

508 hydroscopic

air vent



altecnic

508 hydrosopic air vent



Application

The Altecnic hydrosopic automatic air vent can manually or automatically remove any air trapped within a radiator or heat emitter both during filling the system and in normal operation.

Construction Details

| Component | Material | Grade |
|-----------------|-----------------------|--------------------|
| Body | Brass - nickel plated | BS EN 12164 CW614N |
| Knob | Polyacetal | White RAL 9010 |
| Connection seal | PTFE | |

Technical Data

| | |
|-------------------|--------|
| Max. Temperature: | 90°C |
| Max. Pressure: | 10 bar |

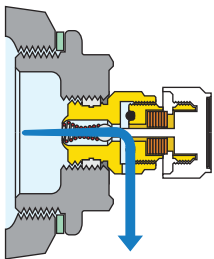
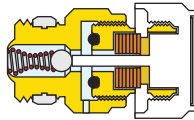
Operation

The Altecnic 508 air vent can be used manually or automatically.

By manually turning the operating knob, air in the radiator will start to escape, which should be allowed to continue until all the air is expelled when water starts to escape.

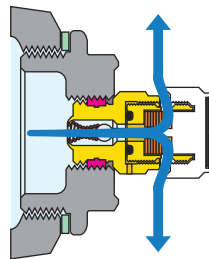
Close the air vent by turning the operating knob in the reverse direction.

In automatic mode the discharge of air is based on the properties of the cellulose fibre discs forming the sealing cartridge.



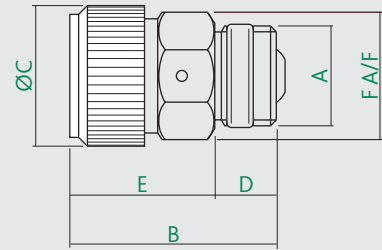
For manual operation unscrew the knob approximately one turn.

Typical use of this method is when filling or refilling the system.



The automatic discharge position is when the knob is in the fully closed position.

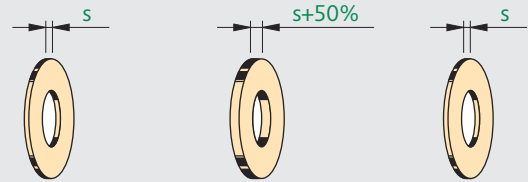
Dimensions



| Product | A | B | C | D | E | F |
|---------|---------------------------------|------|----|------|----|----|
| 508011 | G ¹ / ₈ B | 30 | 18 | 10 | 20 | 15 |
| 508021 | G ¹ / ₄ B | 30 | 18 | 10 | 20 | 15 |
| 508031 | G ³ / ₈ B | 30.5 | 18 | 10.5 | 20 | 17 |
| 508041 | G ¹ / ₂ B | 33 | 18 | 10 | 20 | 17 |

Hydrosopic Principle

The hydrosopic disc increases in volume by 50% when immersed in water.



dry disc

immersed disc

dry disc

The air vent cartridge contains a number of hydrosopic discs.

In this way, when the system is operating under normal conditions, the discs are immersed and due to their increase in volume, close the valve. However, when air is present the discs dry out and allow the air to vent.

Hydrosopic discs close very quickly, in just a few seconds.

The drying times are such that there are no problems with the cycle of formation and elimination of air.

Table of Drying Times

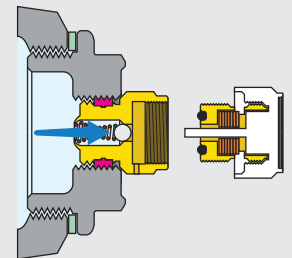
| Water Temperature | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|-------------------|----|----|----|----|----|----|-----|
| Time in hours | 6 | 5 | 2½ | 1½ | 1 | ½ | ¼ |

Cartridge Replacement

The valve is designed in such a way that the part containing the hydrosopic discs can be easily replaced without having to empty the radiator.

This may be necessary if there is unfiltered or hard water present.

It is advisable to replace the disc cartridge at least every 3 years.



E & O.E

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