Hydro Separator

548 Series With Union Connections

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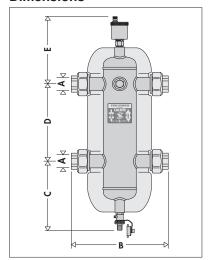
Application

The hydraulic 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 Hydro Separator as manufactured by Caleffi. Each separator must be designed with an epoxy resin painted steel body, 300 series stainless steel internal baffle, preformed insulation, a 1/2 inch NPT thermometer pocket well front center, a brass blowdown drain valve with hose connection and automatic brass air vent isolated manually with service check valve. The separator design must include sweat or NPT union fittings. Each separator shall be Caleffi model 548 series or approved equal. (See product instructions for specific installation information.)

Dimensions



Technical Data

Threaded and sweat union connections

Materials:

Body: epoxy resin painted steelDrain and shut-off valve: brass

- Air vent body: brass- Internal baffle: 300 series stainless steel

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

Max working pressure: 150 psi (10 bar)

Temperature range:

- with insulation: 32-210°F (0-100°C)
- without insulation: 32-250°F (0-120°C)

Connections:

- Main: 1" & 1 1/4" sweat & NPT and 1 1/2" & 2" NPT union

- Drain: 3/4" hose

- Thermometer pocket: 1/2"

Code	Α	В	С	D	E
548006A/96A	1"	8 3/4"	6 1/4"	8 5/8"	8"
548007A/97A	1 1/4"	9 3/8"	7 3/8"	9 1/2"	8 3/8"
548008A/98A	1 1/2"	10 7/8"	7 3/4"	10 1/4"	8 3/4"
548009A/99A	2"	12"	10 1/8"	11 7/8"	9 1/2"

Code	Wt (lb)	(kg)	Flow (gpm)	(I/sec)	Vol (gal)	(I)
548006A/96A	13	6	11	0.7	0.5	1.9
548007A/97A	17	1.8	18	1.1	0.7	2.6
548008A/98A	25	11.3	26	1.6	1.3	4.9
548009A/99A	27	12.2	37	2.3	3.5	13.2

Note: 96A, 97A, 98A, 98A have sweat unions, all others have NPT unions.

Insulation:

Material: double density closed cell expanded PE-X
 Thickness: 3/4" (20 mm)

- Density:

- internal part: 2 lb/ft³ (30 kg/m³) - external part: 3.1 lb/ft³ (50 kg/m³)

- Thermal conductivity:

32°F (0°C): 9 BTU·in/hr·ft²-°F (0.038 W/(m·K) -40°F (-40°C): 11 BTU·in/hr·ft²-°F (0.045 W/(m·K)

- Coefficient of resistance to the diffusion of vapor: > 1,300
- Temperature range: 32-210°F (0 -100°C)
- Reaction to fire (DIN 4102) : class B 2

Hydraulic characteristics

The hydraulic separator should be sized according to the maximum flow rate value at the inlet. The selected design value must be the greatest required flow rate of either the primary circuit or the secondary circuit.

	Flow Capacity				
Size	1"	1 1/4"	1 1/2"	2"	
gpm	11.0	18.0	26.0	37.0	
l/sec.	0.7	1.1	1.6	2.3	

- Heaction to life (Dirt + 102).	Class D E
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Job name	Size
Job location	Quantity
Engineer	Approval
Mechanical contractor	Service
Contractor's P.O. No.	Tag No
Renresentative	Notes