

DISCAL DIRT[®] air and dirt separator



NA546 ASME & CRN Series 2 - 6 inch Flanged

Submittal Data 02920 NA — Issue Date 10/2015

Application

Air and dirt separators are used to continuously remove the air and debris contained in the hydronic circuits of heating and cooling systems. The air discharge of these devices is very high. They are capable of automatically removing all of the air present in the system down to the microbubble level. The DISCALDIRT[®] air and dirt separator also removes any solid impurities in the system. The impurities collect at the bottom of the device and can be flushed through the integral drain shut-off valve. The circulation of fully de-aerated and cleaned water enables the equipment to operate under optimum conditions, free from noise, corrosion, or mechanical damage.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi DISCALDIRT air and dirt separator as manufactured by Caleffi. Each separator must be designed with a side drain valve and automatic air vent. The separator design must include a large internal volume, and a stainless steel internal screen to automatically remove all dirt present in the system with particle separating capacity to 5µm (0.2 mil). 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 NA546 or approved equal. (See product instructions for specific installation information.)

Technical Data

- Materials** - body: epoxy resin painted steel
 - air vent body: brass
 - internal element: stainless steel
 - air vent float: PP
 - air vent float guide pin: stainless steel
 - air vent float linkages: stainless steel
 - spring: stainless steel
 - seals: EPDM
 - bottom drain shut-off valve: brass
 - side drain shut-off valve: brass

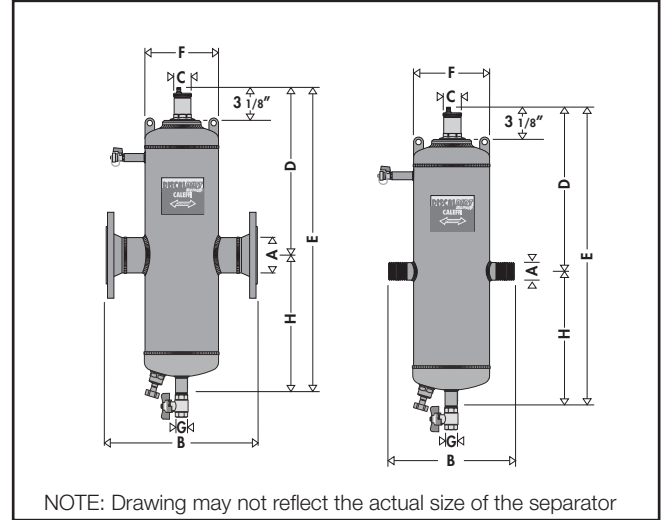
Performance

- Suitable fluids: water, glycol solution
 Max. percentage of glycol: 50%
 Max. working pressure: 150 psi (10 bar)
 Temperature range (vessel): 32–270°F (0–132°C)
 Air separation efficiency: 100% removal to microbubble level
 Particle separation capacity: to 5 µm (0.2 mil)
 Connections - flanged: 2½"–6" ANSI B16.5 150 CLASS RF
 - threaded: 2" NPT male
 - bottom drain valve: 1" NPT female

Agency approval

Designed and built in accordance with Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code and tagged and registered with the National Board of Boiler and Pressure Vessel Inspectors, stamped for 150 psi (10bar) working pressure, with ASME U stamp. CRN registered.

Dimensions

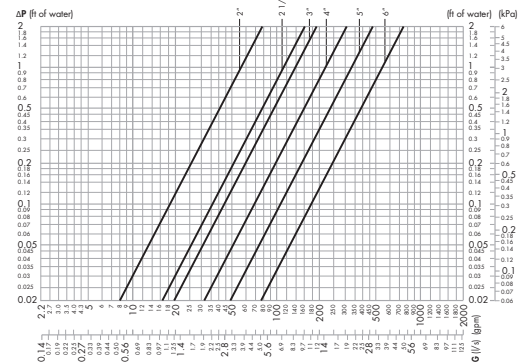


Code	A	B	C	D	E	F	G	H	Cap. (gal)	Wt. (lb)	Wt. (kg)
NA546050T	2"	13"	2½"	14⅞"	28¼"	6⅝"	1"	13⅞"	3.6	28	12.7
NA546060A	2½"	13¾"	2⅝"	14⅞"	28¼"	6⅝"	1"	13⅞"	3.6	42	18.6
NA546080A	3"	18⅝"	2⅝"	17"	34½"	8⅝"	1"	17⅞"	7.6	73	33.1
NA546100A	4"	18½"	2⅝"	17"	34½"	8⅝"	1"	17⅞"	7.8	78	35.4
NA546120A	5"	25"	2⅝"	21⅞"	46⅞"	12¾"	1"	25⅝"	22.4	181	82.1
NA546150A	6"	25"	2⅝"	21⅞"	46⅞"	12¾"	1"	25⅝"	23.0	188	85.3

ASME tagged and registered with the National Board of Boiler and Pressure Vessel Inspector and CRN registered.

		FLOW RATE						
		Size	2"	2½"	3"	4"	5"	6"
4.0 t/s	GPM		37	63	95	149	259	380
10.0 t/s	GPM		89	150	227	355	816	904
	Cv		87	174	208	324	520	832

Hydraulic characteristics



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 _____	Size _____
Job location _____	Quantity _____
Engineer _____	Approval _____
Mechanical contractor _____	Service _____
Contractor's P.O. No. _____	Tag No. _____
Representative _____	Notes _____