

DISCAL[®] air separator



551 series, 2 through 6 inch

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Application

Air separators are used to continuously remove the air contained in hydronic circuits of heating and cooling systems. The air discharge capacity of these devices is very high. They automatically remove all the air present in the system down to micro-bubble level with low head loss due to the special internal shape of the separator body. The circulation of fully de-aerated water enables the equipment to operate under optimum conditions, free from noise, corrosion, localized or mechanical damage.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi DISCAL[®] air separator as manufactured by Caleffi. Each separator must be designed with a blowdown drain port, side drain valve and automatic air vent. The separator design must include a 304 stainless steel coalescing medium to automatically remove all air present in the system. Each separator shall be a Caleffi model 551 or approved equal.
(See product instructions for specific installation information.)

Technical data

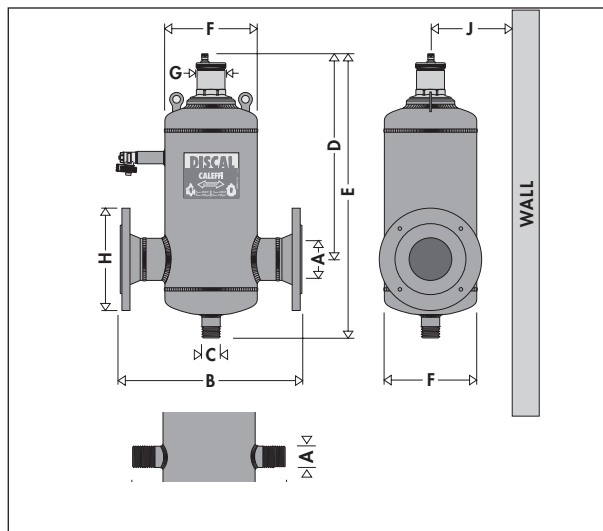
Materials	- body:	epoxy resin coated steel
	- internal element:	304 stainless steel
	- air vent float:	PP
	- seal:	peroxide-cured EPDM
	- air vent float linkages:	stainless steel
	- air vent float guide pin:	stainless steel
	- side drain shut-off valve:	brass

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

Connections	- flanged (A):	ANSI B16.5 150 CLASS RF
	- threaded(T):	2" & 2½" NPT male
	- drain pipe:	1" NPT male
	- side drain shut-off valve:	¾" GHT

		Flow capacity — steel					
	Size	2"	2 ½"	3"	4"	5"	6"
4.0 f/s	GPM	39	60	90	160	245	355
	l/s	2.5	3.8	5.7	10	15.5	22.4
10.0 f/s	GPM	100	155	220	400	615	880
	l/s	6.3	9.8	14	25.2	38.8	55.5
	Cv	87	174	208	324	520	832

Dimensions



Code	A	B	C	D	E	F
551050A	2"	13¾"	1"	14¾"	19½"	6⅝"
551050T	2"	13"	1"	14¾"	19½"	6⅝"
551060A	2½"	13¾"	1"	14¾"	19½"	6⅝"
551060T	2½"	13"	1"	14¾"	19½"	6⅝"
551080A	3"	18⅜"	1"	17⅞"	23⅞"	8⅝"
551100A	4"	18½"	1"	17⅞"	23⅞"	8⅝"
551120A	5"	25"	1"	21⅞"	30½"	12¾"
551150A	6"	25"	1"	21⅞"	30½"	12¾"

Code	G	H	J†	Cap (gal)	Wt (lb)
551050A	2⅜"	6"	6⅞"	1.8	34
551050T	2⅜"	--	6⅞"	1.8	30
551060A	2⅜"	7"	6⅞"	1.8	35
551060T	2⅜"	--	6⅞"	1.8	31
551080A	2⅜"	7½"	7⅞"	4.8	62
551100A	2⅜"	9"	7⅞"	4.8	67
551120A	2⅜"	10"	9⅞"	13.7	106

†This dimension allows for a minimum of 3" wall clearance to accommodate insulation if used.

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 _____