

Pressure Step Deaerator (PSD)

The Flamco PSD is used to remove dissolved air from sealed chilled and heating water systems. The equipment utilises a multifunction digital controller with a simple user interface. The equipment is an advanced product that combines a pressure step principle with side system configuration to minimize the effects on the sealed system. The real-time display show the status of the equipment while monitoring the system pressure and health of its own components.

Product Features

- Password protection for parameter entry
- Pressure settings in 1 PSI increments
- Service reminder option (12 months)
- Pump exercising option (2 second pulse if inactive for 60 days)
- Event logging for pump start, pump run hours counter, electrical
- Interruption and common alarm
- Auxiliary contacts for common fault
- Pump fault, pressure transducer
- Vacuum deaerating, turbo and normal interval modes
- Pump inlet strainer and pump check valve
- Glycol mixture up to 50%
- Vacuum cylinder
- Adjustable differential
- MODBUS and RS485 connectivity
- Will deaerate system volumes up to 39,625 gallons
- Two year warranty



Application of Use:

- Commercial
- Industrial
- Residential

Material of Construction:

- Cabinet: Mild Steel AISI 1010
- Cylinder: Stainless Steel 304
- Valves: Brass
- Connection: Brass
- Pipework: Copper

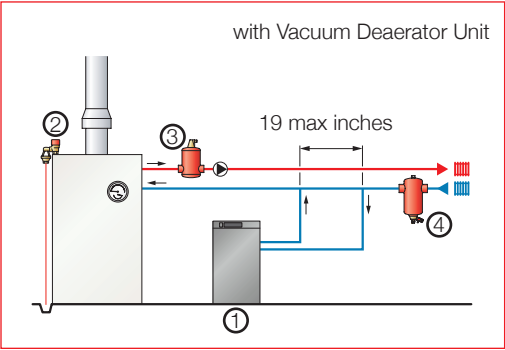
Noise Output	<75 dBA
Design Pressure	145 PSI @ 212°F
System Temperature Range	32 – 194°F
Maximum Temperature at Point of Connection	158°F
Ambient Temperature Range	32 – 113°F
Fuse Rating	10 Amps
Safety Rating	IP 54
Auxiliary Contacts	Common Fault Contact
Voltage	110v 60Hz 1PH

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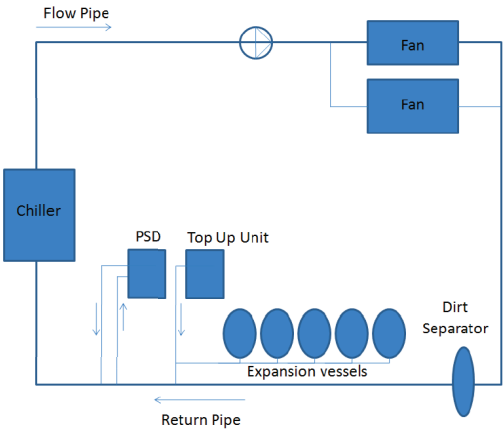
Installation and Placement

The vacuum deaerator should be installed in the return header of the system, on the suction side of the circulating pump, in a frost-free and humidity free area. The point of connection will be the same as the system expansion vessel to provide a neutral pressure reading. The two system connections must be installed on the return pipe approximately 19.5 inches apart.

System Schematics



Number	Description
1	PSD Pressure Step Deaerator
2	Safety Valve
3	Flamcovent Smart Deaerator
4	Flamco Clean Smart Dirt Separator



Power On/Off Switch

Isolation Valves

System Connections

Double Pump

Digital Controller

Automatic Air Vent with Air-Intake Preventer

Solenoid Valve

Vacuum Deaerator Cylinder

Variable Bypass Valve

Reducing Valve

Check Valve

Safety Valve

FPSD 250D

A [in]	B [in]	C [in]	D [in]	E [in]	F [in]	H [in]	K [in]
12.2	18.3	31.1	19.68	5.9	31.49	17.51	17.51

Pump Quantity	Mounting	Connections	Pressure Rating	Operating Pressure	Power Consumption	Full Load Current	Nom. Weight	Order Code
2	Floor	1/2" NPT (ISO THREADS) SHIPPED WITH ISOLATION VALVE KIT	150 PSI	14 - 87 PSI	1430 W	3.4 Amps	40	FPSD-250D

