

Hydro Separator

548 Series With Flanged Connections

Submittal Data 02911 NA - Issue Date 04/2010



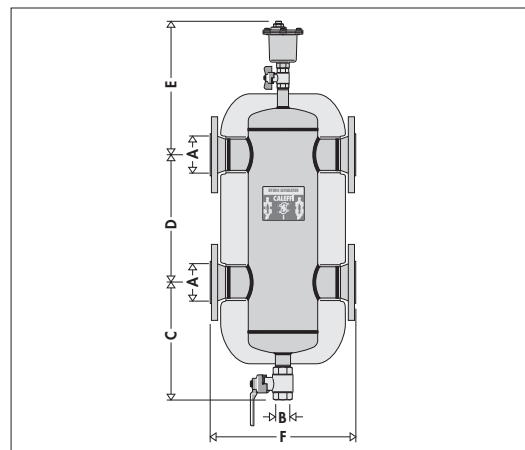
Application

The hydronic separator creates a zone with a low pressure loss, which enables the primary and secondary circuits connected to it to be hydraulically independent of each other; the flow in one circuit does not create a flow in the other.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi HydroSeparator as manufactured by Caleffi. Each separator must be designed with an epoxy resin painted steel body, a brass blowdown drain valve and automatic brass air vent with brass shutoff valve. The separator design must include ANSI B16.5 Class 150 RF flanges. Each separator shall be Caleffi model 548 or approved equal. (See product instructions for specific installation information.)

Dimensions



Technical Data

Flanged connections

Materials:

- Body: epoxy resin painted steel

- Drain and shut-off valve: brass

- Air vent body: brass

Suitable fluids: water, or 50% max. glycol solution

Max working pressure: 150 psi (10 bar)

Temperature range:

- with insulation: 32-220°F (0-105°C)

- without insulation: 32-250°F (0-120°C)

Connections:

- Flanged: 2" - 4" ANSI B 16.5 Class 150 RF

- Drain: 1 1/4" FNPT

Insulation:

Material: rigid closed cell expanded polyurethane foam

Thickness: 2 3/8" (60 mm)

Density: 3 lb/ft (45 kg/m³)

Thermal conductivity: 6 BTU/in (0.023 W/m·K)

Temperature range: 32-220° F (0 – 105°C)

External cover: Material: embossed aluminium

Thickness: 7.0-mil (0.7 mm)

Reaction to fire: class 1

Head covers: Heat moulded material: PS

Code	A	B	C	D	E	F
548052A	2"	1 1/4"	13"	13"	15"	14"
548062A	2 1/2"	1 1/4"	13"	13"	15"	14"
548082A	3"	1 1/4"	15"	17 3/4"	17"	18"
548102A	4"	1 1/4"	15"	17 3/4"	17"	18"

Code	Weight (lb)	(kg)	Flow (gpm)	(l/sec)	Volume (gal)	(l)
548052A	73.0	33.1	40.0	2.5	4.0	15.1
548062A	79.0	35.8	80.0	5.0	4.0	15.1
548082A	108.0	49.0	124.0	7.8	8.0	30.3
548102A	117.0	53.1	247.0	15.6	8.0	30.3

Hydraulic characteristics

The hydronic separator should be sized according to the maximum flow rate at the inlet. The selected design value must be the greatest between the primary circuit and the secondary circuit.

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system.

Job name
Job location
Engineer
Mechanical contractor
Contractor's P.O. No.
Representative

Size
Quantity
Approval
Service
Tag No.
Notes