

## PV Series Commercial SuperVent<sup>®</sup>

AIR ELIMINATOR, 2 IN. - 8 IN. PIPE SIZE

### INSTALLATION INSTRUCTIONS



### DESCRIPTION

The Honeywell Commercial SuperVent<sup>®</sup> automatically eliminates all trapped air and micro-bubbles from commercial heating and cooling systems. The SuperVent guarantees fast start-up with automatic venting, eliminates "No Heat" call backs, and helps prevent corrosion of system components. Additionally, the Honeywell SuperVent micro-bubble concentrator has three times the impact area of other products. The SuperVent is available with 2 in., 2 ½ in., 3 in., 4 in., 5 in., 6 in., or 8 in. flange sizes.

### SPECIFICATIONS

#### Models:

The Commercial SuperVent is available in three different model types: Threaded (T) blow down and Flanged (F) blow down and in Flange Cleanable (FC).

#### Construction Materials:

Welded steel construction with stainless steel concentrator wires.

**Working Pressure:** 150 psi maximum.

**Operating Temperature:** 250° F (121° C) maximum.

#### Connections:

Bottom Nipple: ¼ in. (19 mm).  
Top Nipple: ½ in. (13 mm).  
Inlet and Outlet: See Table 1.

#### System Shutoff:

Cap for system shutoff. System can be air tested.

**Flow:** Bi-directional.

**Dimensions:** See Fig. 1 and Table 1.

**Patent Information:** U.S. Patent No. 5,490,874.

**Warranty Information:** One year warranty.

#### Approvals:

ASME Certification available. Contact factory for information.

### INSTALLATION

#### When Installing this Product...

1. Read these instruction carefully. Failure to follow instructions could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained experienced service technician.
4. After installation is complete, check out the product operation as provided in these instructions.

### Procedure

#### IMPORTANT

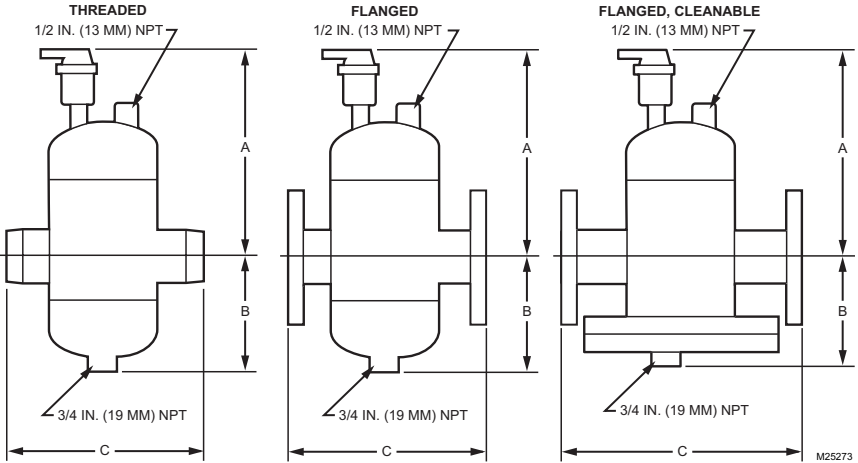
*The Honeywell SuperVent must be installed vertically in horizontal line.*

1. Locate where you would normally locate air control.
2. Install the SuperVent vertically in horizontal line.
3. Straight pipe runs up or downstream not required.
4. Install one SV173 SuperVent on top of sizes 2", 2½", 3" and 4" SuperVents. Install two SV173 SuperVents on top of sizes 5" and 6" SuperVents. Install three SV173 SuperVents on top of 8" size SuperVent. SV173 SuperVents are shipped separately.
5. Be sure to install vent check provided as part of SV173 SuperVent between SuperVent body and SV173 SuperVent.
6. Install ½" ball valve for fast initial venting on top and a ¾" ball valve for draining at bottom. (Ball valves not included with SuperVent. Purchase separately. Please contact your local Honeywell representative for more information.)
7. During normal operation, back off vent cap one complete turn.
8. Tighten vent cap only when air testing system for leaks.



**Table 1. Commercial SuperVent Dimensions**

MODEL	CONNECTIONS in.	WEIGHT lbs (Kg)	A in. (mm)	B in. (mm)	C in. (mm)	C <sub>V</sub>
PV200T	2 NPT	22.0 (10)	11.05 (281)	6.18 (157)	10.13 (257)	95
PV250T	2½ NPT	23.0 (10)	11.05 (281)	6.18 (157)	10.13 (257)	140
PV300T	3 NPT	50.0 (23)	15.63 (397)	7.95 (202)	15.50 (394)	215
PV400T	4 NPT	52.5 (24)	15.63 (397)	7.95 (202)	15.50 (394)	360
PV200F	2 FLANGE	31.5 (14)	11.05 (281)	6.18 (157)	10.25 (260)	95
PV250F	2½ FLANGE	37.0 (144)	11.05 (281)	6.18 (157)	10.25 (260)	140
PV300F	3 FLANGE	66.0 (30)	15.63 (397)	7.95 (202)	16.00 (406)	215
PV400F	4 FLANGE	78.5 (36)	15.63 (397)	7.95 (202)	16.00 (406)	360
PV500F	5 FLANGE	147.0 (67)	21.00 (533)	11.10 (282)	24.00 (610)	590
PV600F	6 FLANGE	158.0 (72)	21.00 (533)	11.10 (282)	24.00 (610)	860
PV800F	8 FLANGE	254.0 (115)	25.83 (656)	12.92 (328)	30.00 (762)	1500
PV200FC	2 FLANGE	64 (29)	11.05 (281)	5.85 (149)	12.25 (311)	95
PV250FC	2½ FLANGE	70.0 (32)	11.05 (281)	5.85 (149)	12.50 (316)	140
PV300FC	3 FLANGE	137.0 (62)	15.63 (397)	7.37 (187)	16.00 (406)	215
PV400FC	4 FLANGE	150 (68)	15.63 (397)	7.37 (187)	17.63 (448)	360
PV500FC	5 FLANGE	310.0 (141)	21.00 (533)	9.85 (250)	24.00 (610)	590
PV600FC	6 FLANGE	320.0 (145)	21.00 (533)	9.85 (250)	24.00 (610)	860
PV800FC	8 FLANGE	516.0 (234)	25.83 (656)	11.88 (302)	30.00 (762)	1500



**Fig. 1. Commercial SuperVent 2 in. - 8 in. Pipe Size dimensions.**

## Cleaning

If debris is found in the piping system, then the SuperVent needs to be cleaned. Proceed as follows to clean the Concentrator:

1. For Blow Down Version (Model T or F), open ¾" (19mm) ball valve at bottom of SuperVent.

NOTE: Concentrator may drop out under its own weight when removing blind flange. Replace on concentrator and blind flange using a new gasket where necessary.

## Service

For SV173 SuperVent replacement, do the following:

1. Reduce system pressure.
2. Remove SV173 SuperVents by unscrewing threaded connection on top of vent check. With vent check installed, pressure relieving or draining is not necessary.
3. Replace with a new SV173 SuperVent.

NOTE: Disassembly and cleaning of SV173 SuperVent is possible. Carefully unscrew vent top and clean float. Flush inside of vent. Reassemble.

**Automation and Control Solutions**

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