# DISCAL DIRT® air and dirt separator

brass

brass



# 546 Series, brass

## Submittal Data 02921.1 NA

#### **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 integal 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 brass body with large internal volume, seals in peroxidecured EPDM, blowdown drain port, and removable glass-reinforced nylon fiber mesh (PA66GF30) internal element screen/coalscing medium to automatically remove all air present in the system and all dirt present in the system, with particle separating capacity to 5µm (0.2 mil). Air separation efficiency 100% removal to microbubble level. Each air and dirt separator shall be a Caleffi model 546 or approved equal. (See product instructions for specific installation information.)

#### **Technical Data**

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- dirt separation chamber: brass - air vent body: brass - internal element: glass reinforced nylon, PA66GF30 - air vent float: PP - air vent float guide pin: stainless steel - air vent float linkages: stainless steel - spring: stainless steel peroxide-cured EPDM - seals:

#### Performance

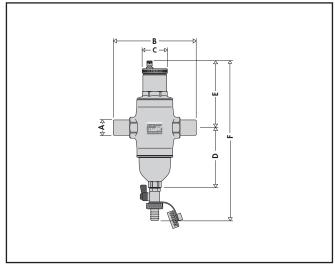
Suitable fluids: water, glycol solution Max. percentage of glycol: 50% Max. working pressure: 150 psi (10 bar) Temperature range: 32-250°F (0-120°C) 100% removal to microbubble level Air separation efficiency: Particle separation capacity: to 5 µm (0.2 mil)

- bottom drain shut-off valve:

Connections - main: 1" & 1-1/4" sweat; 1" NPT male - drain shut-off valve: 3/4" garden hose connection

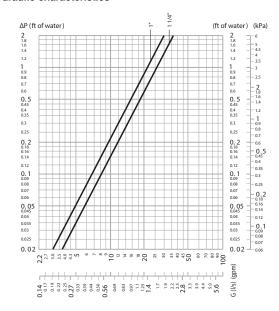
		FLOW RATE		
	Size	1"	11/4"	
4.0 f/s	GPM	10	15	
	Cv	32	40	

#### **Dimensions**



Code	Connections	Α	В	С	D	E	F	Wt. (lb)	Wt. (kg)
<b>5460</b> 96A	Sweat	1"	7%"	21/8"	5"	5½"	12¾"	8.3	3.8
<b>5460</b> 16A	NPT male	1"	7%"	21/8"	5"	5½"	12¾"	8.3	3.8
<b>5460</b> 97A	Sweat	11/4"	63/16"	21/8"	5"	5½"	12¾"	8.3	3.8

### 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