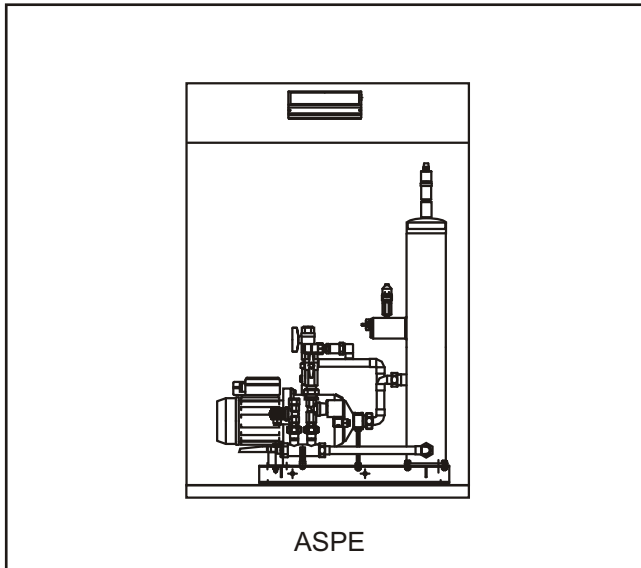


PRESSURE STEP DE-AERATOR

Model ASPE



APPLICATIONS

Pressure step de-aerators are designed to provide active de-aeration of micro-bubbles and dissolved air from heating and cooling systems in high rise buildings.

This model is designed to create the most favourable conditions for efficient air removal where centrifugal or micro-bubble air separators can not be used, for example when the system head is too great.

The basic operation involves isolating a volume of the system water in the de-aeration vessel, inducing a pressure drop with a pump to liberate dissolved air, venting and final return of the de-aerated water to the system.

They can be used accordingly for the following applications:-

- Low Temperature Heating (LTHW)
- Chilled Water (CHW)
- Condenser Water (Cond.W)

System Press. Min. (Bar)	System Press. Max. (Bar)	System Connections	Width Depth Height (mm)	Number Of Pumps	Product Code (MODEL)
1.0	8.0	1/2" BSPF	480 x 330 x 800	2	ASPE-4 A high pressure model is also available ASPE-5
<p>COMMISSIONING</p> <p>Always follow the Commissioning Guide.</p> <p>We recommend that commissioning is carried out by an experienced commissioning engineer within the 12-month warranty period.</p> <p>A commissioning service can be offered upon request.</p>					

SPECIFICATION

ASPE-4 - Heating and cooling model providing automatic vacuum de-aeration removing dissolved air, programmable microprocessor control, facility to connect to BMS, with enclosure as standard.

Noise Rating = 75 dB(A) approx.
 System Connections = DN15 (1/2") BSPP
 Weight = 50 kg approx.
 Dimensions (L x W x H) = 480 x 330 x 800 mm

Power Supply = 230V 50Hz
 Full Load Current = 2 x 3.4 Amps
 Power Used = 2 x 0.5 kW
 Fuse Rating = 13 Amps
 Safety Rating = IP54
 Maximum Turbo Runtime = 168 hours (1 week)
 Maximum Normal Downtime = 180 minutes (3 hours)
 Control Interface = RS 485
 Volt Free Contacts = Common Fault Contact

OPERATING PARAMETERS

The user may select between two de-aeration modes:

Turbo de-aeration - quick and efficient de-aeration directly after installation without any breaks between the de-aeration intervals.

Normal de-aeration - energy-saving mode with longer intervals between the de-aeration cycles. De-aeration takes place only when necessary.

Maximum System Volume = 150,000 litres
 Working Pressure Range = 1 to 8 Bar
 Maximum Installation Pressure = 8 Bar
 System De-aeration Range = 0 to 70 °C
 Ambient Temperature Range = 0 to 45 °C

NOTE: Connections to the system pipework must be made to the side of the horizontal pipe, never to the top or bottom of the pipe. Ingress of debris will prevent this equipment from operating.