

SUBMITTAL DATA INFORMATION

Supersedes 5/1/95

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 as well as other areas where wall space is at a premium.

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 1/4" 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. The heat exchanger is positioned in the unit for maximum heat transfer across the coil.

Fan and Motor Assembly. High spec tangential SEL 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.

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 130°F+/-3°F and open at 110°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.

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.

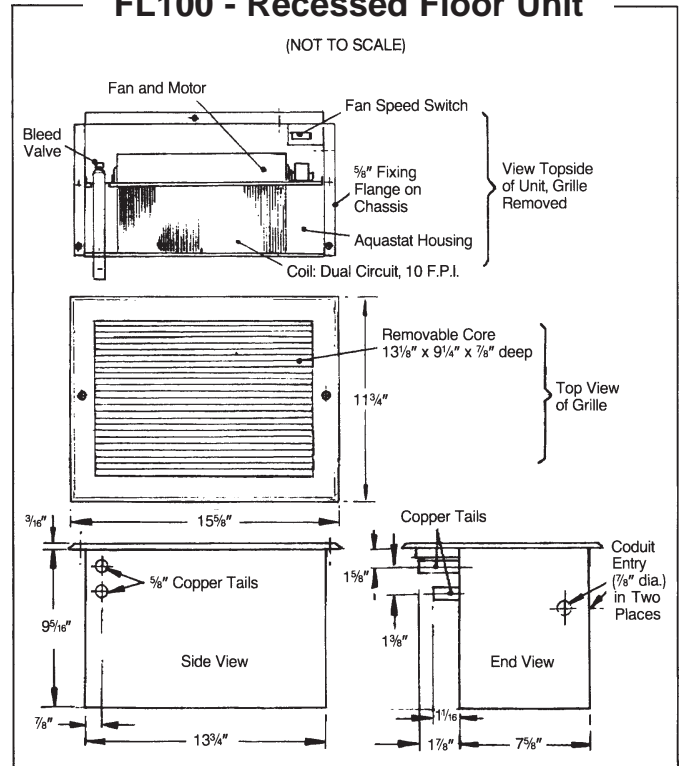
Electrical Connections. 120/60/1 power supply is required. All that’s necessary is to knock out the junction box hole you want to use and wire to the L1 and L2 leads. There is a convenient one screw access plate on the unit to get at the ground.



ENVIRONMENTAL PRODUCTS

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FL100 - Recessed Floor Unit



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.

“Vector” (FL100) BTU/Hr Outputs

Capacity for the QUIET-ONE  “Vector”											
BTU/HR @ 65°F Entering Air											
UNIT	FLOW RATE G.P.M.	PRESS. DROP (Ft.)	FAN SPEED	ENTERING WATER TEMPERATURE (Deg. F.) - BTU/Hrs.							
				130°	140°	150°	160°	170°	180°	190°	200°
FL 100	1	0.027	max. min.	4049 2808	5208 3571	5864 4074	6750 4704	7674 5346	8788 6118	9386 6531	10174 7170
	2	0.093	max. min.	4168 2901	5266 3649	6028 4204	6887 4810	7815 5458	8935 6234	9561 6671	10386 7293
	3	0.191	max. min.	4287 2994	5325 3727	6192 4334	7024 4915	7957 5570	9081 6350	9736 6810	10598 7415
	5	0.473	max. min.	4330 3027	5343 3741	6270 4375	7109 4978	8149 5721	9128 6462	10007 7025	10716 7505

- Aquastat set to close on a rise to 130°F and open at 110°F.
- Max. speed = 85 CFM; min. speed = 65 CFM.