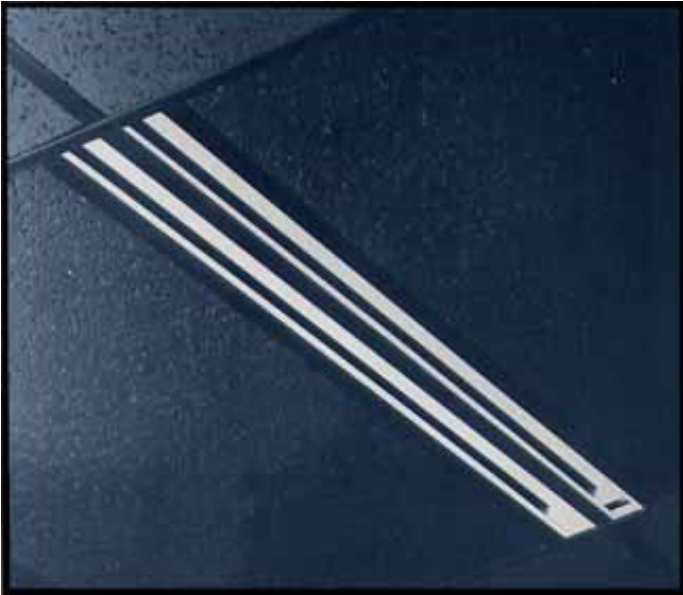


VAV LINEAR



The Vari-Flow™ linear diffuser are the latest in state-of-the-art VAV technology.

The Vari-Flow™ linear diffuser is a VAV ceiling diffuser designed for a grid ceiling system. It functions as an air diffuser, a zone of temperature control, and a VAV box.

The Vari-Flow™ linear (VLF series) provides individual temperature control for cooling at each diffuser adjustable from 70° to 78° degrees Fahrenheit. This will provide constant uniform temperature within a large office space or in smaller individual offices, regardless of heat load conditions. The net result is uniform comfort and energy savings as none of the conditioned space is over or under cooled.

FEATURES

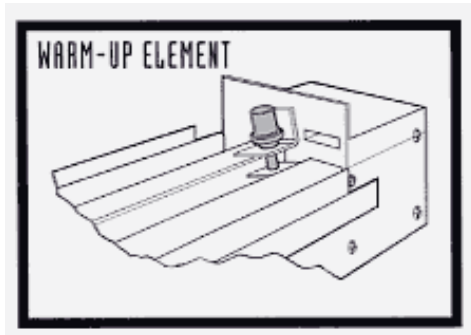
- Totally self contained control system
- Self powered thermally actuated individual VAV room control
- All controls accessible from face
- Warm up feature (optional)
- Variable discharge area
- Reduces installation costs
- Saves energy on existing & new systems
- No controls contracts



The VFL diffuser is totally self contained and self powered by a thermal element. The thermal element has a long proven history of reliability. It functions in the unit as the thermostat and "motor" to power the unit. The principle of operation of the element is a basic and simple one, that of thermal expansion when a substance changes state, in this case from a liquid to a solid. The element uses a mixture of wax and copper powder for the medium. It is blended to respond in the desired operating temperature range of 70° - 78° degrees Fahrenheit.

The energy provided by the thermal element is coupled to an efficient operating mechanism to operate the damper on the unit.

Installation is as quick and easy as a conventional ceiling diffuser because there are no electric or pneumatic connections.



■ WARM-UP FEATURE (optional) ■

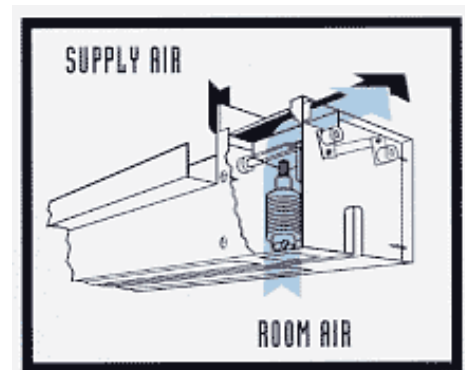
Units equipped with the optional warm-up feature have a warm-up element located on the operating mechanism in the plenum of the units. The unit goes into the warm-up mode when the supply air temperature is 78° degrees Fahrenheit or higher. The warm-up element senses the elevated supply air temperature and opens the damper (s). The unit will change back to VAV cooling when the supply air temperature drops below 70° degrees Fahrenheit.

■ TEMPERATURE CONTROL ■

The Vari-Flow™ linear diffuser has the thermal element located in the isolated induction chamber. A small amount of the primary air is discharged through the chamber creating a negative pressure that induces room air past the thermal element at all times. This assures a rapid response to changes in the room temperature.

Temperature adjustment is conveniently accessed from the face of the unit.

Adjustment is made with a standard slot screwdriver. Multiple slot units have a single temperature adjustment.



■ ADDITIONAL FEATURES ■

DIMENSIONS								
MODEL	A	B	C	D	E	F	G	H
VFL-241	23.75	2.5	15.5	6,8	5.125	21.25	2.0	4.375
VFL-242	23.75	5.25	15.5	8,10	5.125	21.25	2.0	7.25
VFL-243	23.75	8.0	15.5	8,10,12	5.125	21.25	2.0	10.0
VFL-481	47.75	2.5	15.5	8,10	5.125	45.25	2.0	4.375
VFL-482	47.75	5.25	15.5	8,10,12	5.125	45.25	2.0	7.25
VFL-483	47.75	8.0	15.5	8,10,12	5.125	45.25	2.0	10.0

NOTE: All dimensions measured in inches

- Diffuser and plenum are constructed of 24 ga. electro-galvanized and galvanized steel. One, two, and three slots models are available, in two and four foot lengths, with one and two way pattern configurations.
- Optional frames styles available for surface mount, Spline, and fine line applications.
- Inlet sizes available: 6", 8", 10" and 12"
- Standard finish is white.

VF	L	24	2	1	W	10	W
variflow series	(L) linear	nominal size in inches (24 and 48 inches)	number of slots (1, 2 or 3)	direction of discharge (1) one way, (2) two way	(C) VAV cooling only (H) VAV cool with warm-up	inlet size (08, 10 and 12) inches available	finish: (W) white, (B) black, (S) special