 886 | 4.3 | 3.4 | 2.8 | 31 | 3.4 | 2.8 | 2.2 | 26 |
| | | 60 | 269 | 968 | 4.5 | 3.6 | 3.0 | 33 | 3.6 | 3.0 | 2.2 | 28 |
| 12 | 300 | 10 | 154 | 555 | 3.2 | 2.3 | 1.7 | <15 | 2.0 | 1.8 | 1.2 | <15 |
| | | 20 | 200 | 719 | 3.7 | 2.8 | 2.2 | 20 | 2.5 | 2.0 | 1.4 | 17 |
| | | 30 | 239 | 861 | 4.2 | 3.3 | 2.7 | 25 | 2.9 | 2.3 | 1.7 | 21 |
| | | 40 | 272 | 981 | 4.7 | 3.8 | 3.1 | 28 | 3.2 | 2.6 | 2.0 | 24 |
| | | 50 | 303 | 1091 | 4.9 | 4.0 | 3.4 | 31 | 3.7 | 3.1 | 2.5 | 27 |
| | | 60 | 333 | 1200 | 5.1 | 4.2 | 3.6 | 33 | 4.2 | 3.3 | 2.7 | 29 |

Performance Notes:

1. All SI (metric) ratings are soft conversion from I-P ratings.
2. Throw data is for air 20°F/11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
3. 'NC based on Lw(10⁻¹² watts reference) -10db
4. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.
5. When bypassing air into the plenum at the diffuser with Price R-Rings, throw may be as low as 90% of and the NC 2db higher than those listed in the performance chart.
6. When blocking for direction with the directional baffles, the air volume for a given static pressure is reduced from maximum flow listed in the performance chart by:

| Blow Patterns | Reduction |
|---------------|-----------|
| 3-Way | 0.78 |
| 2-Way | 0.56 |
| 1-Way | 0.34 |

PERFORMANCE DATA

VKD: I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 6 | 0.05 | 115 | 8 | 6 | 4 | <15 | 4/3/2 | 3 | 2 | <15 |
| | 0.08 | 145 | 9 | 7 | 5 | 19 | 4/3/2 | 3 | 2 | 16 |
| | 0.10 | 165 | 10 | 7 | 6 | 22 | 5/4/3 | 4 | 3 | 16 |
| | 0.15 | 205 | 11 | 8 | 7 | 30 | 5/4/3 | 4 | 3 | 25 |
| | 0.20 | 235 | 12 | 9 | 8 | 34 | 6/5/4 | 5 | 4 | 30 |
| | 0.25 | 265 | 13 | 10 | 9 | 37 | 7/5/4 | 5 | 4 | 34 |

Performance Notes:

1. * Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
2. ¹NC based on Lw(10⁻¹²watts reference) -10db
3. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.
4. When using Acutherm directional baffles for other than 4-way blow patterns, reduce the maximum air volume as shown below.

| Inlet Designation | Reduction | | |
|-------------------|-----------|----------------|--------------|
| | 3-Way | 2-Way Opposite | 2-Way Corner |
| 6 | 0.99 | 1.00 | 0.99 |
| 8 | 0.97 | 0.87 | 0.86 |
| 10 | 0.88 | 0.72 | 0.75 |
| 12 | 0.85 | 0.77 | 0.65 |

PERFORMANCE DATA

VRD: I-P (Inch-Pound)

| Inlet Designation | Inlet Diameter in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|-------------------|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 6 | 5 15/16 | 0.05 | 95 | 3 | 1 | <1 | 22 | <1 | <1 | <1 | <15 |
| | | 0.10 | 130 | 4 | 2 | 1 | 24 | 2 | <1 | <1 | 18 |
| | | 0.12 | 144 | 4 | 2 | 1 | 24 | 2 | <1 | <1 | 19 |
| | | 0.15 | 165 | 5 | 3 | 1 | 25 | 3 | <1 | <1 | 21 |
| | | 0.20 | 190 | 6 | 4 | 2 | 28 | 4 | 2 | <1 | 23 |
| | | 0.25 | 215 | 7 | 4 | 2 | 31 | 4 | 2 | 1 | 24 |
| 8 | 7 15/16 | 0.05 | 160 | 4 | 2 | <1 | <15 | 2 | 1 | <1 | <15 |
| | | 0.10 | 218 | 6 | 2 | 1 | 22 | 3 | 2 | <1 | <15 |
| | | 0.13 | 252 | 7 | 2 | 1 | 26 | 4 | 2 | <1 | <15 |
| | | 0.15 | 275 | 8 | 3 | 1 | 29 | 4 | 2 | <1 | <15 |
| | | 0.20 | 318 | 9 | 3 | 2 | 34 | 5 | 3 | 2 | 19 |
| | | 0.25 | 360 | 9 | 4 | 2 | 39 | 6 | 3 | 2 | 22 |
| 10 | 9 15/16 | 0.05 | 240 | 6 | 4 | 2 | 21 | 3 | 1 | <1 | 19 |
| | | 0.10 | 333 | 8 | 6 | 3 | 27 | 5 | 3 | <1 | 20 |
| | | 0.14 | 407 | 9 | 7 | 4 | 32 | 6 | 4 | 1 | 21 |
| | | 0.15 | 425 | 9 | 7 | 4 | 33 | 6 | 4 | 1 | 21 |
| | | 0.20 | 495 | 10 | 8 | 5 | 38 | 7 | 5 | 2 | 25 |
| | | 0.25 | 565 | 11 | 8 | 5 | 43 | 7 | 5 | 2 | 29 |
| 12 | 11 15/16 | 0.05 | 320 | 8 | 4 | 1 | 16 | 5 | 1 | <1 | 16 |
| | | 0.10 | 448 | 9 | 6 | 3 | 27 | 6 | 2 | 1 | 18 |
| | | 0.15 | 540 | 10 | 7 | 4 | 36 | 7 | 2 | 1 | 19 |
| | | 0.17 | 576 | 10 | 7 | 4 | 38 | 7 | 2 | 1 | 21 |
| | | 0.20 | 630 | 11 | 8 | 5 | 41 | 8 | 3 | 1 | 24 |
| | | 0.25 | 720 | 11 | 8 | 6 | 45 | 8 | 4 | 1 | 28 |

Performance Notes:

1. *Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
2. 'NC based on Lw(10⁻¹² watts reference) -10db
3. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.
4. Ratings independently verified by inchcape Testing Services, ETL Testing Laboratories (pending).

PERFORMANCE DATA

VRD: SI (Metric)

| Inlet Designation | Nominal Inlet Diameter mm | Inlet Static Pressure Pa | Maximum Flow | | Maximum Flow | | | | 25% Maximum Flow | | | |
|-------------------|---------------------------|--------------------------|--------------|------|-----------------|----------|----------|-----|------------------|----------|----------|-----|
| | | | | | Throw (m)* @vt= | | | | Throw (m)* @vt= | | | |
| | | | L/s | m³/h | 0.25 m/s | 0.50 m/s | 0.75 m/s | 'NC | 0.25 m/s | 0.50 m/s | 0.75 m/s | 'NC |
| 6 | 150 | 10 | 42 | 150 | 0.9 | 0.3 | 0.3 | 22 | 0.2 | <0.3 | <0.3 | <15 |
| | | 20 | 55 | 198 | 1.1 | 0.5 | 0.3 | 23 | 0.5 | <0.3 | <0.3 | <15 |
| | | 30 | 68 | 245 | 1.4 | 0.8 | 0.3 | 24 | 0.7 | <0.3 | <0.3 | 19 |
| | | 40 | 80 | 290 | 1.6 | 1.0 | 0.4 | 26 | 1.0 | 0.4 | <0.3 | 21 |
| | | 50 | 90 | 324 | 1.8 | 1.1 | 0.5 | 28 | 1.1 | 0.5 | 0.3 | 23 |
| | | 60 | 99 | 358 | 2.1 | 1.2 | 0.6 | 30 | 1.2 | 0.6 | 0.3 | 24 |
| 8 | 200 | 10 | 70 | 253 | 1.1 | 0.6 | 0.3 | <15 | 0.6 | 0.3 | <0.3 | <15 |
| | | 20 | 92 | 331 | 1.6 | 0.7 | 0.3 | 19 | 0.8 | 0.4 | <0.3 | <15 |
| | | 30 | 114 | 410 | 2.1 | 0.8 | 0.3 | 25 | 1.0 | 0.5 | <0.3 | <15 |
| | | 40 | 134 | 483 | 2.5 | 0.9 | 0.4 | 30 | 1.3 | 0.7 | 0.4 | 16 |
| | | 50 | 150 | 541 | 2.6 | 1.0 | 0.5 | 34 | 1.5 | 0.8 | 0.5 | 19 |
| | | 60 | 166 | 599 | 2.7 | 1.2 | 0.6 | 38 | 1.8 | 0.9 | 0.6 | 21 |
| 10 | 250 | 10 | 105 | 377 | 1.7 | 1.1 | 0.6 | <15 | 0.8 | 0.2 | <0.3 | <15 |
| | | 20 | 140 | 504 | 2.1 | 1.5 | 0.8 | 22 | 1.2 | 0.6 | <0.3 | 18 |
| | | 30 | 175 | 630 | 2.5 | 1.9 | 1.1 | 29 | 1.6 | 1.0 | 0.3 | 20 |
| | | 40 | 208 | 748 | 2.8 | 2.2 | 1.4 | 34 | 1.9 | 1.3 | 0.4 | 22 |
| | | 50 | 234 | 844 | 3.1 | 2.3 | 1.4 | 38 | 2.0 | 1.4 | 0.5 | 25 |
| | | 60 | 261 | 939 | 3.3 | 2.4 | 1.5 | 42 | 2.1 | 1.5 | 0.6 | 28 |
| 12 | 300 | 10 | 139 | 501 | 2.4 | 1.2 | 0.2 | <15 | 1.5 | 0.3 | <0.3 | <15 |
| | | 20 | 188 | 676 | 2.7 | 1.6 | 0.7 | 23 | 1.7 | 0.5 | 0.3 | 17 |
| | | 30 | 229 | 826 | 2.9 | 1.9 | 1.0 | 31 | 2.0 | 0.6 | 0.3 | 19 |
| | | 40 | 264 | 951 | 3.1 | 2.2 | 1.3 | 37 | 2.2 | 0.7 | 0.3 | 20 |
| | | 50 | 298 | 1074 | 3.2 | 2.3 | 1.6 | 41 | 2.3 | 1.0 | 0.3 | 24 |
| | | 60 | 332 | 1197 | 3.3 | 2.4 | 1.8 | 44 | 2.4 | 1.2 | 0.3 | 27 |

Performance Notes:

1. All SI (metric) ratings are soft conversion from I-P ratings.
2. *Throw data is for air 20°F/11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
3. 'NC based on Lw(10⁻¹² watts reference) -10db
4. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.
5. Ratings independently verified by inhouse Testing Services, ETL Testing Laboratories (pending).

PERFORMANCE DATA

VLD: 2-Slot 2-Way Linear – I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 24 | 0.05 | 70 | 4 | 3 | 2 | <15 | 3 | <1 | <1 | <15 |
| | 0.10 | 90 | 5 | 4 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.15 | 120 | 9 | 7 | 4 | 21 | 6 | 4 | 3 | 20 |
| | 0.18 | 135 | 10 | 8 | 5 | 23 | 7 | 5 | 3 | 22 |
| | 0.20 | 140 | 10 | 8 | 5 | 25 | 7 | 5 | 3 | 24 |
| | 0.25 | 165 | 13 | 10 | 7 | 30 | 8 | 6 | 4 | 29 |
| 36 | 0.05 | 80 | 4 | 3 | 2 | <15 | 3 | <1 | <1 | <15 |
| | 0.10 | 115 | 7 | 5 | 3 | 16 | 4 | 3 | <1 | <15 |
| | 0.14 | 143 | 9 | 7 | 5 | 22 | 6 | 4 | 2 | 21 |
| | 0.15 | 150 | 9 | 7 | 5 | 23 | 6 | 4 | 2 | 22 |
| | 0.20 | 170 | 11 | 9 | 7 | 28 | 7 | 5 | 3 | 27 |
| | 0.25 | 185 | 13 | 10 | 8 | 32 | 8/6/4 | 6 | 4 | 31 |
| 48 | 0.05 | 150 | 7 | 5 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.10 | 200 | 11 | 9 | 7 | 16 | 6 | 4 | 2 | 19 |
| | 0.15 | 240 | 13 | 11 | 9 | 22 | 8 | 6 | 4 | 25 |
| | 0.17 | 256 | 15 | 12 | 9 | 23 | 9 | 6 | 4 | 27 |
| | 0.20 | 280 | 17 | 14 | 10 | 28 | 10 | 7 | 5 | 29 |
| | 0.25 | 310 | 19 | 15 | 11 | 32 | 12 | 9 | 6 | 32 |
| 60 | 0.05 | 170 | 6 | 4 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.10 | 240 | 8 | 6 | 4 | 20 | 5 | 3 | 2 | 19 |
| | 0.12 | 260 | 9 | 7 | 4 | 22 | 6 | 3 | 2 | 21 |
| | 0.15 | 290 | 10 | 8 | 5 | 26 | 7 | 4 | 3 | 25 |
| | 0.20 | 330 | 14 | 11 | 7 | 31 | 9 | 6 | 4 | 30 |
| | 0.25 | 370 | 19 | 14 | 9 | 34 | 11 | 8 | 5 | 33 |

Performance Notes:

- * Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
- 'NC based on Lw(10⁻¹² watts reference) -10db
- Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories.
- Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

The volume of induction air (into the ceiling) required in addition to rated air volume is:

| Inlet SP in. wg | 1- and 2- Slots CFM | 4-Slots CFM |
|-----------------|---------------------|-------------|
| 0.05 | 7 | 11 |
| 0.10 | 9 | 14 |
| 0.15 | 11 | 17 |
| 0.20 | 12.5 | 20 |

PERFORMANCE DATA

VLD: 2-Slot 1-Way Linear – I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 24 | 0.05 | 65 | 6 | 4 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.07 | 75 | 7 | 5 | 4 | 17 | 5 | 3 | <1 | 17 |
| | 0.1 | 90 | 9 | 7 | 5 | 20 | 6 | 4 | 2 | 19 |
| | 0.15 | 110 | 14 | 11 | 7 | 25 | 9 | 6 | 4 | 24 |
| | 0.2 | 130 | 17 | 13 | 8 | 29 | 10 | 7 | 5 | 28 |
| | 0.25 | 145 | 19 | 14 | 9 | 32 | 12 | 9 | 6 | 31 |
| 36 | 0.05 | 85 | 5 | 3 | 2 | 16 | 3 | <1 | <1 | <15 |
| | 0.1 | 120 | 9 | 7 | 5 | 23 | 5 | 4 | 2 | 22 |
| | 0.12 | 130 | 11 | 8 | 6 | 24 | 6 | 5 | 3 | 23 |
| | 0.15 | 145 | 13 | 10 | 7 | 26 | 8 | 6 | 4 | 25 |
| | 0.2 | 165 | 16 | 12 | 8 | 30 | 10 | 7 | 5 | 29 |
| | 0.25 | 180 | 18 | 14 | 9 | 33 | 12 | 9 | 6 | 32 |
| 48 | 0.05 | 150 | 8 | 6 | 4 | 17 | 5 | 4 | 2 | <15 |
| | 0.1 | 200 | 15 | 13 | 8 | 24 | 9 | 6 | 4 | 20 |
| | 0.15 | 240 | 22 | 17 | 11 | 30 | 13 | 9 | 6 | 26 |
| | 0.17 | 256 | 23 | 17 | 11 | 31 | 13 | 10 | 6 | 27 |
| | 0.2 | 280 | 24 | 18 | 12 | 32 | 14 | 11 | 7 | 28 |
| | 0.25 | 310 | 25 | 19 | 13 | 35 | 15 | 12 | 7 | 31 |
| 60 | 0.05 | 170 | 6 | 4 | 3 | 17 | 4 | 3 | <1 | 16 |
| | 0.1 | 230 | 14 | 11 | 7 | 24 | 8 | 6 | 4 | 23 |
| | 0.13 | 263 | 17 | 13 | 8 | 28 | 11 | 7 | 5 | 27 |
| | 0.15 | 280 | 19 | 14 | 9 | 30 | 12 | 8 | 5 | 29 |
| | 0.2 | 320 | 20 | 15 | 10 | 32 | 12 | 9 | 6 | 31 |
| | 0.25 | 360 | 22 | 17 | 11 | 35 | 13 | 10 | 6 | 34 |

Performance Notes:

1. * Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
2. 'NC based on Lw(10⁻¹²watts reference) -10db
3. Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories.
4. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

The volume of induction air (into the ceiling) required in addition to rated air volume is:

| Inlet SP in. wg | 1- and 2- Slots CFM | 4-Slots CFM |
|-----------------|---------------------|-------------|
| 0.05 | 7 | 11 |
| 0.10 | 9 | 14 |
| 0.15 | 11 | 17 |
| 0.20 | 12.5 | 20 |

PERFORMANCE DATA

VLD: 1-Slot 1-Way Linear – I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 24 | 0.05 | 45 | 6 | 4 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.10 | 60 | 9 | 7 | 4 | 19 | 6 | 4 | 2 | <15 |
| | 0.15 | 70 | 13 | 10 | 7 | 23 | 8 | 6 | 4 | 16 |
| | 0.18 | 76 | 15 | 11 | 8 | 25 | 9 | 7 | 5 | 19 |
| | 0.20 | 80 | 17 | 12 | 8 | 27 | 10 | 8 | 5 | 21 |
| | 0.25 | 90 | 19 | 14 | 9 | 30 | 12 | 9 | 6 | 24 |
| 36 | 0.05 | 70 | 6 | 4 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.07 | 78 | 8 | 6 | 4 | 17 | 5 | 3 | <1 | <15 |
| | 0.10 | 90 | 10 | 8 | 6 | 20 | 6 | 4 | 2 | <15 |
| | 0.15 | 110 | 13 | 10 | 7 | 24 | 8 | 6 | 4 | 17 |
| | 0.20 | 125 | 18 | 14 | 9 | 28 | 10 | 7 | 5 | 21 |
| | 0.25 | 140 | 20 | 15 | 10 | 31 | 12 | 9 | 6 | 24 |
| 48 | 0.05 | 90 | 6 | 4 | 3 | 16 | 4 | 3 | <1 | <15 |
| | 0.10 | 125 | 14 | 10 | 6 | 23 | 8 | 6 | 4 | 17 |
| | 0.12 | 135 | 16 | 12 | 7 | 25 | 10 | 7 | 4 | 18 |
| | 0.15 | 150 | 20 | 14 | 8 | 28 | 12 | 8 | 5 | 20 |
| | 0.20 | 175 | 21 | 15 | 9 | 31 | 13 | 10 | 6 | 24 |
| | 0.25 | 190 | 22 | 17 | 11 | 34 | 14 | 12 | 7 | 28 |
| 60 | 0.05 | 100 | 6 | 5 | 4 | 17 | 4 | 3 | <1 | <15 |
| | 0.09 | 140 | 9 | 7 | 6 | 23 | 6 | 4 | 2 | 18 |
| | 0.10 | 150 | 10 | 8 | 6 | 24 | 6 | 4 | 2 | 19 |
| | 0.15 | 180 | 15 | 13 | 8 | 30 | 9 | 6 | 4 | 23 |
| | 0.20 | 210 | 17 | 13 | 9 | 32 | 10 | 7 | 5 | 26 |
| | 0.25 | 230 | 20 | 15 | 10 | 35 | 12 | 9 | 6 | 29 |

Performance Notes:

- * Throw data is for air at 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
- 'NC based on Lw(10⁻¹² watts reference) -10db
- Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories.
- Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

The volume of induction air (into the ceiling) required in addition to rated air volume is:

| Inlet SP in. w.g | 1- and 2- Slots CFM | 4-Slots CFM |
|------------------|---------------------|-------------|
| 0.05 | 7 | 11 |
| 0.10 | 9 | 14 |
| 0.15 | 11 | 17 |
| 0.20 | 12.5 | 20 |

PERFORMANCE DATA

VLD: 4-Slot 2-Way Linear – I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 24 | 0.05 | 150 | 4 | 3 | 2 | <15 | 3 | 2 | <1 | <15 |
| | 0.10 | 210 | 7 | 5 | 3 | 23 | 4 | 3 | <1 | 22 |
| | 0.13 | 240 | 8 | 6 | 4 | 25 | 5 | 4 | 2 | 24 |
| | 0.15 | 260 | 9 | 7 | 5 | 26 | 5 | 4 | 2 | 25 |
| | 0.20 | 300 | 11 | 9 | 7 | 30 | 7 | 5 | 3 | 29 |
| | 0.25 | 335 | 13 | 11 | 8 | 33 | 8 | 6 | 4 | 32 |
| 36 | 0.05 | 185 | 5 | 4 | 3 | <15 | 3 | 2 | <1 | <15 |
| | 0.10 | 260 | 8 | 6 | 4 | 23 | 5 | 4 | 2 | 22 |
| | 0.13 | 296 | 9 | 7 | 5 | 25 | 6 | 5 | 3 | 24 |
| | 0.15 | 320 | 10 | 8 | 6 | 27 | 6 | 5 | 3 | 26 |
| | 0.20 | 370 | 12 | 10 | 8 | 31 | 8 | 6 | 4 | 30 |
| | 0.25 | 410 | 14 | 12 | 9 | 34 | 9 | 7 | 4 | 33 |
| 48 | 0.05 | 275 | 8 | 7 | 5 | <15 | 5 | 4 | 3 | <15 |
| | 0.10 | 390 | 11 | 9 | 7 | 25 | 9 | 7 | 4 | 24 |
| | 0.11 | 408 | 12 | 10 | 7 | 26 | 10 | 8 | 5 | 25 |
| | 0.15 | 480 | 14 | 12 | 9 | 32 | 12 | 10 | 7 | 31 |
| | 0.20 | 550 | 17 | 14 | 10 | 37 | 14 | 12 | 8 | 36 |
| | 0.25 | 620 | 20 | 17 | 12 | 39 | 16 | 14 | 10 | 38 |
| 60 | 0.05 | 430 | 9 | 8 | 6 | 20 | 5 | 4 | 2 | <15 |
| | 0.09 | 570 | 11 | 10 | 8 | 28 | 8 | 6 | 4 | 19 |
| | 0.10 | 605 | 12 | 10 | 8 | 30 | 9 | 7 | 4 | 20 |
| | 0.15 | 745 | 16 | 14 | 10 | 35 | 14 | 11 | 7 | 29 |
| | 0.20 | 860 | 19 | 16 | 12 | 39 | 15 | 13 | 8 | 34 |
| | 0.25 | 960 | 21 | 18 | 13 | 42 | 18 | 15 | 10 | 36 |

Performance Notes:

- * Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
- 'NC based on Lw(10⁻¹²watts reference) -10db
- Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories.
- Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

The volume of induction air (into the ceiling) required in addition to rated air volume is:

| Inlet SP in. wg | 1- and 2- Slots CFM | 4-Slots CFM |
|-----------------|---------------------|-------------|
| 0.05 | 7 | 11 |
| 0.10 | 9 | 14 |
| 0.15 | 11 | 17 |
| 0.20 | 12.5 | 20 |

PERFORMANCE DATA

VLD: 4-Slot 1-Way Linear – I-P (Inch-Pound)

| Nominal Length in. | Inlet Static Pressure in. w.g. | Maximum Flow CFM | Maximum Flow | | | | 25% Maximum Flow | | | |
|--------------------|--------------------------------|------------------|-------------------------------|---------|---------|-----|-------------------------------|---------|---------|-----|
| | | | Throw - Feet* @v _t | | | | Throw - Feet* @v _t | | | |
| | | | 50 FPM | 100 FPM | 150 FPM | 'NC | 50 FPM | 100 FPM | 150 FPM | 'NC |
| 24 | 0.05 | 150 | 6 | 5 | 3 | <15 | 4 | 3 | <1 | <15 |
| | 0.10 | 210 | 13 | 10 | 7 | 26 | 8 | 6 | 4 | 24 |
| | 0.13 | 240 | 17 | 13 | 8 | 27 | 10 | 7 | 5 | 25 |
| | 0.15 | 260 | 19 | 15 | 9 | 28 | 11 | 8 | 5 | 26 |
| | 0.20 | 300 | 20 | 16 | 10 | 33 | 12 | 9 | 6 | 31 |
| | 0.25 | 335 | 21 | 18 | 12 | 36 | 13 | 10 | 7 | 34 |
| 36 | 0.05 | 180 | 6 | 5 | 4 | <15 | 4 | 3 | <1 | <15 |
| | 0.10 | 250 | 14 | 12 | 8 | 26 | 8 | 6 | 4 | 24 |
| | 0.11 | 262 | 15 | 12 | 8 | 27 | 9 | 6 | 4 | 25 |
| | 0.15 | 310 | 19 | 14 | 10 | 30 | 11 | 8 | 5 | 28 |
| | 0.20 | 360 | 21 | 18 | 12 | 34 | 13 | 10 | 7 | 32 |
| | 0.25 | 400 | 22 | 19 | 13 | 37 | 14 | 12 | 7 | 35 |
| 48 | 0.05 | 315 | 16 | 13 | 9 | <15 | 9 | 7 | 4 | <15 |
| | 0.08 | 393 | 18 | 15 | 11 | 23 | 10 | 8 | 5 | 22 |
| | 0.10 | 445 | 20 | 17 | 12 | 28 | 10 | 8 | 5 | 26 |
| | 0.15 | 545 | 26 | 23 | 16 | 34 | 13 | 10 | 7 | 32 |
| | 0.20 | 630 | 35 | 29 | 21 | 38 | 19 | 15 | 9 | 36 |
| | 0.25 | 700 | 37 | 32 | 24 | 42 | 21 | 18 | 12 | 39 |
| 60 | 0.05 | 400 | 17 | 14 | 11 | 16 | 9 | 7 | 4 | <15 |
| | 0.10 | 570 | 25 | 22 | 15 | 28 | 12 | 10 | 7 | 20 |
| | 0.11 | 596 | 26 | 23 | 16 | 29 | 13 | 11 | 7 | 22 |
| | 0.15 | 700 | 32 | 26 | 18 | 34 | 15 | 13 | 9 | 31 |
| | 0.20 | 805 | 36 | 30 | 22 | 38 | 21 | 16 | 12 | 36 |
| | 0.25 | 903 | 40 | 33 | 25 | 41 | 25 | 19 | 14 | 38 |

Performance Notes:

1. * Throw data is for air 20°F 11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.
2. 'NC based on Lw(10⁻¹² watts reference) -10db
3. Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories.
4. Tested in accordance with ANSI/ASHRAE 70-1991, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

The volume of induction air (into the ceiling) required in addition to rated air volume is:

| Inlet SP in. wg | 1- and 2- Slots CFM | 4-Slots CFM |
|-----------------|---------------------|-------------|
| 0.05 | 7 | 11 |
| 0.10 | 9 | 14 |
| 0.15 | 11 | 17 |
| 0.20 | 12.5 | 20 |



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