



551 series, 2 inch and 2 1/2 inch Steel NPT threaded

Submittal Data 2905.03 NA – Issue Date 03/2021

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 	t:	304 stainless steel
	- air vent float:		PP
	- seal:		peroxide-cured EPDM
	- air vent float link	ages:	stainless steel
	- air vent float gui	ide pin:	stainless steel
	- side drain shut-	off valve:	brass
Performance			
Suitable fluids	:		water, glycol solution
Max. percenta	age of glycol:		50%
Max. working	pressure:		150 psi (10 bar)
Temperature r	ange (vessel):		32-270°F (0-132°C)
Air separation	efficiency:	100% rem	oval to microbubble level
Connections	- 2 - 2 1/2": - drain pipe:		NPT male threaded 1" NPT male

- side drain shut-off valve:

Dimensions



Code	Α	В	С	D	Е	F
551050AT	2"	10¼"	14¾"	19 ¹⁵ /16"	1"	65/8"
551060AT	21/2"	10¼"	14¾"	19 ¹⁵ /16"	1"	61/8"

		Flov	v capacity
	Size	2"	2 ½"
4.0 f/s	GPM	39	60
4.0 1/5	l/s	2.5	3.8
10.0 f/s	GPM	100	155
10.01/8	l/s	6.3	9.8
	Cv	87	174

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

34" GHT



551 series, 2 through 6 inch

Submittal Data 2906 NA – Issue Date 10/2020

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: internal element: air vent float: seal: air vent float linkages: air vent float guide pin: side drain shut-off valve: 		epoxy resin coated steel 304 stainless steel PP peroxide-cured EPDM stainless steel stainless steel brass
Performance Suitable fluids: Max. percentage of glycol: Max. working pressure: Temperature range (vessel): Air separation efficiency:		100% rem	water, glycol solution 50% 150 psi (10 bar) 32–270°F (0–132°C) noval to microbubble level
Connections	- flanged (A):	A	ANSI B16.5 150 CLASS RF

- threaded(T): - drain pipe:
- 2" & 21/2" NPT male 1" NPT male - side drain shut-off valve: 34" GHT

		Flow capacity — steel					
	Size	2"	2 ½"	3"	4"	5"	6"
1.0.f/a	GPM	39	60	90	160	245	355
4.0 f/s	l/s	2.5	3.8	5.7	10	15.5	22.4
10.0 f/s	GPM	100	155	220	400	615	880
10.01/5	l/s	6.3	9.8	14	25.2	38.8	55.5
	Cv	87	174	208	324	520	832

Dimensions



Code	Α	В	С	D	Е	F
551 050A	2"	13¾"	1"	14¾"	19 ¹⁵ /16"	65/8"
551 050T	2"	13"	1"	14¾"	1915/16"	65/8"
551 060A	21/2"	13¾"	1"	14¾"	19 ¹⁵ /16"	65/8"
551 060T	21/2"	13"	1"	14¾"	19 ¹⁵ /16"	65/8"
551 080A	3"	18%"	1"	171/8"	237/16"	85/8"
551 100A	4"	18½"	1"	171/8"	237/16"	85/8"
551 120A	5"	25"	1"	217/16"	301/2"	12¾"
551 150A	6"	25"	1"	217/16"	30½"	12¾"

Code	G	н	J‡	Cap (gal)	Wt (lb)
551 050A	2 ¹³ /16"	6"	6 ⁵ ⁄16"	1.8	34
551 050T	2 ¹³ /16"		6 ⁵ ⁄16"	1.8	30
551 060A	2 ¹³ /16"	7"	6 ⁵ ⁄16"	1.8	35
551 060T	2 ¹³ /16"		6 ⁵ ⁄16"	1.8	31
551 080A	2 ¹³ /16"	7½"	7 ⁵ ⁄16"	4.8	62
551 100A	2 ¹³ /16"	9"	7 ⁵ ⁄16"	4.8	67
551 120A	213/16"	10"	93/8"	13.7	106

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

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

Caleffi North America, Inc. 3883 W. Milwaukee Road / Milwaukee, WI 53208 Tel: 414-238-2360 / Fax: 414-238-2366 / www.caleffi.com © Copyright 2020 Caleffi North America, Inc.

