

## Frost protection valve AAV for heat pumps



### Benefits

- For protecting monobloc or hydrosplit heat pumps against frost damage in the case of malfunctions or power outage
- Helps to avoid major damage to system components
- With integrated vacuum breaker
- Integrated mounting valve for easy replacement of the thermostatic element
- Maintenance-free



### Application

For applications with monobloc or hydrosplit heat pumps that are connected directly to the heating circuit water outdoors.

### Versions

	Part no.
Frost protection valve AAV 102	81375
Frost protection valve AAV 302	81376

Blue part no. = in-stock items

### Description

A frost protection valve with integrated vacuum breaker is installed in the flow and return lines of the system. The valve must be installed as close as possible to the outdoor unit of the heat pump so that sensitive components of the heat pump are protected from damage caused by freezing of the heating circuit water. If maintenance is required, the thermostatic cartridge can be replaced, checked and reinstalled without draining the heating circuit water thanks to the integrated mounting valve.

If the temperature of the medium in the heating system drops to 3 °C, the thermostatic element inside the valve opens so the medium can flow to the outside. The resulting negative pressure opens the vacuum breaker and supports the draining of components such as the heat exchanger, pipes, pumps or valves. If the temperature of the medium rises above 4 °C, the thermostatic element automatically shuts off the flow of the medium from the system.



## Technical specifications

### System connection

AAV 102: G1 male  
AAV 302: G1¼ AG

### Flow coefficient Kvs

AAV 102: 55 m³/h  
AAV 302: 70 m³/h

### Nominal pressure

Max. 10 bar

### Opening temperature (medium)

3 °C (± 1 °C)

### Closing temperature (medium)

4 °C (± 1 °C)

### Operating temperature range

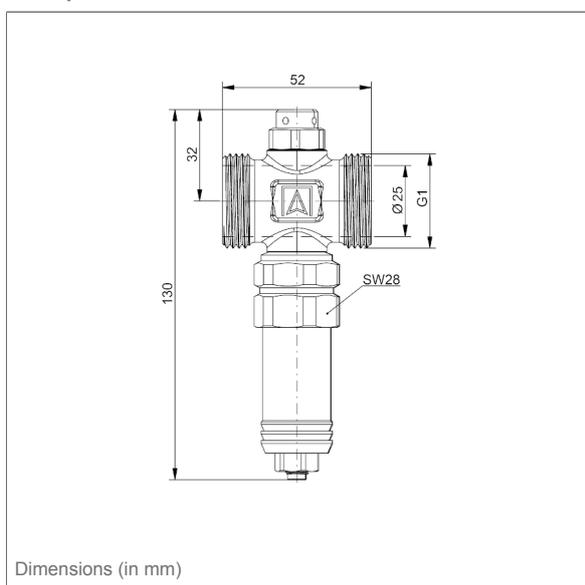
Medium: 0/70 °C  
Ambient: -30/+60 °C

### Material

Housing: Brass (CW617N)  
Spring: Stainless steel  
Seals: EPDM

## Technical drawings

Frost protection valve AAV 100



Frost protection valve AAV 300

