

# DISCAL<sup>®</sup> air separator



## 5517 series, brass with rotating collar

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### Application

Air separators are used to continuously remove the air contained in the hydronic circuits of heating and cooling systems. The air discharge capacity of these devices is very high. They are capable of removing automatically all the air present in the system down to the micro-bubble level.

The circulation of fully de-aerated water enables the equipment to operate under optimum conditions, free from noise, corrosion, localized or mechanical damage. Micro-bubbles, fusing with each other, increase in volume (get larger) until they become large enough to rise to the top where they are automatically released.

### Typical Specification

Furnish and install on the plans and described herein, a Caleffi DISCAL<sup>®</sup> Air Separator as manufactured by Caleffi. Each separator must be designed with a brass valve body, seals in peroxide-cured EPDM and connections for horizontal and vertical pipe installation with rotating collar. The separator design must include a removable internal 304 stainless steel mesh, coalescing medium to automatically remove all air present in the system. Each separator shall be Caleffi model 5517 or approved equal. (See product instructions for specific installation information.)

### Technical specification

<b>Materials</b>	- body:	brass
	- internal element:	304 stainless steel
	- air vent float:	PP
	- seal:	peroxide-cured EPDM
	- air vent float linkages:	stainless steel
	- air vent float guide pin:	stainless steel

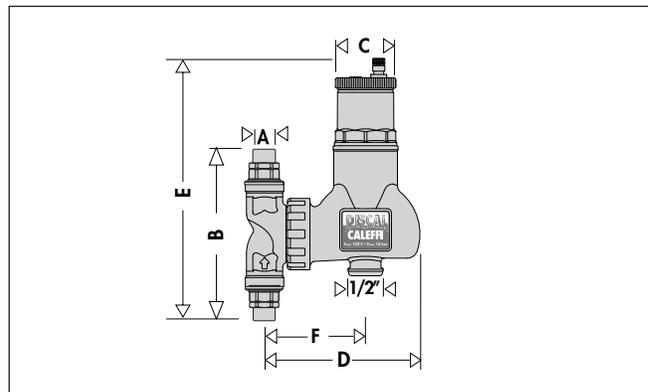
### Performance

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)
Air separation efficiency:	100% removal to micro-bubble level

<b>Connections</b>	- main:	¾" and 1" sweat, press and NPT male union
	- drain:	½" straight female thread

	Flow capacity	
	¾"	1"
4.0 f/s	GPM	6      10
	l/s	0.4    0.6
	Cv	14     14

### Dimensions



Code	A	B	C	D	E	F	Wt (lb)
551705A	¾" NPT	5 1/8"	2 3/16"	5 3/8"	9 1/4"	3 1/2"	4.9
551765A	¾" press	6 3/8"	2 3/16"	5 3/8"	9 3/4"	3 1/2"	4.9
551795A	¾" SWT	6"	2 3/16"	5 3/8"	9 3/16"	3 1/2"	4.9
551706A	1" NPT	6 3/4"	2 3/16"	5 3/8"	9 3/4"	3 1/2"	4.9
551766A	1" press	6 3/4"	2 3/16"	5 3/8"	9 3/4"	3 1/2"	4.9
551796A	1" SWT	7"	2 3/16"	5 3/8"	9 3/4"	3 1/2"	4.9
551716*	--	3 3/4"	2 3/16"	5 3/8"	9 1/4"	3 1/2"	4.4

\*Body only, no end connection fittings. Source separately, see Caleffi catalog for end connection code numbers.

Code	A	Lay length
551765A	¾" press	4 5/8"
551766A	1" press	4 3/4"

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 \_\_\_\_\_