

Hydro Separator

NA548 ASME Series With Flanged Connections

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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 Hydro Separator 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. The separator must be constructed in accordance with the latest revision of the ASME Boiler and Pressure Vessel Code and stamped for 150 psi (10 bar) working pressure. Each separator shall be Caleffi model NA548 or approved equal. (See product instructions for specific installation information.)

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 1/2" - 12" ANSI B 16.5 Class 150 RF
- Drain: 1 1/4" & 2" FNPT

Insulation for versions up to 4"

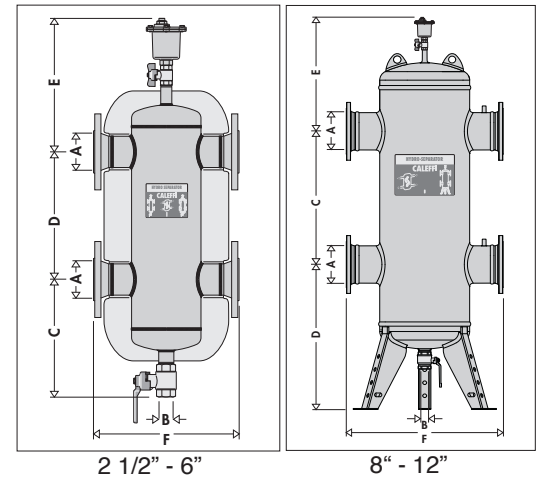
Internal Part:

- 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

Dimensions



Code	A	B	C	D	E	F
NA548052A	2"	1 1/4"	13"	13"	15"	14"
NA548062A	2 1/2"	1 1/4"	13"	13"	15"	14"
NA548082A	3"	1 1/4"	15"	17 3/4"	17"	18"
NA548102A	4"	1 1/4"	15"	17 3/4"	17"	18"
NA548120A	5"	1 1/4"	15"	22"	19"	25"
NA548150A	6"	1 1/4"	15"	22"	19"	25"
NA548200A	8"	2"	39 3/8"	33 7/8"	27 1/2"	35 1/2"
NA548250A	10"	2"	43 5/16"	35 7/8"	30"	41 3/4"
NA548300A	12"	2"	47 1/4"	37 7/8"	31 1/2"	47 3/4"

Code	Weight (lb)	(kg)	Flow (gpm)	(l/sec)	Volume (gal)	(l)
NA548052A	73.0	33.1	40.0	2.5	4.0	15.1
NA548062A	79.0	35.8	80.0	5.0	4.0	15.1
NA548082A	108.0	49.0	124.0	7.8	8.0	30.3
NA548102A	117.0	53.1	247.0	15.6	8.0	30.3
NA548120A	220.0	99.8	300.0	18.9	22.5	85.2
NA548150A	231.0	104.8	484.0	30.5	23.2	87.8
NA548200A	550.0	249.5	792.0	50.0	95.0	359.6
NA548250A	725.0	328.9	1330.0	83.9	175.0	662.4
NA548300A	1100.0	499.0	1850.0	116.7	255.0	965.3

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.

Size	Flow Capacity								
	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
gpm	40.0	80.0	124.0	247.0	330.0	485.0	792	1320	1850
l/sec.	2.5	5.0	7.8	15.6	20.8	30.6	50.0	83.3	116.7

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