

Air Vents and Eliminators

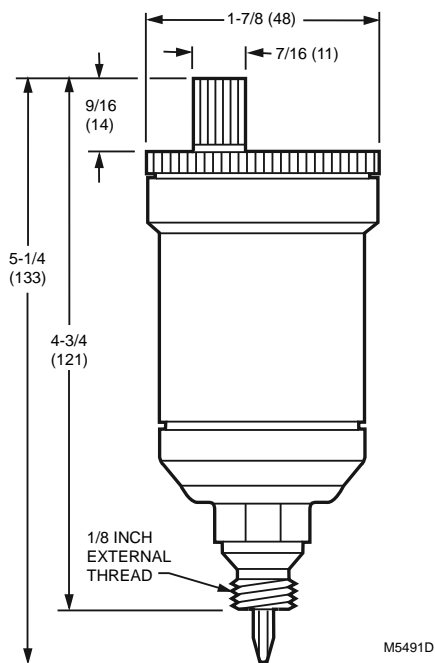
EA122A Automatic Air Vent for Non-Heating System Applications



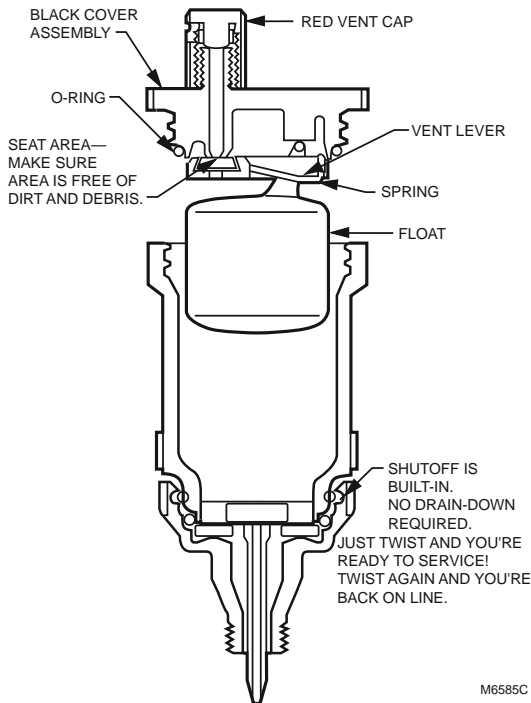
The Honeywell EA122A Automatic Air Vent purges air from high pressure mains and equipment in hot or cold potable water systems.

- Includes removable float/valve assembly for easy servicing.
- Not for use in steam systems.
- Body, cover and float assembly made of thermoplastics.
- Internal parts made of corrosion-resistant and chemical-resistant materials for use with water systems containing light concentrations of propylene glycol, mineral oils, or petroleum-based oils.
- Oil resistant seal.
- EPDM seat disc and O-ring.

Dimensions in inches (millimeters)



EA122A construction



Application: Potable water installations

Corrosion Resistant: Internal parts made of corrosion-resistant and chemical-resistant materials for use with hydronic systems that may contain concentrations of propylene or ethylene glycol.

Maximum Operating Temperature: 212 F (100 C)

Maximum Operating Pressure: 90 psi (620 kPa)

Accessories:

Q122A1001 Safe waste connector (M20 thread connection)

Replacement Parts:

P122B1002 Cover assembly including cover, float assembly and vent cap

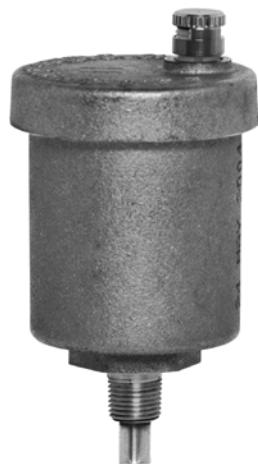
Product Number	Connection Type	Connection Size	Description
EA122A1028	Male NPT	1/8 in.	Automatic air vent with built-in shut off valve; includes EPDM seat disc and O-ring.
EA122B117	Male NPT	1/8 in.	Automatic Air vent without build-in shutoff valve or leakage guard; includes EPDM seat disc and O-ring.

Air Vent Accessories and Replacement Parts

Product Number	Description	Used With
P79B1003	Replacement O-ring, cover and internals for EA79A1004	EA79A1004
P122B1002	Cover assembly including cover, float assembly and vent cap	EA122A1002
P122B1010	Cover assembly including cover, float assembly and vent cap	EA122A1028
Q122A1001	Safe waste connector (M20 thread connection)	EA79; EA122A

Air Vents and Eliminators

GoldTop™—Universal Air Vent for Residential and Commercial Heating and Cooling Systems.



Installers, wholesalers and OEMs can now stock one vent for all their venting needs between 1 and 150 psi systems and obtain the highest venting performance. Honeywell has reinvented the vent! Air vents have been removing air from heating and cooling systems for decades. Some were better than others. Many stopped venting after initial filling. No one has, up to now, been able to design a low cost vent that performs at both low and high pressures. It was always one or the other. Honeywell's revolutionary patented fulcrum design offers a venting rate of 3-4 times that of other products. It works when others stop venting at higher pressures. The GoldTop offers convenient, one-fits-all concept and is competitively priced.

- Patent No. 5,988,201.

Application: Residential or commercial heating and cooling systems

Materials (Body): Brass

Maximum Operating Temperature: 240 F (115 C)

Maximum Operating Pressure: 150 psi (1034 kPa)

Dimensions, Approximate: 1 27/32 in. diameter x 3 1/4 in. long
(24 mm diameter x 83 mm long)

Product Number	Connection Type	Connection Size	Weight		Description
			(lb)	(kg)	
FV180	Male NPT	1/8 in.	0.4 lb	0.18 kg	1/8 in. NPT Goldtop Universal Air Vent for heating and cooling systems
FV180A	Male NPT	1/4 in.	0.4 lb	0.18 kg	1/4 in. NPT Goldtop Universal Air Vent for heating and cooling systems
FV183	Male NPT	3/4 in.	0.4 lb	0.18 kg	3/4 in. NPT Goldtop Universal Air Vent for heating and cooling systems

Hydronic Controls

Hygrovent—Automatic Vent for Hot Water or Steam



The Honeywell Hygrovent is an automatic air vent for hot water and steam systems. Install in baseboards, radiators, convectors and high points in piping systems to remove air. The nickel-plated valve has a quick venting design and a positive shut-off ball check.

Application: Hot water or steam

Materials (Body): Nickel Plated

Maximum Operating Temperature: 240 F (115 C)

Maximum Operating Pressure: Water: 125 psi; Steam: 10 psi

Dimensions, Approximate: 1 27/32 in. diameter x 3 1/4 in. long
(24 mm diameter x 83 mm long)

Product Number	Connection Type	Connection Size	Weight		Description
			(lb)	(kg)	
HV190	Male NPT	1/8 in.	0.6 lb	0.3 kg	1/8 in. NPT Automatic Air Vent for hot water or steam

Air Vents and Eliminators

MaxiVent™—Air Vent for heating and cooling systems



The Maxivent features a low profile, fit anywhere solid brass body and cover, and a high temperature polypropylene float.

Application: Residential or commercial heating and cooling systems
Materials (Body): Brass
Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 150 psi (1034 kPa)
Dimensions, Approximate: 2 in. high x 1 5/32 in. diameter (51 mm high x 29 mm diameter)

Product Number	Connection Type	Connection Size	Weight		Description
			(lb)	(kg)	
FV147	Male NPT	1/8 in.	0.12 lb	0.06 kg	1/8 in. NPT Air Vent for heating and cooling systems
FV147A	Male NPT	1/4 in.	0.12 lb	0.06 kg	1/4 in. NPT Air Vent for heating and cooling systems

AP400 Air Purger



Air Purgers provide efficient separation of air and water in hydronic heating systems. Heavy duty cast bronze construction with tappings for expansion tank and automatic air vent mountings. Removes entrapped air with internal baffle design through continuous recirculation of heating system water with use of air vent. Improves system efficiency, reduces noise and helps extend component life.

- Heavy Duty cast iron construction
- 1 inch, 1 1/4 and 1 1/2 inch models (inlet and outlet)
- 1/2 inch bottom tapping for expansion tank mount
- 1/8 inch top tapping for air vent mount
- Directional flow arrow for correct installation

Application: Closed heating systems
Materials (Body): Cast Iron
Maximum Operating Temperature: 275 F (135 C)
Maximum Operating Pressure: 125 psi (862 kPa)
Dimensions, Approximate: 6 in. long x 3-3/4 in. high x 2-3/8 in. wide (152 mm long x 95 mm high x 60 mm wide)

Product Number	Pipe Size	Connection Type	Connection Size	Weight		Description
				(lb)	(kg)	
AP400	1 in.	Female NPT	Bottom: 1/2 in.; Top: 1/8 in.	4.2 lb	1.9 kg	1 in. NPT Air Purger for closed heating systems
AP401	1 1/4 in.	Female NPT	Bottom: 1/2 in.; Top: 1/8 in.	3.8 lb	1.7 kg	1 1/4 in. NPT Air Purger for closed heating systems
AP402	1 1/2 in.	Female NPT	Bottom: 1/2 in.; Top: 1/8 in.	8.6 lb	3.9 kg	1 1/2 in. NPT Air Purger for closed heating systems

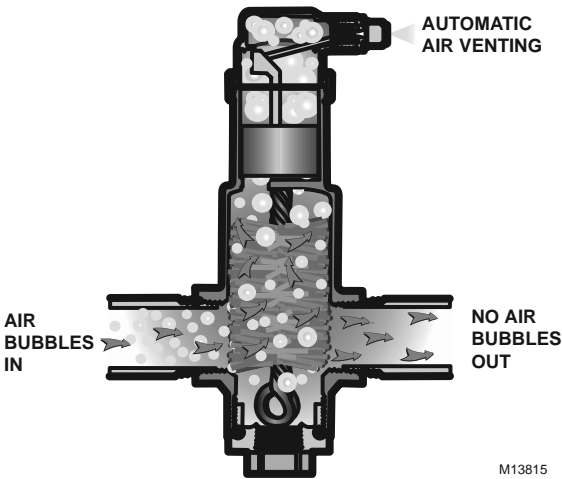
SuperVent® Air Eliminator
Eliminates Air from Hydronic Heating Systems without Bleeding



Conventional automatic air vents installed in Hydronic heating systems can leak and cause inefficient system operation. To effectively eliminate air from the system without bleeding, air bubbles need to be vented. The NEW Honeywell SuperVent purges air through a no clog vent assembly that controls dirt and debris to minimize air vent fouling.

- No clog vent.
- Dirt and Debris resistant.
- 360 degree adjustable collar ring for installation flexibility.
- Stainless steel concentrator which eliminates gurgling noise.
- Bronze body for rigid construction.
- Threaded connections.

How it works



Application: Residential or Commercial closed loop hydronic heating or chilled water systems
Materials (Body): Bronze
Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 125 psi (862 kPa)

Hydronic Controls

Product Number	Pipe Size	Connection Type	Maximum Diameter		Dimensions, Approximate		Connection Size	Capacity (Cv)	Weight	
			(inch)	(mm)	(inch)	(mm)			(lb)	(kg)
PV075	3/4 in.	Female NPT	1 13/16 in.	46 mm	6 29/32 in. high x 2 11/16 in. wide	176 mm high x 68 mm wide	3/4 in. bottom inlet	13 Cv	2 lb	0.9 kg
PV075S	3/4 in.	Sweat	1 13/16 in.	46 mm	6 29/32 in. long x 3 3/16 in. wide	176 mm high x 81 mm long	3/4 in. bottom inlet	13 Cv	2 lb	0.9 kg
PV100	1 in.	Female NPT	2 3/32 in.	53 mm	6 1/2 in. high x 3 3/32 in. wide	192 mm high x 79 mm long	1 in. bottom inlet	22 Cv	2.75 lb	1.2 kg
PV100S	1 in.	Sweat	2 3/32 in.	53 mm	6 1/2 in. high x 3 11/16 in. wide	192 mm long x 94 mm wide	1 in. bottom inlet	22 Cv	2.75 lb	1.2 kg
PV125	1 1/4 in.	Female NPT	2 1/2 in.	64 mm	7 27/32 in. high x 3 11/16 in. wide	199 mm high x 94 mm wide	1 1/4 in. bottom inlet	38 Cv	3.5 lb	1.6 kg
PV125S	1 1/4 in.	Sweat	2 1/2 in.	64 mm	7 27/32 in. high x 4 13/32 in. wide	199 mm high x 112 mm wide	1 1/4 in. bottom inlet	38 Cv	3.5 lb	1.6 kg
PV150	1 1/2 in.	Female NPT	3 3/32 in.	79 mm	9 5/32 in. high x 4 5/16 in. long	233 mm high x 110 mm long	1 1/2 in. bottom inlet	50 Cv	5.2 lb	2.4 kg
PV200	2 in.	Female NPT	4 in.	102 mm	10 9/32 in. high x 5 3/16 in. long	261 mm high x 132 mm long	2 in. bottom inlet	95 Cv	8 lb	3.6 kg

Air Vents and Eliminators

SuperVent® Air Eliminator Universal Models Eliminate Air from Hydronic Heating Systems without Bleeding



Conventional automatic air vents installed in Hydronic heating systems can leak and cause inefficient system operation. To effectively eliminate air from the system without bleeding, air bubbles need to be vented. The NEW Honeywell SuperVent purges air through a no clog vent assembly that controls dirt and debris to minimize air vent fouling.

- No clog vent.
- Dirt and Debris resistant.
- 360 degree adjustable collar ring for installation flexibility.
- Stainless steel concentrator which eliminates gurgling noise.
- Bronze body for rigid construction.
- Threaded connections.

Application: Residential or Commercial closed loop hydronic heating or chilled water systems

Materials (Body): Bronze

Maximum Operating Temperature: 240 F (115 C)

Maximum Operating Pressure: 125 psi (862 kPa)

Product Number	Pipe Size	Maximum Diameter		Dimensions, Approximate		Connection Type	Connection Size	Capacity	Weight	
		(inch)	(mm)	(inch)	(mm)			(Cv)	(lb)	(kg)
PVU075	3/4 in.	1 13/16 in.	46 mm	7 9/32 in. long x 2 11/16 in. wide	185 mm long x 68 mm wide	Female NPT	3/4 in. bottom inlet	3.6 Cv	2.1 lb	0.9 kg
PVU100	1 in.	2 3/32 in.	53 mm	7 27/32 in. high x 4 13/32 in. wide	199 mm high x 112 mm wide	Female NPT	1 in. bottom inlet	6.2 CV	2.8 lb	1.3 kg
PVU125	1 1/4 in.	2 1/2 in.	64 mm	8 1/4 in. high x 3 11/16 in. wide	212 mm high x 94 mm long	Female NPT	1 1/4 in. bottom inlet	10.5 Cv	3.6 lb	1.6 kg
PVU150	1 1/2 in.	3 3/32 in.	79 mm	9 13/32 in. high x 4 5/16 in. wide	239 mm high x 110 mm long	Female NPT	1 1/2 in. bottom inlet	14.3 Cv	5.2 lb	2.4 kg

Typical Installation

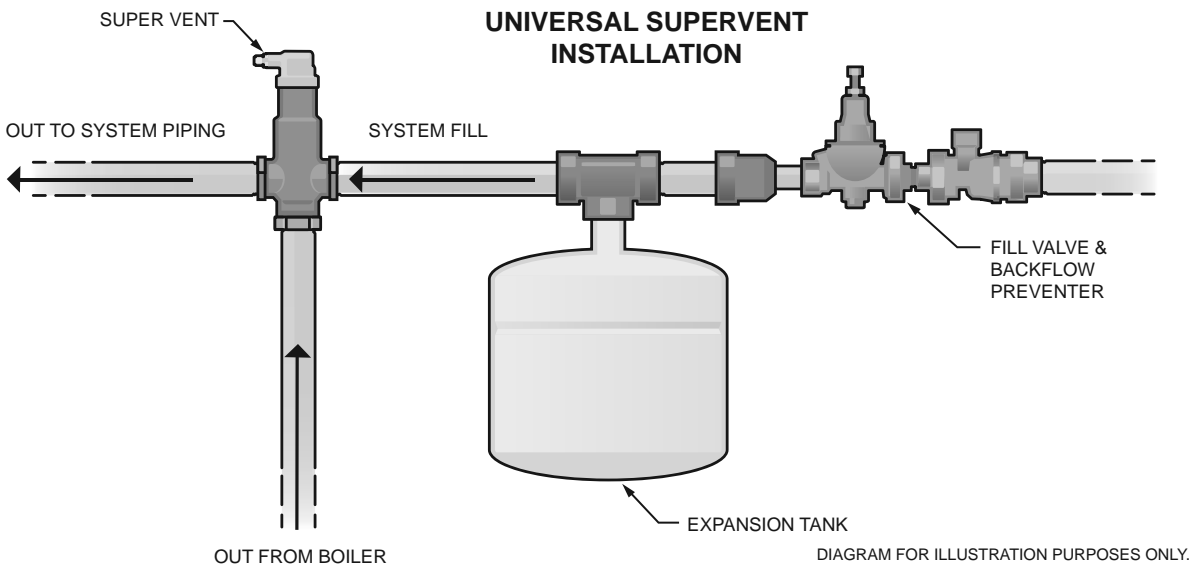
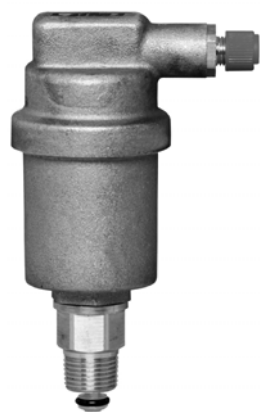


DIAGRAM FOR ILLUSTRATION PURPOSES ONLY.

M13834

SuperVent® Vent Top for Heating and Cooling Systems



The Supervent has high venting capacity and incorporates a check valve. Use with SuperVent PV Series products.

Application: Residential or commercial heating and cooling systems
Materials (Body): Brass
Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 150 psi (1034 kPa)
Dimensions, Approximate: 3 in. high x 2 in. diameter
(76 mm high x 51 mm diameter)

Product Number	Pipe Size	Connection Type	Maximum Diameter		Connection Size	Weight	
			(inch)	(mm)		(lb)	(kg)
SV173	3/8 in.	NPT	2 in.	51 mm	3/8 in.	0.43 lb	0.19 kg
SV175	1/2 in.	NPT	2 in.	51 mm	1/2 in.	0.43 lb	0.19 kg

SuperVent Replacement Parts

Product Number	Description
PV-001RP	Replacement Air Vent Assembly for PowerVent (pre 2004) size 3/4 in., 1 in., 1 1/4 in., 1 1/2 in. and 2 in.
PV-020RP	PV SuperVent Vent Top Replacement (New Style 90 Degree)

Hydronic Controls