



VECTOR FLOOR

BY SMITH'S ENVIRONMENTAL PRODUCTS

Vector Floor Unit

by Smith's Environmental Products

FL 100 Floor Unit

Whisper Quiet And Efficient Operation



- The Vector (FL100) Recessed Floor-Unit Is A Complete Fan Convector
- Designed For Hard To Heat Areas

- Whisper Quiet Efficient Operation
- Easily Mounts Between 16" O.C. Joists In Parallel Or Perpendicular Position
- Attractive Heel Proof Grille Design
- Completely Accessible Through Grille Openings
- Two Position Speed Switch (Max - Off - Min) Hidden Behind Grille



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Application

The "Vector" recessed floor unit represents one more unique Quiet-One 2000 solution for those hard to heat areas. Designed to fit in a 14" x 10" floor cut out, between 16" O.C. joists which are 10" or greater in depth, the "Vector" may be installed either parallel to or perpendicular to the outside wall. This flexibility in a self contained unit which can deliver up to 10,600 BTU/hr. is perfect for areas with sliding glass doors, window walls or sun porches.

The Vector's tough aluminum architecture style floor grille with beveled edges and an attractive satin anodized finish, will lend an added touch of elegance to any decor.

Engineering Specifications

Construction. The "Vector" (FL100) floor unit consists of a one piece chassis of high grade (.036") zinc coated steel with all components completely preassembled.

Floor Grille. The "Vector" grille has a tough aluminum frame with a central removable core. The frame dimensions are 15 5/8" x 11 3/4" x 3/16" thick while the core is 13 1/8" x 9 1/4" x 7/8" deep. The grille is vertically adjustable up to 1/2". The adjustable feature plus the 2 1/2" frame all around gives the installer the flexibility to mount the grille to any floor covering.

Heat Exchanger. Highly efficient dual circuited headered coil, made of copper alloy tubes brazed with lead free solder and expanded into smooth aluminum plate fins (10FPI), tested to 300psi, and sealed for quality. It's positioned in the unit for maximum heat transfer across the coil.

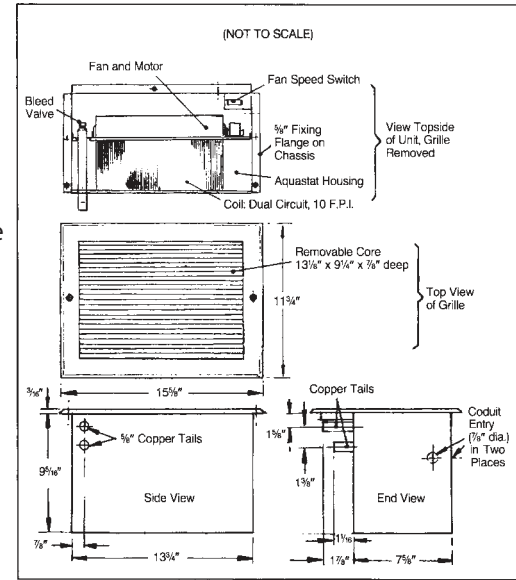
Fan and Motor Assembly. High spec tangential EBM fan and motor assembly consists of high static fan wheel and scroll, detachable motor, replaceable "easy glide" sleeve bearings, and the fan and motor cut out are protected to UL/CSA specifications. This fan and motor assembly is designed to run whisper quiet without vibration.

Water Connections. Supply and return connections are 1/2" (5/8" O.D.) sweat connections. A water vent with a wide convenient screwdriver slot is located on the return and is accessible under the grille core.

Electrical Connections. 120/60/1 power supply is required. All that's necessary is to knock out the junction box hole you want to use and wire to the L1 and L2 leads. There is a convenient one screw access plate on the unit to get at the ground.

Design. The Quiet-One 2000 "Vector" is a complete fan convector unit designed for hard to heat areas. Its operation is whisper quiet as well as efficient. The grille is attractive and practical as well, having a heel proof design. It is easily mounted and completely accessible.

Controls. The "Vector" has an integral two speed max-off-min. fan switch (optional wall mounted fan speed controller is available) which is located on the chassis below the grille core. Simply set the switch speed and the unit will operate automatically. The LTC – low limit aquastat is also a high spec item with a close tolerance designed to close on a rise to 110°F+/-3°F and open at 90°F+/-3°F. For low temperature systems you will have to change out the aquastat located in the main electrical box easily removed from its hold on clip.



FL 100 VECTOR BTU/HR @ 65° ENTERING AIR											
Unit	Flow Rate GPM	Press. Drop (Ft)	Fan Speed	ENTERING WATER TEMPERATURE (DEGREE F.) BTU/HR							
				130°	140°	150°	160°	170°	180°	190°	200°
FL 100	1	0.027	max	4049	5208	5864	6750	7674	8788	9386	10174
			min	2808	3571	4074	4704	5346	6118	6531	7170
	2	0.093	max	4168	5266	6028	6887	7815	8935	9561	10386
			min	2901	3649	4204	4810	5458	6234	6671	7293
	3	0.191	max	4287	5325	6192	7024	7957	9081	9736	10598
			min	2994	3727	4334	4915	5570	6350	6810	7415
	4	0.473	max	4330	5343	6270	7109	8149	9128	10007	10716
			min	3027	3741	4375	4978	5721	6462	7025	7505

~ Aquastat set to close on a rise to 110°F and open at 90°F
 ~ Max speed = 85 CFM; min speed = 65 CFM