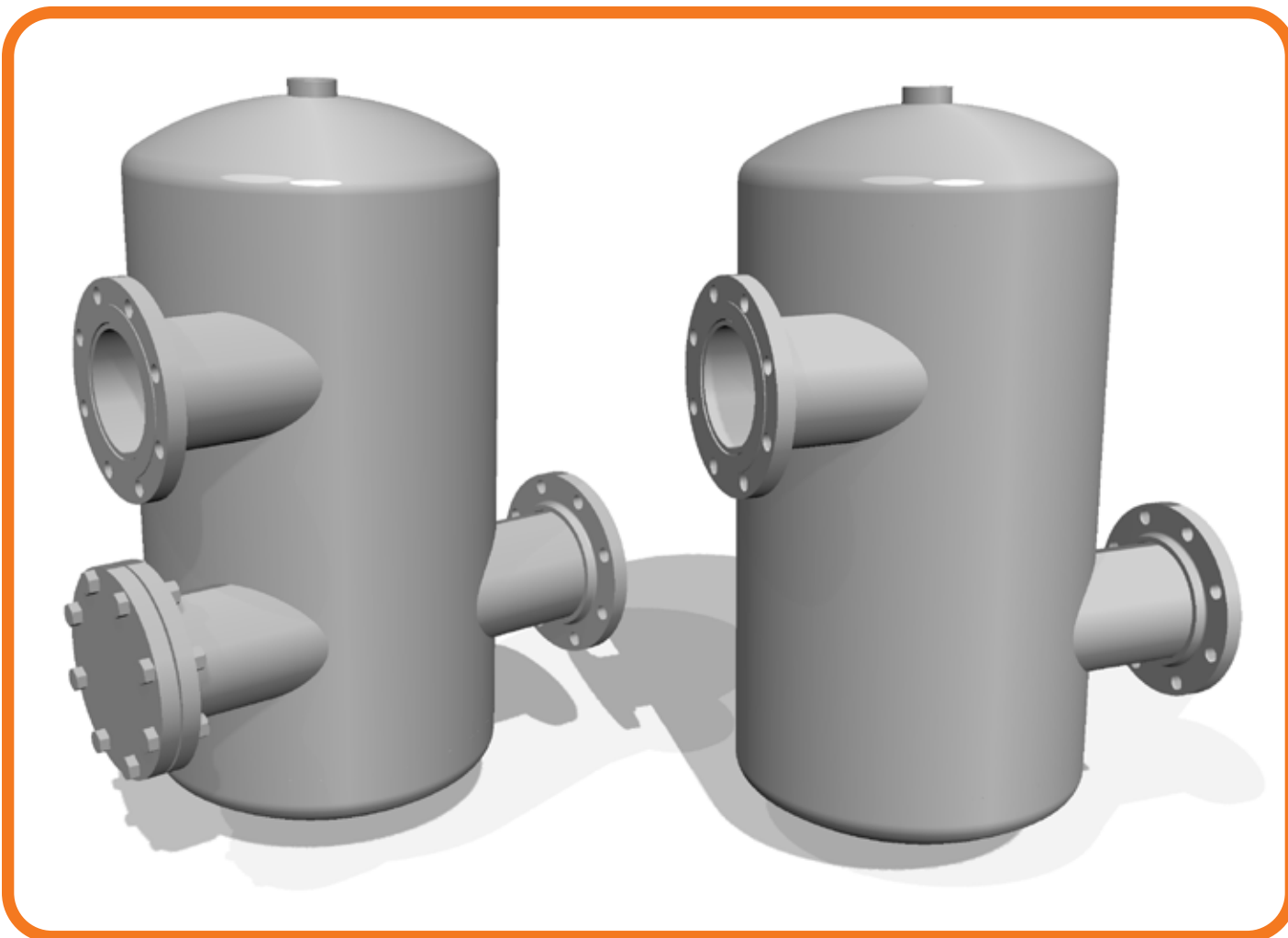


Tangential Air Separators

Cemline TAS Series Tanks are designed to remove undesired, entrained air from heating/cooling hydronic systems.

Available in Carbon or Stainless Steel.



Cemline Tangential Air Separators (TAS) extract air efficiently and rapidly from closed and open loop heating and cooling systems.

Entrained air within the systems can cause unwanted noise, efficiency loss, or damage over time. Water enters the separator through a tangential

port that creates a vortex within the tank that encourages the dissolved or entrained air to separate from the water as microbubbles and exit through an air vent at the top of the tank. The denser, air-removed water sinks to the bottom of the tank and exits the unit.

The Separator can be supplied with an optional stainless steel strainer to gather unwanted dirt and debris from the system.

CEMLINE CORPORATION

P.O. BOX 55 CHESWICK, PENNSYLVANIA 15024
Phone: (724) 274-5430 FAX: (724) 274-5448

www.cemline.com

Cemline® Tangential Air Separators

Specifications

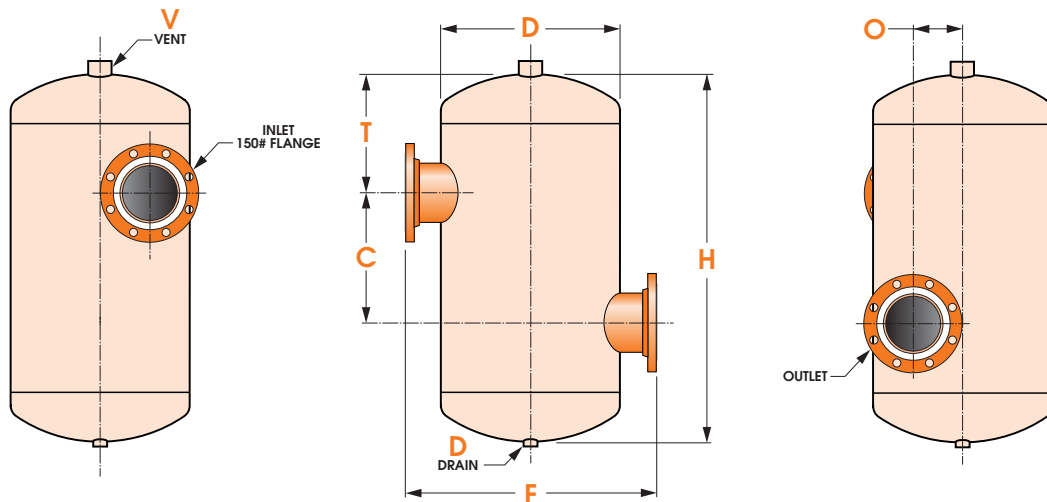
Standard Equipment

- A.S.M.E. Pressure vessel (carbon steel) rated for 125 psig @ 400°F built to A.S.M.E Section VIII, Division I.
- Mounting include leg stands, ring base, or hanging brackets.

Optional Equipment

- Insulation
 - Chilled Water System - factory mounted elastomeric thermal insulation black in color ½" through 2".
 - Hot Water System - foam R-12.5 field installed insulation with removable jacket.
- Air Vent - Reduces air accumulation in the system.
- Stainless Steel A.S.M.E. pressure vessel.

TAS without Strainer



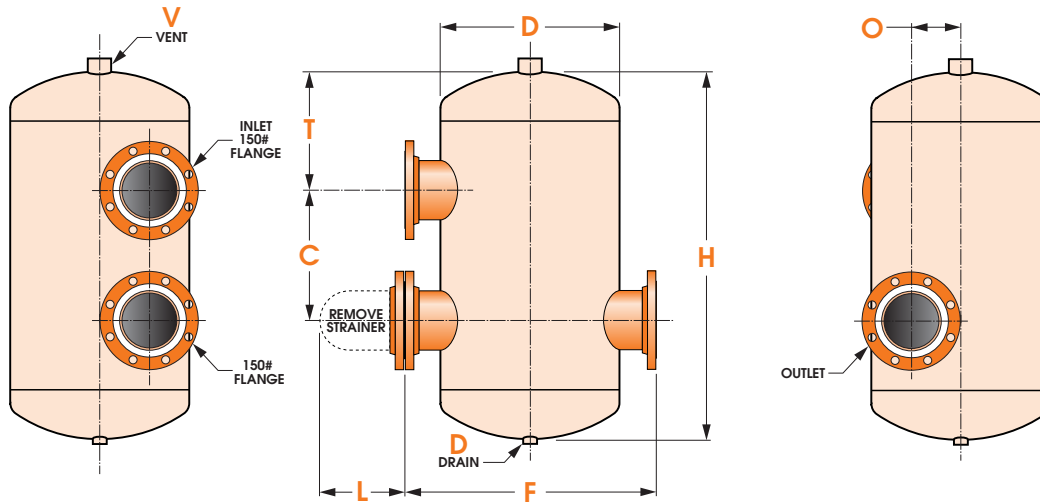
Dimensional Chart

Model No.	In/Out	D	H	"F" Face to Face	"C" Center to Center	"T" Distance from Top to Center of Inlet	"O" Flange Offset from Center Line	"V" Vent	"D" Drain	Weight (lbs)
TAS-2-N-L	2"	12"	26"	18"	9"	8 1/2"	3 1/2"	1 1/4"	1"	40
TAS-2.5-N-L	2.5"	12"	26"	18"	9"	8 1/2"	3 1/2"	1 1/4"	1"	45
TAS-3-F-L	3"	12"	26"	20"	9"	8 1/2"	3 1/2"	1 1/4"	1"	70
TAS-4-F-L	4"	14"	30"	21"	10 3/4"	9 5/8"	4 1/4"	1 1/2"	1"	85
TAS-5-F-L	5"	16"	32"	24"	12"	10"	4 3/4"	1 1/2"	1"	115
TAS-6-F-L	6"	20"	41"	28"	14 1/2"	13 1/4"	5 1/2"	2"	1"	185
TAS-8-F-L	8"	24"	52"	32"	18"	17"	6 3/4"	2"	1"	220
TAS-10-F-L	10"	30"	60"	41"	22"	19"	8 7/16"	2"	1"	475
TAS-12-F-L	12"	30"	66"	41"	26"	20"	7 7/16"	2"	1"	600
TAS-14-F-L	14"	36"	78"	47"	31 1/2"	23 1/4"	9 13/16"	2"	1"	850
TAS-16-F-L	16"	48"	99"	60"	40"	29 1/2"	14 3/4"	2"	1 1/2"	1900
TAS-18-F-L	18"	54"	116"	66"	50"	33"	16 5/8"	2"	1 1/2"	2500
TAS-20-F-L	20"	60"	130"	72"	60"	35"	18 1/8"	2"	1 1/2"	3400
TAS-22-F-L	22"	66"	142"	78"	66"	38"	20 1/8"	2"	1 1/2"	3900
TAS-24-F-L	24"	66"	142"	80"	66"	38"	19 1/2"	2"	1 1/2"	4300

Cemline® Tangential Air Separators

Dimensional Drawings

TAS with Strainer



Dimensional Chart

Model No.	In/Out	D	H	"F" Face to Face	"C" Center to Center	"T" Distance from Top to Center of Inlet	"O" Flange Offset from Center Line	"V" Vent	"D" Drain	"L"	Weight (lbs)
TAS-2-N-S	2"	12"	26"	18"	9"	8 1/2"	3 1/2"	1 1/4"	1"	18"	45
TAS-2.5-N-S	2.5"	12"	26"	18"	9"	8 1/2"	3 1/2"	1 1/4"	1"	18"	50
TAS-3-F-S	3"	12"	26"	20"	9"	8 1/2"	3 1/2"	1 1/4"	1"	18"	80
TAS-4-F-S	4"	14"	30"	21"	10 3/4"	9 5/8"	4 1/4"	1 1/2"	1"	22"	100
TAS-5-F-S	5"	16"	32"	24"	12"	10"	4 3/4"	1 1/2"	1"	22"	135
TAS-6-F-S	6"	20"	41"	28"	14 1/2"	13 1/4"	5 1/2"	2"	1"	26"	235
TAS-8-F-S	8"	24"	52"	32"	18"	17"	6 3/4"	2"	1"	30"	250
TAS-10-F-S	10"	30"	60"	41"	22"	19"	8 7/16"	2"	1"	36"	500
TAS-12-F-S	12"	30"	66"	41"	26"	20"	7 7/16"	2"	1"	36"	650
TAS-14-F-S	14"	36"	78"	47"	31 1/2"	23 1/4"	9 13/16"	2"	1"	42"	900
TAS-16-F-S	16"	48"	99"	60"	40"	29 1/2"	14 3/4"	2"	1 1/2"	54"	2200
TAS-18-F-S	18"	54"	116"	66"	50"	33"	16 5/8"	2"	1 1/2"	60"	2800
TAS-20-F-S	20"	60"	130"	72"	60"	35"	18 1/8"	2"	1 1/2"	66"	3600
TAS-22-F-S	22"	66"	142"	78"	66"	38"	20 1/8"	2"	1 1/2"	72"	4200
TAS-24-F-S	24"	66"	142"	80"	66"	38"	19 1/2"	2"	1 1/2"	72"	4600

Ordering Code

TAS

TANGENTIAL AIR SEPARATORS

OPENING SIZE

OPENING TYPE

F = Flange
N = NPT

STRAINER

L = Less Strainer
S = Strainer

MATERIAL

CS = Carbon Steel
SS = Stainless Steel

SUPPORT

N = None
C = Leg Stands
R = Ring Base
H = Hanging Bracket

INSULATION THICKNESS

0 = None
1/2" = 05**
3/4" = 075**
1" = 10"
1 1/2" = 15"
2" = 20"
R - 16"
R - 12.5"
R - 20"

LOCATION

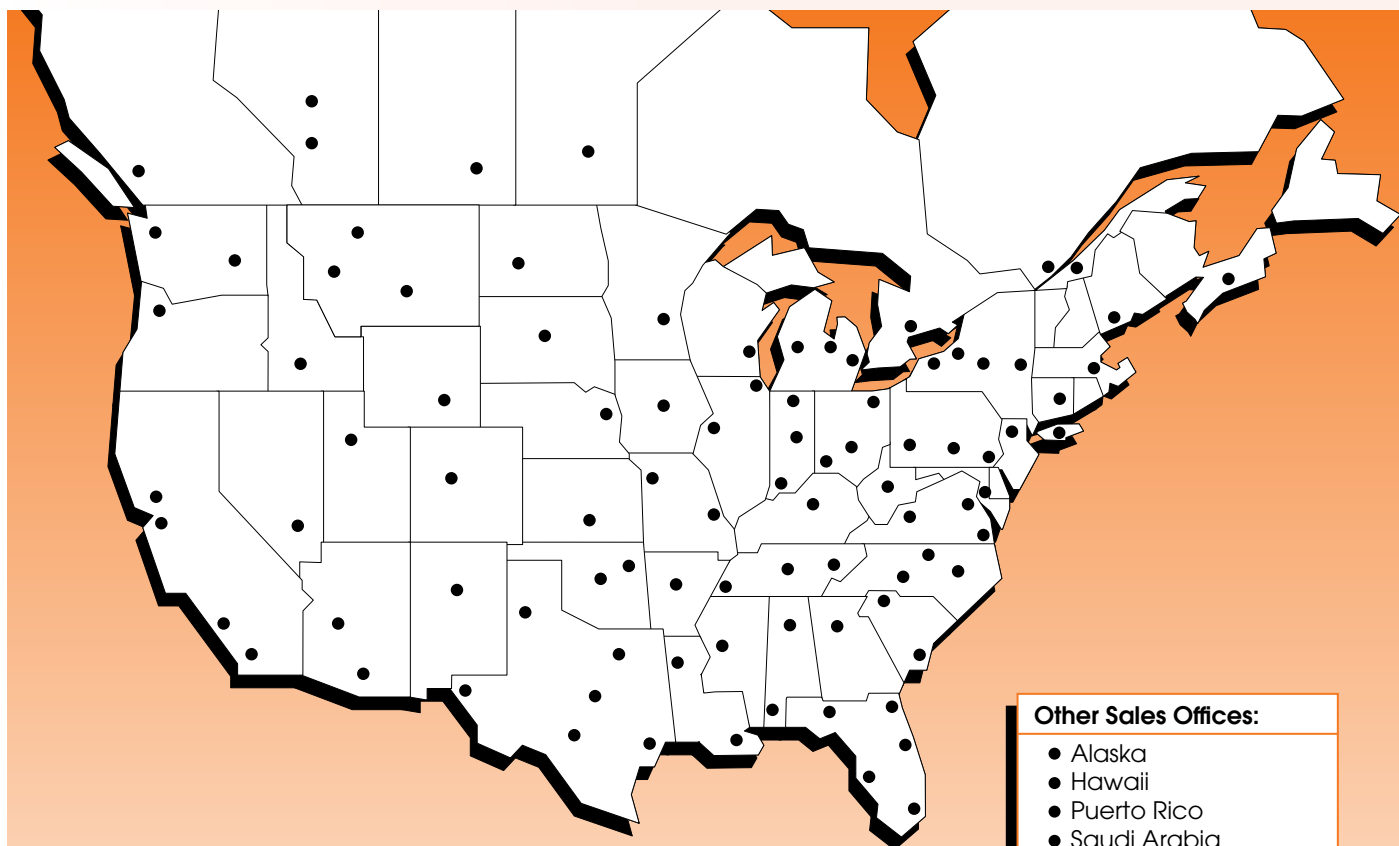
I = Indoor
O = Outdoor Coating
A = Stucco Embossed Aluminum Jack
N = No Insulation

* Insulation for Hot Water - Foam Insulation with removable jacket
** Insulation for Chilled Water - Elastomeric Insulation

TAS Series



Sales Offices



Other Sales Offices:

- Alaska
- Hawaii
- Puerto Rico
- Saudi Arabia
- Taiwan
- U.A.E.

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- Submerged Heating Coils
- Replacement Tube Bundles
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- Chilled Water Buffer Tanks
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