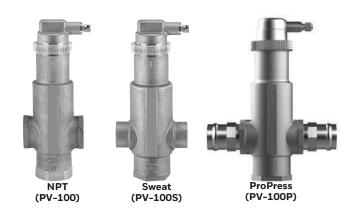
## resideo



# PV Series Residential SuperVent™

AIR ELIMINATOR, 3/4" - 2" PIPE SIZE

### INSTALLATION INSTRUCTIONS



## **DESCRIPTION**

The SuperVent automatically eliminates air and micro-bubbles from hydronic heating and cooling systems without bleeding. The SuperVent guarantees fast start-up with automatic venting, helps prevent corrosion of system components, and improves system efficiency. Additionally, the SuperVent micro-bubble concentrator has three times the impact area of other products. The SuperVent is available with 34" (19.05 mm), 1" (25.4 mm), 114" (31.75 mm), 11½" (38.1 mm), and 2" (50.8 mm) connection sizes. The SuperVent also has a removable vent top for cleaning.

## **SPECIFICATIONS**

**Models:** The SuperVent is available in several different models (see Table 1).

Construction Materials: Bronze casting with stainless steel concentrator wires.

Working Pressure: 125 psi maximum.

Operating Temperature: 0 °F to 239 °F (-17.7 °C to 115 °C).

System Shutoff: Brass cap for system shutoff. System can

be air tested.

Flow: Bi-directional.

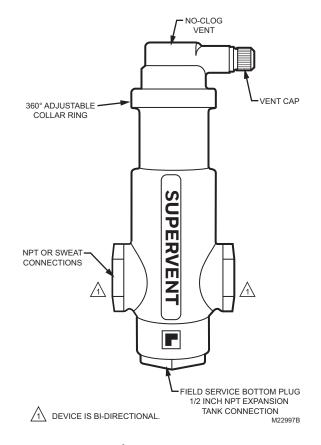


Fig. 1. SuperVent

#### **Connections:**

Bottom: ½" (12.7 mm) NPT connection for field service (cleaning) and Expansion Tank mounting.

NOTE: PVU Universal models bottom connections are same as inlet and outlet for vertical riser application.

Inlet and Outlet: See Table 1.

Dimensions: See Table 1.

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

Warranty Information: One year warranty.



Model No. Conn. / In. (mm) HxLxWIn./(mm) Lbs. (Kg) Cv PV 075 ¾" (19.05) NPT 7.4 x 2.7 x 1.9 (188 x 68 x 48) 2 (0.91) 13 1" (25.4) NPT 8.1 x 3.2 x 2.1 (206 x 81 x 53) PV 100 2.75 (1.24) 22 PV 125 1 ¼" (31.75) NPT 8.4 x 3.7 x 2.5 (213 x 94 x 63) 3.5 (1.59) 38 PV 150 1½" (38.1) NPT 9.7 x 4.3 x 3.1 (246 x 109 x 79) 5 (2.27) 53 PV 200 2" (50.8) NPT 10.7 x 5.2 x 4 (272 x 132 x 101) 8 (3.63) 95 PV 100P 1" (25.4) ProPress 8.1 x 6.4 x 2.1 (206 x 162.5 x 53) 3.26 (1.48) 22 PV 125P 1 ¼" (31.75) ProPress 8.4 x 7.5 x 2.5 (213 x 191 x 64) 4.4 (2.0) 38 34" (19.05) sweat PV 075S 7.4 x 3.2 x 1.9 (188 x 81 x 48) 2 (0.91) 13 PV 100S 1" (25.4) sweat 8.1 x 3.7 x 2.1 (206 x 94 x 53) 2.75 (1.24) 22 PV 125S 1 ¼" (31.7) sweat 8.4 x 4.4 x 2.5 (213 x 112 x 63) 3.5 (1.59) 38 PV 150S 1½" (38.1) sweat 9.7 x 5.4 x 3.1 (246 x 137 x 79) 5(2.27)53 **PV 200S** 2" (50.8) sweat 10.7 x 7 x 4 (272 x 178 x 102) 8 (3.63) 95

7.8 x 2.7 x 1.9 (198 x 68 x 48)

8.4 x 3.2 x 2.1 (213 x 81 x 53)

8.9 x 3.7 x 2.5 (226 x 94 x 63)

10 x 4.3 x 3.1 (254 x 109 x 79)

Table 1. SuperVent™ Connections and Dimensions

## INSTALLATION

**PVU 075** 

**PVU 100** 

**PVU 125** 

**PVU 150** 

PV-020 RP

## When Installing this Product...

34" (19.05) NPT

1 ¼" (31.75) NPT

Replacement Air Vent Assembly

1½" (38.1) NPT

1" (25.4) NPT

- Read these instruction carefully. Failure to follow instructions could damage the product or cause a hazardous condition.
- 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 SuperVent must be installed vertically in horizontal line.

- Locate where you would normally locate air purger or air scoops.
- 2. Install the SuperVent in a horizontal line.
- 3. Straight pipe runs up or downstream not required.
- 4. The SuperVent is bi-directional.
- 5. During normal operation, back off vent cap one complete turn.
- Tighten vent cap only when testing system for leaks or when purging system.

## **SERVICE**

## Cleaning

#### CONCENTRATOR

If due to debris in the piping system the internal part (concentrator) should become clogged, then the SuperVent needs to be cleaned as follows:

- 1. Reduce system pressure to zero.
- Unscrew bottom plug (remove Expansion Tank if installed).
- **3.** Using a hook or pliers, pull out concentrator.
- 4. Clean inside of body. Wash concentrator.

2.1 (0.95)

2.8 (1.27)

3.6 (1.63)

5.2 (2.36)

11

12

27

36

- 5. Reinstall concentrator. Insert non-loop end first. Push up as far as it will go.
- 6. Lubricate O-ring with soap and reinstall bottom plug or Expansion Tank (if used).

#### VENT

To clean or replace the vent, do the following:

- 1. Release system pressure to zero.
- 2. Unscrew vent top collar ring. This removes entire vent top assembly.
- Clean or replace the vent. Ensure float is properly attached to the lever.
- 4. Lubricate the O-ring with soap. Re-install vent top assembly.

SuperVent™ is a trademark of Resideo.



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Resideo Technologies, Inc. 1985 Douglas Drive North, Golden Valley, MN 55422 1-800-468-1502 62-3069-10 M.S. Rev. 10-20 | Printed in United States