4900 Series Air & Dirt Separators
— Standard & High Velocity

Save money and lengthen the life of system pumps, piping, and components with the Taco 4900 Series air & dirt separators. The 4900 Series air & dirt separators are designed and constructed to ASME code, with technology proven in the field, around the world. Built with the quality and dependability that's made Taco famous for its performance and reliability. 4900 Series' internal PALL Ring basket assemblies have been developed with safety and ease of maintenance in mind.

Switchable On/ Off Magnet

Patent# 5, 123, 938

Optional removable cover

Featuring eLink® Taco Connectivity

Taco Comfort Solutions® A Taco Family Company

Supersedes: 07/13/22

Effective Date: 08/10/22
Printed in USA

Features & Benefits

Eliminate bubbles and dirt in the system before they cause trouble

Air and dirt trapped in the system can produce major problems such as reduced heat transfer, loss of efficiency, pipe corrosion, pump damage, increased energy consumption, and irritating noise. The highly efficient Taco 4900 Series separator, now with optional removable cover and switchable on/off magnet, clears the system of; micro-bubbles, magnetite, sand, dirt, and rust - saving money, energy, and component wear. 4900 Series' stainless steel PALL Ring baskets can be removed by one person. Unlike many competitive models, each 4900 unit is designed and constructed to the requirements of Section VIII of the ASME code as standard.

European PALL Ring technology Taco ingenuity

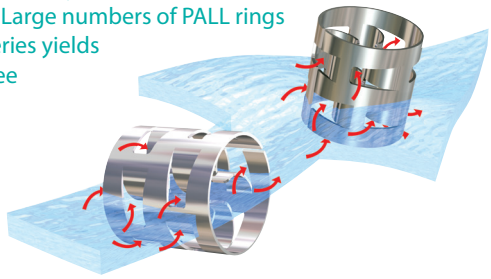
The 4900 Series' integral PALL ring technology has been proven in countless European installations. PALL rings are often applied in the processing industry to mix gases with, or separate gases from liquids. The use of PALL rings in hydronic air separation is so unique, it's patented. By applying PALL ring technology to air and dirt separation, the 4900 Series will:

- Remove microbubbles as small as 18 X 10^{-6}m (18 microns) from the system
- Remove air which has dissolved in the system's water
- Remove air from places where an air vent cannot be installed
- Remove and separate solid particles from the flow
- **Achieve a 2 PSI or less pressure drop at optimal flow rate***

High efficiency cleaning of air and dirt

While Pall Ring Technology in the HVAC industry may seem new by comparison to its application in the processing industry, The Taco 4900 has seen continued success since its introduction to HVAC over 20 Years ago. Air bubbles are separated by the PALL rings through a process known as coalescence, as dirt particles are actually caught and sifted to the bottom of the tank - where they can be removed through a blowdown valve. The 4900 Series provides higher efficiency, with reduced pressure drops, allowing a smaller pump may be used for maximum efficiency.

When water is brought into contact with a PALL RING, the stream is deflected in many directions. Microbubbles attach to the ring surface, by coalescence growing large enough to be separated. Large numbers of PALL rings in the 4900 Series yields virtually air-free system water.



Switchable On/Off Magnet

With the emergence of more complex, higher efficiency hydronic systems, the importance of magnetite removal from these systems is becoming more critical than ever. With high efficiency components such as ECM style circulators and condensing boilers for example, magnetite can damage the internal components and cause inefficient operation - with pre-mature failures leading to unnecessary costly repairs.

Taco's Patent Pending Switchable On/Off Magnet technology saves you from unnecessary costs associated with premature failures.

We are able to do this by combining the benefits of high power neodymium magnets for magnetite removal included our 4900 Series model with our internal PALL Ring technology.

The unique feature of being able to energize the magnet with the flip of a handle allows easy maintenance reducing the time and effort required to perform a blow down.

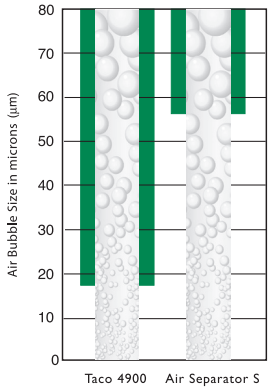
Series 4900-A models clean the system of free air and microbubbles; Series 4900-AD models remove both air AND dirt from the hydronic system. 304 stainless steel screens are provided on the inlet/outlet of each separator to isolate the separator's internals from the hydronic system. A flushing cock allows for the cleaning of the PALL rings. A full port ball valve is provided at the bottom of the unit to permit blowdown of accumulated particles. While construction of both models differs somewhat, the PALL ring operating principle is the same.

* *See pages 13 & 14 for optimal flow rates.*

Features & Benefits

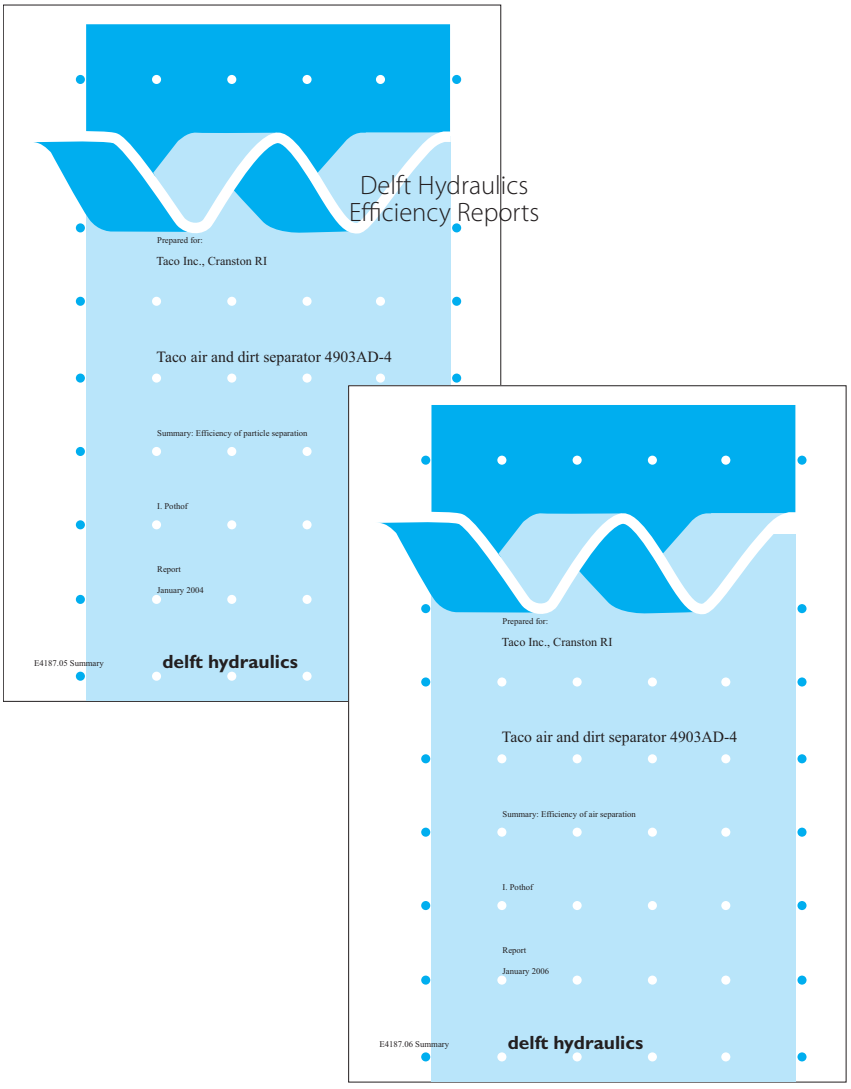
Removable Cover and Stainless Steel Pall Ring Basket Assembly

Superior air bubble removal



The choice is yours.

Delft Hydraulics has tested and certified the 4900 Series' superior performance for dirt and micro bubble removal. Choose from the 4900-A Series for air removal only, or the 4900-AD Series for air and dirt removal from any hydronic heating or chilled water system. Delft Hydraulics' 2004 and 2006 test reports for particle separation efficiency (shown below) provide information on the test procedures followed, show test results for particle separation, and offer conclusions and practical implications.



Applications

Air Control and Elimination

Water contains a certain amount of entrained air. If this air comes out of solution, it can increase corrosion rates of metals within the system. In addition, air can form pockets at the top of pipes and heating units. These air pockets can actually restrict or block flow in a hydronic piping system. This is referred to as "air locking".

The table below shows a solubility curve for air in water. Note that at a fixed pressure, increasing the temperature reduces the amount of air that can be dissolved. For example, at 60 PSIA and 40°F, the water can contain just over 10% air by volume. At 60 PSIA and 200°F, the percentage decreases to just over 4%.

Conversely, at fixed temperature reducing the pressure reduces the amount of air that can be dissolved. For example at 100°F and 80 PSIA the water can contain 8% air by volume. At 100°F and 20 PSIA the percentage decreases to 2%.

Solubility Curve

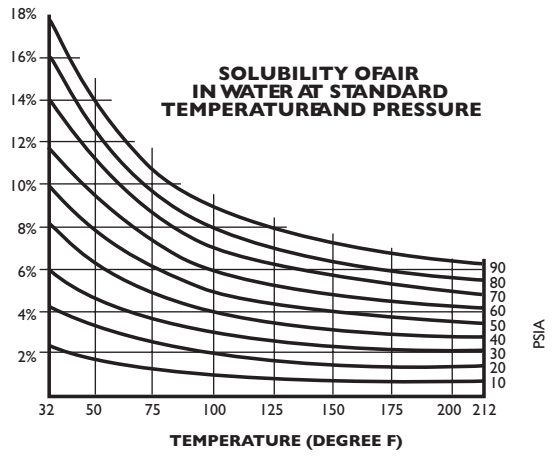


Figure 1

The conclusion is that air is least soluble in water at the highest temperature and lowest pressure. Air separators should therefore be located at these points.

The highest temperature in a system is typically on the discharge of boilers and inlet of chillers. Therefore, the general rule of thumb in hydronic systems is that ***"Air separators should be located downstream of boilers (Figure 2) and upstream of chillers (Figure 3)."***

The lowest pressure in a system is typically at the expansion tank, since this is the point of no pressure change and the location of the fill valve. Therefore, the general rule of thumb in hydronic systems is that ***"Air separators should be located at the expansion tank connection to the system."***

Boiler & Air Separator Location

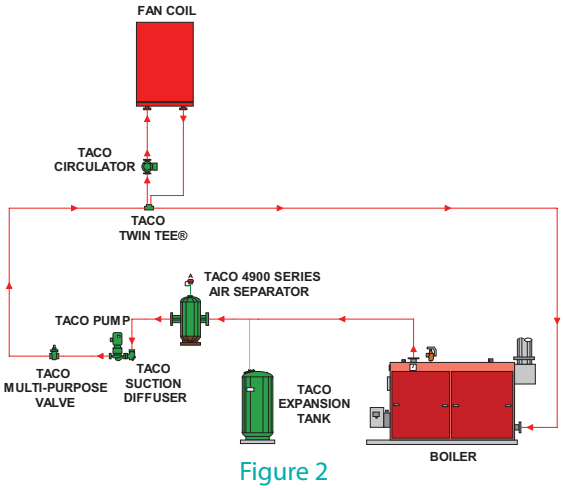


Figure 2

Chiller and Air Separator Location

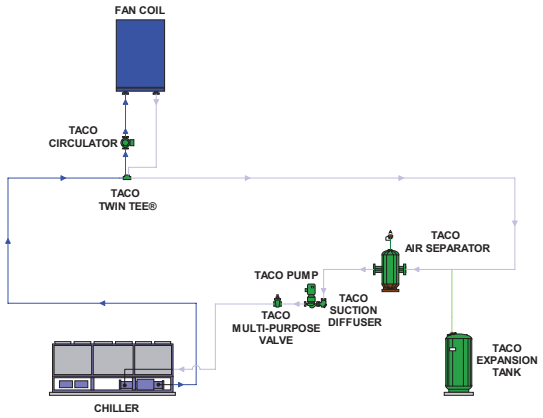


Figure 3

In addition, as water is heated from the fill temperature to the operating temperature, a great deal of air is released. Therefore, the simple act of bringing the water to operating temperature could lead to corrosion and air pockets, both of which should be avoided.

A method of removing this released air from the piping system is therefore required. Enter the air separator. An air separator is a device that removes the air from the circulating fluid.

There are several types of air separators in use today. Depending upon the type of expansion tank used in the system, the air separator is part of an Air Control System or an Air Elimination System.

Air Control Systems

If a conventional (non-bladder) style expansion tank is used, it is desirable to redirect the separated air to the space above the water level in the expansion tank (Figure 4). The dotted line from the air separator (scoop) to the plain steel tank shows the proper connection, with the air piped from the scoop to the expansion tank through a special tank fitting.

This fitting directs the air to the top portion of the tank, and discourages air from migrating back into the system (Figure 5), when the system cools on the "off" cycle. Note that since the air is "recycled" to provide a cushion in the expansion tank, this system is called an "Air Control" system.

Air Control System

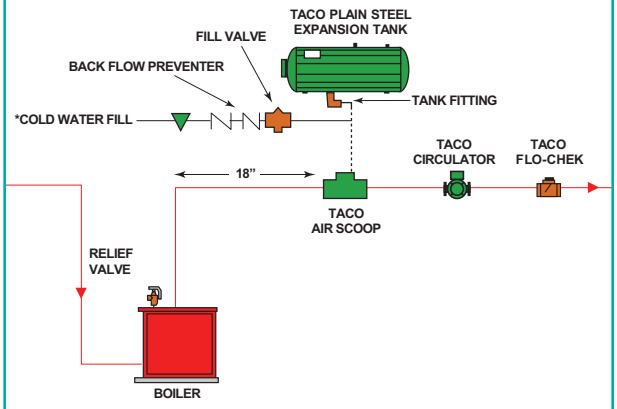


Figure 4

Note that the circulator is on the supply side of the boiler. This is the proper location, as it results in the highest pressure at the top of the system (if the circulator was on the return side of the boiler, the boiler pressure drop reduces the pressure at the top.) Having a higher pressure at the top keeps air in solution, and helps prevent problems and air binding.

Tank Fitting

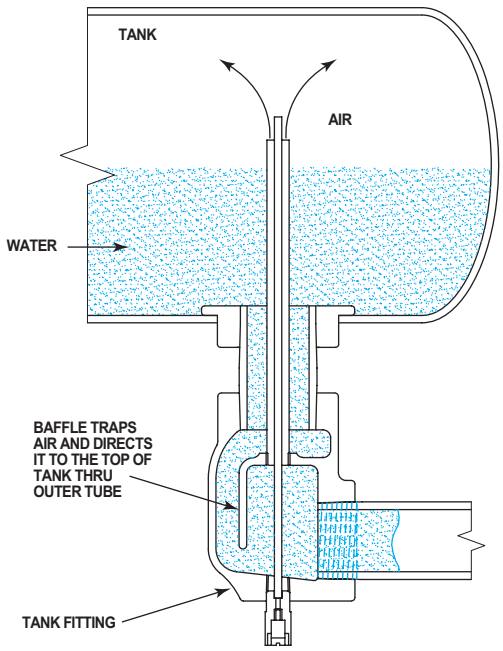


Figure 5

Applications

Air Elimination Systems

If a Captive Air or Bladder Style expansion tank is used, there is no reason to "save" the separated air (Figure 6). Therefore, if an air separator (scoop) is used in an air elimination system rather than an air control system, the separator is fitted with an automatic air vent (Taco's Hy-Vent® series), which discharges the separated air to the atmosphere. Note that since the air is eliminated through an air vent this system is called an "Air Elimination" system.

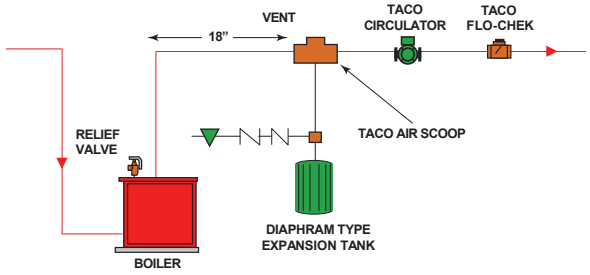


Figure 6

In-Line ASME Air Separators

Taco In-Line Air Separators are applied in commercial, institutional and industrial applications for the removal of free air in water or water/glycol systems. The In-Line designed air separator utilizes the advantages resulting from large body diameter in relation to the entering nozzle diameter.

The design of in-line air separators depends upon the lowering of the system fluid velocity within the separator, the change in direction of fluid flow within the unit, and buoyant force to direct air to the automatic air vent normally positioned at the top of the separator.

These air separators are designed, built and stamped to the requirements of ASME. The rated working pressure of these units is dependent upon the design pressure of the hydronic system into which they are being installed. Manufacturers offer these units in working pressures of 125, 150, 175, 250, 300 psi and higher if required.

Optional stainless steel strainers are specified to capture and allow the removal of larger debris. These screens are normally specified with 3/16 inch perforations and free area of not less than 5 times the open area of the nozzle to minimize pressure drop. Most manufacturers provide a blowdown connection at the bottom of the unit.

When In-Line Air Separators are installed in conventional Air Control systems with plain steel expansion tanks (Figure 7) care must be taken to insure that piping between the air separator and the plain steel expansion tank is pitched at least 3 degrees to facilitate the migration of captured air back into the expansion vessel. Systems with plain steel expansion tanks must not have automatic vents installed as this will lead to the loss of the expansion tank compression cushion.

Air Separator with Plain Steel Expansion Tank

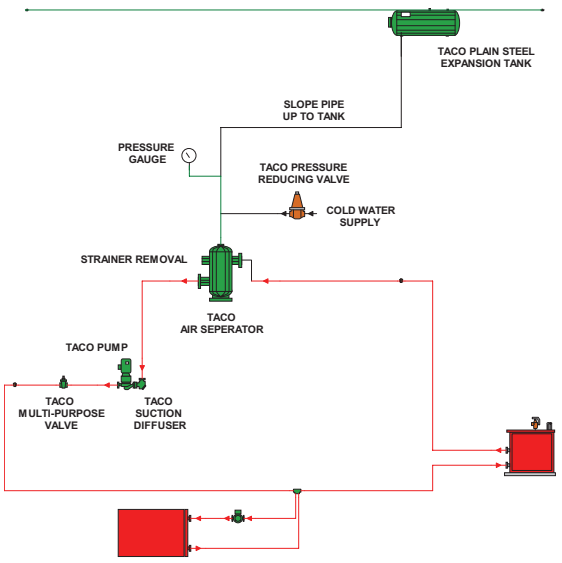


Figure 7

When In-Line Air Separators are installed in Air Elimination systems (Figure 8) with Captive Air bladder or diaphragm style expansion tanks, automatic air vents should be installed at the top of each separator. As Air Elimination systems have a permanent separation provided by the bladder or diaphragm between the initial tank pre-charge and the system fluid, no loss of pre-charge air will occur.
(See Taco Catalog# 400-1.1 for additional information.)

Air Separator with Captive Air Tank

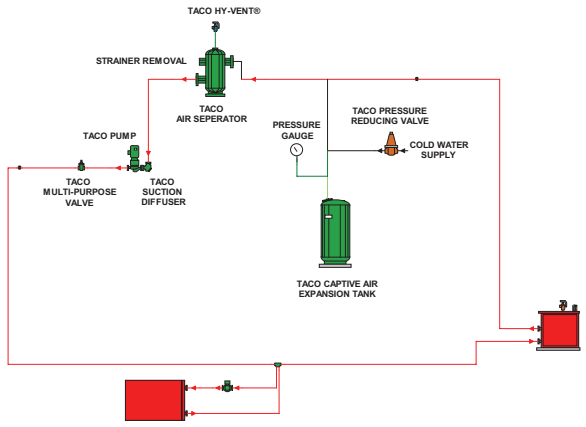


Figure 8

Applications

- **Larger systems**
- **Lower pressure drop**
- **Removal of larger particles**

Tangential ASME Air Separators

Taco Tangential Air Separators are applied in commercial, institutional and industrial applications for the removal of free air in water or water/glycol systems. The Tangential design air separators utilize the difference in density to separate free air from system fluid.

System fluid within a tangential air separator is forced to the wall of the separator due to centrifugal force. The less dense air then migrates to the center of the separator for venting at the top of the unit. Tangential air separators produce higher pressure drops than in-line or micro-bubble separators due to the vortex development within the unit. These units are designed, built and stamped to the requirements of ASME. Manufacturers offer tangential separators in working pressures of 125, 150, 175, 250, 300 psi and higher if required.

Optional stainless steel strainers are specified to capture and allow the removal of large debris. These screens are normally specified with 3/16 inch perforations and free area of not less than 5 times the open area of the nozzle

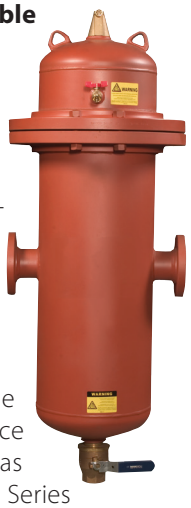
to minimize pressure drop. Most manufacturers provide a blowdown connection at the bottom of the unit.

When Tangential Air Separators are installed in conventional Air Control systems with plain steel expansion tanks (Figure 7) care must be taken to insure that piping between the air vent and the plain steel tank is pitched at least 3 degrees to facilitate the migration of captured air back into the expansion vessel. Systems with plain steel expansion tanks must not have automatic air vents installed as this will lead to the loss of the expansion tank compression cushion.

When Tangential Air Separators are installed in Air Elimination systems (Figure 10) with Captive Air bladder or diaphragm style expansion tanks, automatic air vents should be installed at the top of each air separator. As Air Elimination systems have a permanent separation provided by the bladder or diaphragm between the initial tank pre-charge and the system fluid, no loss of pre-charge will occur.
(See Taco Catalog# 400-2.8 for additional information.)

Applications
- **Larger systems**
- **Removal of larger particles**

4900 Series High Efficiency Micro-Bubble Air and Dirt ASME Separator



Taco 4900 Series High Efficiency Micro-Bubble Air and Dirt Separators are applied in commercial, institutional and industrial applications for the removal of free and entrained air. The 4900 Series utilize the coalescence of micro air bubbles around PALL rings to separate free air from a system fluid.

The 4900 Series incorporates the highest available coalescence surface area available on the market today. This enhanced surface area allows the removal of micro-bubbles as small as 18 microns in diameter. The 4900 Series separators remove up to 100% of the free air, 100% of the entrained air, and up to 99.6% of the dissolved air in the system fluid. This feature is especially beneficial in correcting problems in air entrained systems. An additional feature of the 4900 Series is the capability to remove dirt from hydronic systems. 4900 Series dirt separators are capable of removing dirt particles as small as 5 microns in diameter. This feature is especially beneficial in cleaning up dirty systems with clogged strainers, balance and control valves.

The 4900 Series has been designed in two velocity ranges, a standard product series suitable for line velocity to 4.9 ft/sec. and a high velocity series suitable for line velocities up 11 ft/sec. The performance of the 4900 product line has been independently tested and published. *(These test results are available through your local Taco representative.)*

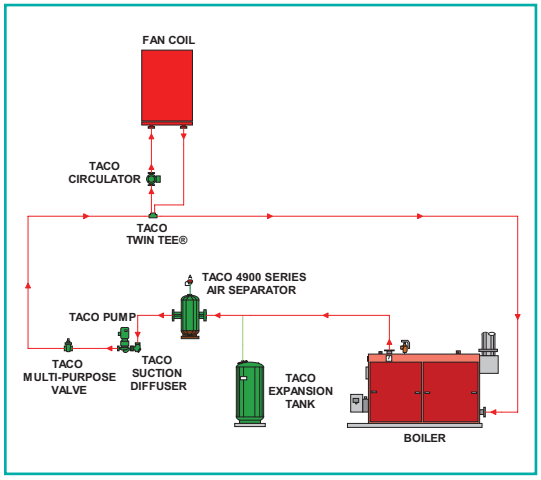
These units are designed, built and stamped to the requirements ASME Section VIII, Division 1. Manufacturers offer micro bubble air and dirt separators in working pressures of 125, 150, 175, 250, 300 psi.

When High Efficiency Micro Bubble Air and Dirt Separators are installed in Air Elimination systems (Figure 10) with Captive Air bladder or diaphragm style expansion tanks, automatic air vents are built into the top of each air separator. As Air Elimination systems have permanent separation provided by the bladder or diaphragm between the initial tank pre-charge and the system fluid, no loss of pre-charge air will occur.

Applications
- **Larger systems**
- **Higher efficiencies**
- **Higher velocities**
- **Removal of smaller air bubbles** e.g. removal of air in air entrained systems (removes micro air bubbles)
- **Removal of smaller particles** e.g. cleaning of dirty systems (removes particles and dirt)
- **Enhanced Removal of Ferrous Particles with Switchable On/Off Magnet Option**

New Selection Procedure

Non-Removable Head Cover



Boiler & Air Separator Location

Selection Examples

Example 1

Problem:

Select an air separator for a new installation. For maximum performance of the hydronic system the project requires removal of micro air bubbles from the system. The system will have better than average maintenance.

Conditions:

Flow rate = 700 gpm
Pipe size = 6"
Velocity = 8 fps
Maximum pressure drop - 3 ft.

1. Determine the type of air separator required. For removal of micro air bubbles this would require a Taco 4900 Series Air Separator with a model number 4906AH (See #2 below)

   For systems requiring dirt removal select the standard non-removable top head cover design with a blown down valve located at the bottom of the unit. Add letter designation "D" to indicate dirt removal. (e.g. 4906ADH).

   For systems requiring magnetite removal, select a 4900 model featuring the Switchable On/Off style magnet by using the "DM" designation. (e.g. 4906ADMH)

2. Determine the velocity range of the 4900 Series that is suitable for these conditions. The velocity range for the standard unit is 4.9 fps. The velocity range for the high velocity unit is 11 fps. Therefore, select the high velocity model number ending with an "H".

3. Determine the size of the 4900 for the specified maximum pressure drop. For a maximum pressure drop of 3 ft. the unit size required is a 6" (2.7 ft.). This is Model 4906ADH.

Existing Selection Procedure

Selection Examples

Example 2

Problem:

Select an air separator for an existing installation with air entrainment and dirt problems. The system has less than average maintenance or open systems.

Conditions:

Flow rate = 150 gpm
Pipe size = 4"
Velocity = 4 fps
Maximum pressure drop - 3 ft.

1. Determine the type of air separator required. For removal of micro air bubbles and dirt this would require a Taco 4900 Series Air and Dirt Separator with a model number ending with an "AD".

   For a system with less than average maintenance or open systems select the removable top head cover for easier cleaning. This is a model number ending with an "R".

2. Determine the velocity range of the 4900 Series that is suitable for these conditions. The velocity range for the standard unit is up to 4.9 fps. The velocity range for the high velocity unit is 11 fps. If the velocity is under 4.9 fps select the standard velocity unit. If the application velocity is above 4.9 fps and below 11 fps a high velocity unit would be required. This would require the addition of the letter "H" at the end of the model number.

   No additional letter designation is required for low velocity selections.

3. Determine the size of the 4900 for the specified maximum pressure drop. For a maximum pressure drop of 3 ft. the unit size required is a 4" (1.6 ft.). This is Model 4904ADR

Removable Top Head Cover
Taco recommends the use of a removable top head cover option on all open systems.

Typical Specifications

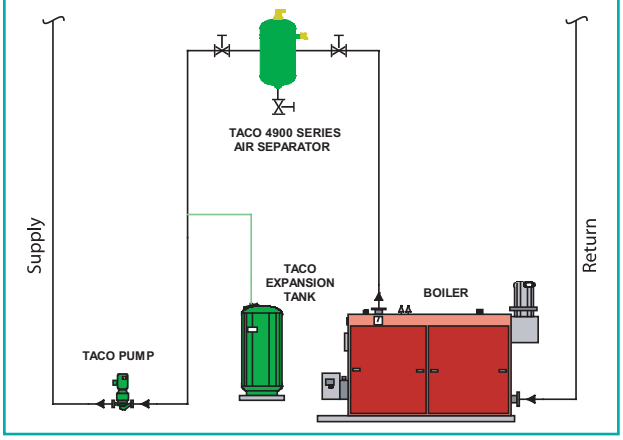
Furnish and install air and dirt removal device of the size and type shown on the plans. Air and dirt separation devices shall be Taco 4900 series or approved equal. Listing of a manufacturers name does not allow their construction standards to deviate from the requirements of this specification.

Air and dirt removal device shall be constructed of steel. It shall be designed, fabricated and stamped per ASME Section VIII Division 1 with a maximum working pressure of 125psi, 150, 175, 250, 300 optional at 240˚F. Units up to three 3-inch in size shall be provided with threaded connections as standard. Units 4-inch and larger shall be provided with flanged system connections as standard. **Pressure drops not to exceed 2 psi.**

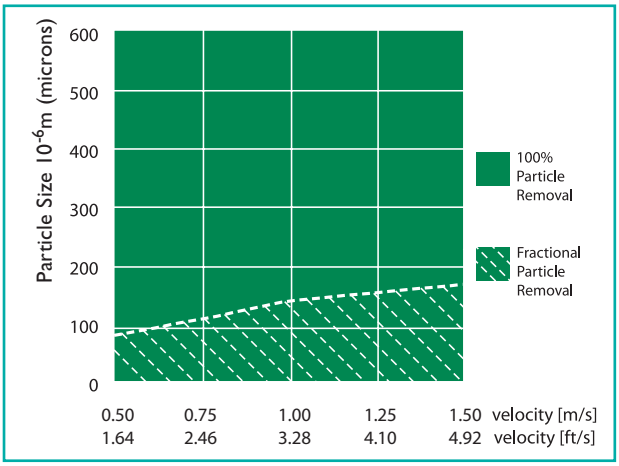
Each air and dirt removal device shall be equipped with a brass conical shaped air venting chamber designed to minimize system fluid from fouling the venting assembly. A brass flushing cock shall be located on the side of each separator to facilitate system fast-fill and removal of the floating impurities from the air system interface within the separator.
A blow down valve shall be provided by the unit manufacturer on the bottom of each unit to allow blow down and cleaning. On units 2-1/2" and smaller the valve and all of its fittings shall be 1". On units three 3" and larger the valve and all openings shall be 2".

The air and dirt removal device shall remove air down to 18 microns and shall remove dirt particles as small as 5 microns in diameter. The unit shall be 100% efficient at removing dirt down to 90 microns in 100 passes or less. The unit manufacturer shall provide the owner and design engineer third party independent test data certifying that their unit performs to the above standards. Suppliers not providing these independent performance test results will not be acceptable.

Typical installation



Dirt Removal Efficiency of Separator



The air and dirt separator shall employ the use of high surface area pall rings to achieve optimal separation of air and dirt with minimal pressure drop. The pall rings shall be made of stainless steel. Stainless steel will be the only acceptable material used for suppressing turbulence and increasing surface area for high efficiency air and dirt removal. Inferior materials of construction such as copper for the straining medium will not be acceptable. The minimum allowable surface area of the straining medium shall be ____ sq ft for the _____ model and _____sq ft for the _____model.

(OPTIONAL) Switchable On/Off Magnet shall be available to facilitate the removal of magnetite and other ferrous components.

(OPTIONAL) The unit shall be manufactured with a removable upper head to facilitate removal, inspection, and cleaning of the pall ring basket.

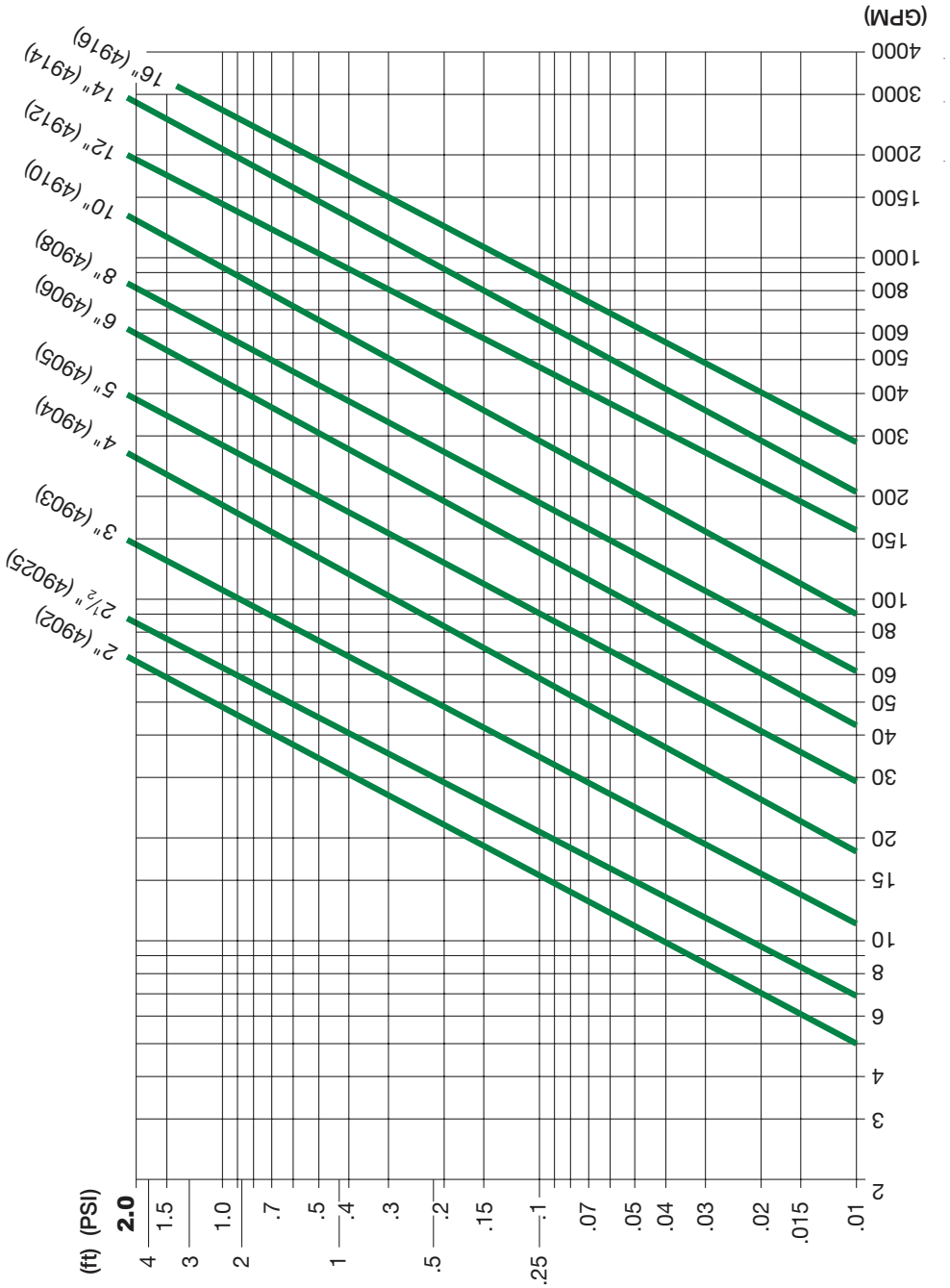
Standard Velocity Pressure Drops

Standard Velocity 4900 Series Pressure Drops

Consult Factory for Models 4918 through 4936

401-074 US-STD

EFFECTIVE: MAY 12, 2014



MODEL	GPM @ 4.9 Per./Sec.
4902	51
49025	73
4903	113
4904	204
4905	306
4906	469
4908	816
4910	1,291
4912	1,837
4914	2,106
4916	2,790
4918	3,673
4920	4,561
4922	5,300
4924	6,346
4926	7,647
4930	10,262
4936	14,905

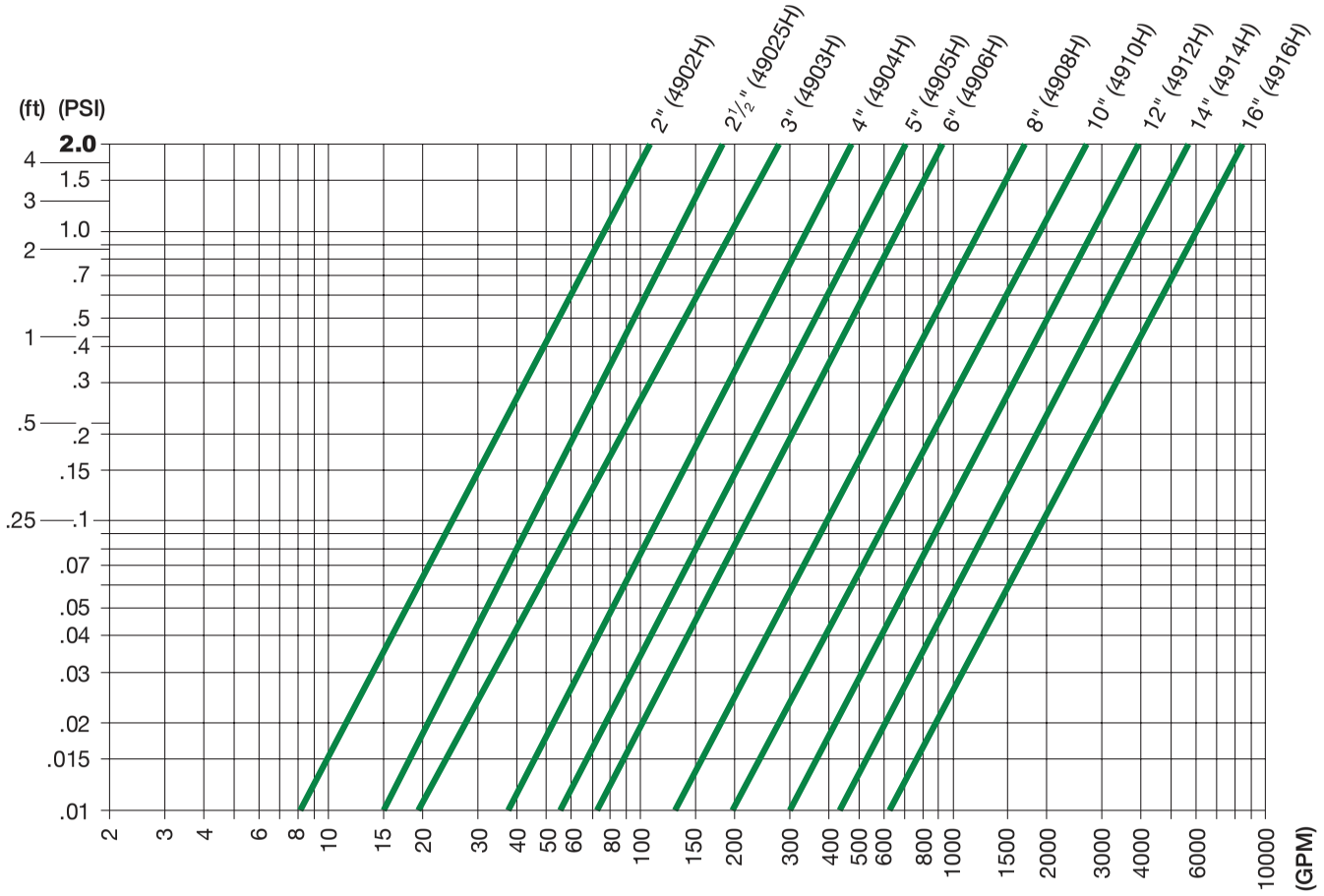
High Velocity 4900 Series Pressure Drops

Consult Factory for Models 4918 through 4936

401-074 US-HIGH

EFFECTIVE: MAY 12, 2014

MODEL	GPM @ 11 Ft./Sec.
4902H	115
49025H	165
4903H	253
4904H	438
4905H	686
4906H	1,015
4908H	1,730
4910H	2,718
4912H	4,124
4914H	4,727
4916H	6,262
4918H	8,246
4920H	10,238
4922H	11,874
4924H	14,245
4926H	17,167
4930H	23,037
4936H	33,457



4900 Series Air Separators, Non-Removable Cover

(Submittal 401-137)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902AT-125	10	16-1/2	12*	7-1/2	3-7/8	---	---	12.7	51	30
2	4902A-125	10	16-1/2	20	7-1/2	3-7/8	---		12.7	51	45
2-1/2	49025AT-125	10	16-1/2	12*	7-1/2	3-7/8	---	---	12.7	73	40
2-1/2	49025A-125	10	16-1/2	20	7-1/2	3-7/8	---		12.7	73	50
3	4903AT-125	12	22-1/8	14-1/2*	8-1/2	7-1/2	---	---	22	113	65
3	4903A-125	12	22-1/8	22	8-1/2	7-1/2	---		22	113	75
4	4904A-125	12	22-1/8	22	8-1/2	7-1/2	---	---	22	204	80
5	4905A-125	14	28-3/8	24	10-1/2	12	12	6-3/4	36.8	306	200
6	4906A-125	14	28-3/8	24	10-1/2	12	12	6-3/4	36.8	469	215
8	4908A-125	18	36--5/8	28	13-1/4	16	16	7	77.2	816	290
10	4910A-125	24	47-3/4	36	16-7/8	22	22	6-3/4	132.8	1291	565
12	4912A-125	24	54-3/4	36	17-7/8	28	28	6-3/4	147.2	1837	645
14	4914A-125	30	62	42	22	29-1/2	29-1/2	8	293.5	2106	910
16	4916A-125	30	67-3/4	42	22	35-1/4	35-1/4	8	330.3	2790	965

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

(1) For 150 psi models, replace - 125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA
* Dimension for 'T' option only - T option refers to FNPT connections

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F or higher available)

Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

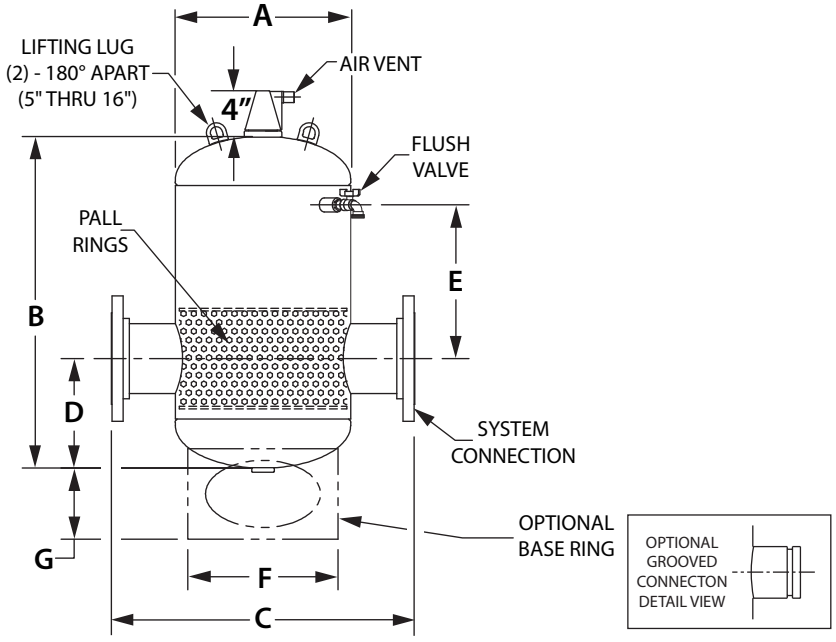
CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED

- Air Vent is suitable for water, max. 50% glycol
- Flush Valve (125 psi @ 240°F, Standard)

OPTIONS

- Higher Design Pressures and Temperatures than 150 psi @ 240°F are available
- Optional System Connection Sizes available
- Optional Connection Types
  - 'G' Grooved Pipe Connections up to 21⁄2"
- Optional Base Ring
  - Add Suffix 'R' (4905 thru 4916)



4900 Series Air Separators, Non-Removable Cover

(Submittal 401-091)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area* (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
18	4918A-150	36	72-1/2	48	26-7/8	9	30	7-11/16	571.4	3673	1450
20	4920A-150	42	84	54	29-7/8	10-1/2	35	7-5/8	839.4	4561	2130
22	4922A-150	48	91	60	33-3/8	12	40	8-7/16	1215.5	5300	2820
24	4924A-150	48	98	60	33-3/8	12	40	8-7/16	1295.7	6346	3045
26	4926A-150	54	106-1/2	67	37-1/4	13-1/2	44	9-1/2	1687.0	7647	4170
30	4930A-150	60	122-1/2	74	40-7/8	15	50	9-7/8	2336.5	10262	6190
36	4936A-150	72	146	90	50-5/8	15	64	12-3/4	3993.1	14905	10610

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

*COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 150 PSI @ 240°F

Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

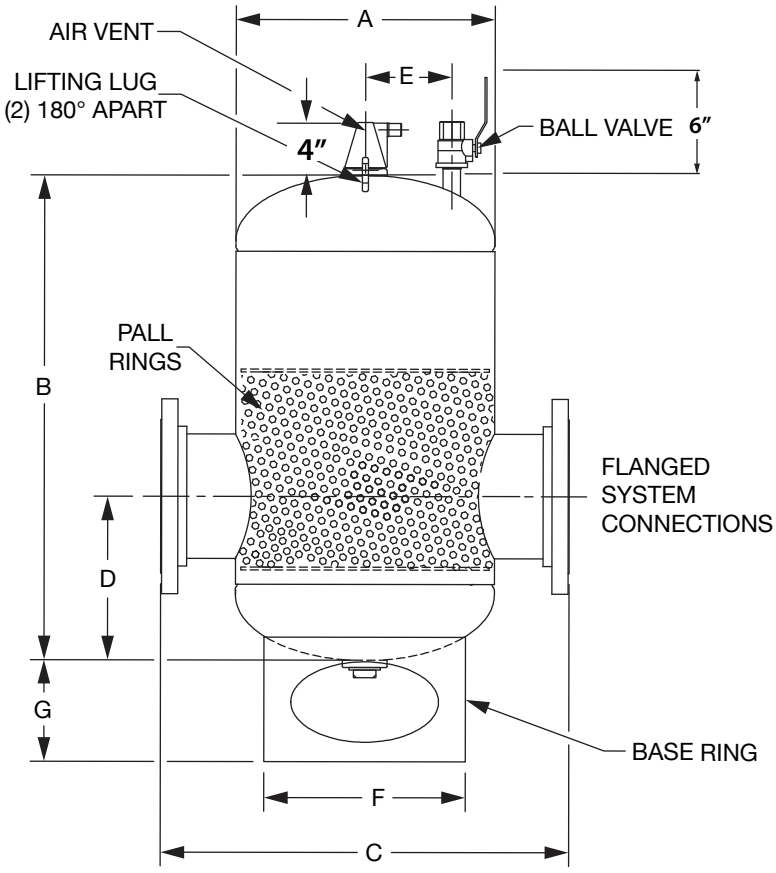
304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED
- Air Vent is suitable for water, max. 50% glycol
- Flush Valve

OPTIONS
- Higher design pressures and temperatures -Consult factory
- Base Ring Standard on (4918 thru 4936)



4900 Series High Velocity Air Separators, Non-Removable Cover

(Submittal 401-136)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902AHT-125	12	25	14*	10	9	---	---	40	115	85
2	4902AH-125	12	25	22	10	9	---	---	40	115	85
2-1/2	49025AHT-125	12	25	14*	10	9	---	---	40	165	90
2-1/2	49025AH-125	12	25	22	10	9	---	---	40	165	90
3	4903AHT-125	14	28-1/2	16-1/2*	10-7/8	12-3/4	---	---	53	253	100
3	4903AH-125	14	28-1/2	24	10-7/8	12-3/4	---	---	53	253	100
4	4904AH-125	14	28-1/2	24	10-7/8	12-3/4	---	---	53	458	110
5	4905AH-125	20	40	30	14-1/4	14	16	6-3/4	110	686	190
6	4906AH-125	20	40	30	14-1/4	14	16	6-3/4	110	1015	205
8	4908AH-125	24	47-1/2	34	16-7/8	21-3/4	20	7	191	1730	430
10	4910AH-125	30	59-1/2	42	20-1/2	28-1/2	24	8	305	2718	600
12	4912AH-125	30	59-1/2	42	20-1/2	28-1/2	24	8	305	4124	650
14	4914AH-125	36	72	48	24	32	30	8	545	4727	940
16	4916AH-125	36	72	48	24	32	30	8	545	6262	965

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

*Dimensions for "T" option only - T option refers to FNPT connections

(1) For 150 psi models, replace - 125 with -150

(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240˚F

Optional Design Pressure and Temperature: (150 PSI @240˚F or higher available)

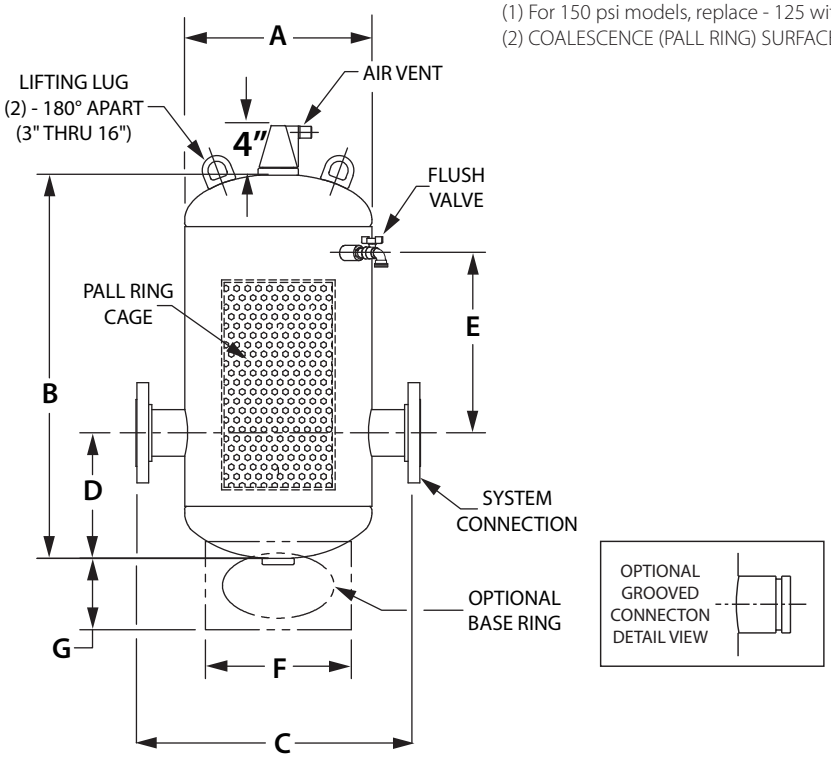
Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series High Velocity Air Separators, Non-Removable Cover

(Submittal 401-093)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area* (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
18	4918AH-150	42	84	57	24-13/16	10-1/2	35	7-11/16	796.9	8246	2160
20	4920AH-150	48	91	62	27-9/16	12	40	8-7/16	1062.3	10238	2715
22	4922AH-150	54	98	67	30-3/4	13-1/2	44	9-1/2	1434.1	11874	3890
24	4924AH-150	54	106	67	30-3/4	13-1/2	44	9-1/2	1593.4	14245	4230
26	4926AH-150	60	113	74-1/2	32-1/4	15	50	9-7/8	2124.5	17167	5990
30	4930AH-150	66	128	82	37-1/4	15	58	13-5/8	2761.9	23037	7670
36	4936AH-150	84	150	104	44-7/8	15	72	14	5045.8	33457	15110

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

*COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 150 PSI @ 240°F

Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

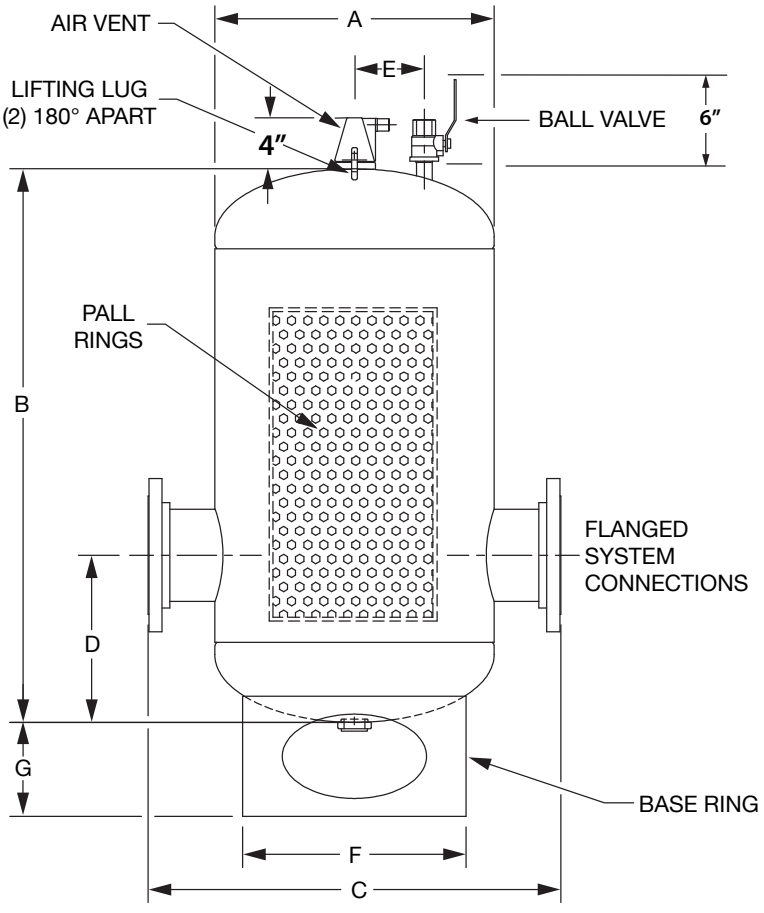
304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED
- Air Vent is suitable for water, max. 50% glycol
- Flush Valve

OPTIONS
- Higher design pressures and temperatures -Consult factory
- Base Ring Standard on (4918 thru 4936)



4900 Series Air/Dirt Separators, Non-Removable Cover

(Submittal 401-138)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADT-125	10	16-1/2	12*	7-1/2	3-7/8	---	---	12.7	51	30
2	4902AD-125	10	16-1/2	20	7-1/2	3-7/8	---		12.7	51	45
2-1/2	49025ADT-125	10	16-1/2	12*	7-1/2	3-7/8	---	---	12.7	73	40
2-1/2	49025AD-125	10	16-1/2	20	7-1/2	3-7/8	---		12.7	73	50
3	4903ADT-125	12	22-1/8	14-1/2*	11-1/2	7-1/2	---	---	22	113	75
3	4903AD-125	12	22-1/8	22	11-1/2	7-1/2	---		22	113	85
4	4904AD-125	12	22-1/8	22	11-1/2	7-1/2	---	---	22	204	90
5	4905AD-125	14	28-3/8	24	15-3/4	12	13-1/2	12-3/8	36.8	306	230
6	4906AD-125	14	28-3/8	24	15-3/4	12	13-1/2	12-3/8	36.8	469	245
8	4908AD-125	18	36--5/8	28	18-1/8	16	17-1/2	12-5/8	77.2	816	325
10	4910AD-125	24	47-3/4	36	25-3/8	22	20	12-7/8	132.8	1291	615
12	4912AD-125	24	54-3/4	36	26-3/8	28	20	12-7/8	147.2	1837	695
14	4914AD-125	30	62	42	33	29-1/2	24	13-3/4	293.5	2106	1000
16	4916AD-125	30	67-3/4	42	34	35-1/4	24	13-3/4	330.3	2790	1055

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

(1) For 150 psi models, replace - 125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA
* Dimension for 'T' option only - T option refers to FNPT connections

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240˚F

Optional Design Pressure and Temperature: (150 PSI @240˚F or higher available)

Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

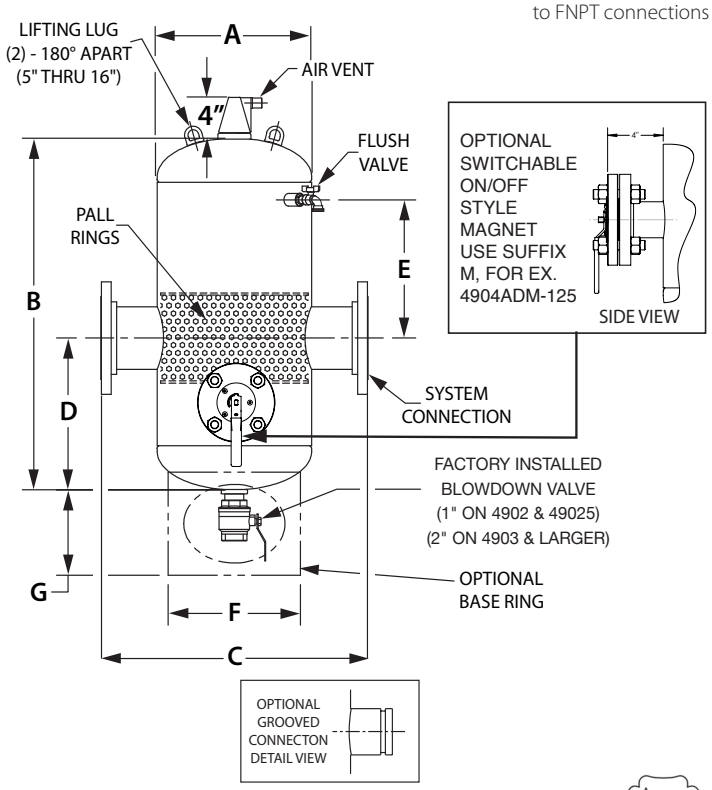
304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED
- Air Vent is suitable for water, max. 50% glycol
- Blowdown Valve
- Flush Valve (125 psi @ 240°F, Standard)

OPTIONS
- Switchable On/Off Style Neodymium Magnet
- Higher Design Pressures and Temperatures than 150 psi @ 240°F are available
- Optional System Connection Sizes available
- Optional Connection Types
  - 'G' Grooved Pipe Connections up to 2-½"
- Optional Base Ring
  - Add Suffix 'R' (4905 thru 4916)



4900 Series Air/Dirt Separators, Non-Removable Cover

(Submittal 401-092)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area* (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
18	4918AD-150	36	91	48	42-1/4	9	30	13-1/2	571.4	3673	1650
20	4920AD-150	42	100	54	45-3/4	10-1/2	38	12-3/4	839.4	4561	2410
22	4922AD-150	48	109	60	51-11/16	12	44	12-5/8	1215.5	5300	3190
24	4924AD-150	48	118	60	53-1/2	12	44	12-5/8	1295.7	6346	3360
26	4926AD-150	54	127	67	57-11/16	13-1/2	50	13-1/8	1687.0	7647	4620
30	4930AD-150	60	145	74	62-1/2	15	54	14	2336.5	10262	7050
36	4936AD-150	72	172	90	76-5/16	15	66	15-3/4	3993.1	14905	12030

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

*COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 150 PSI @ 240˚F

Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

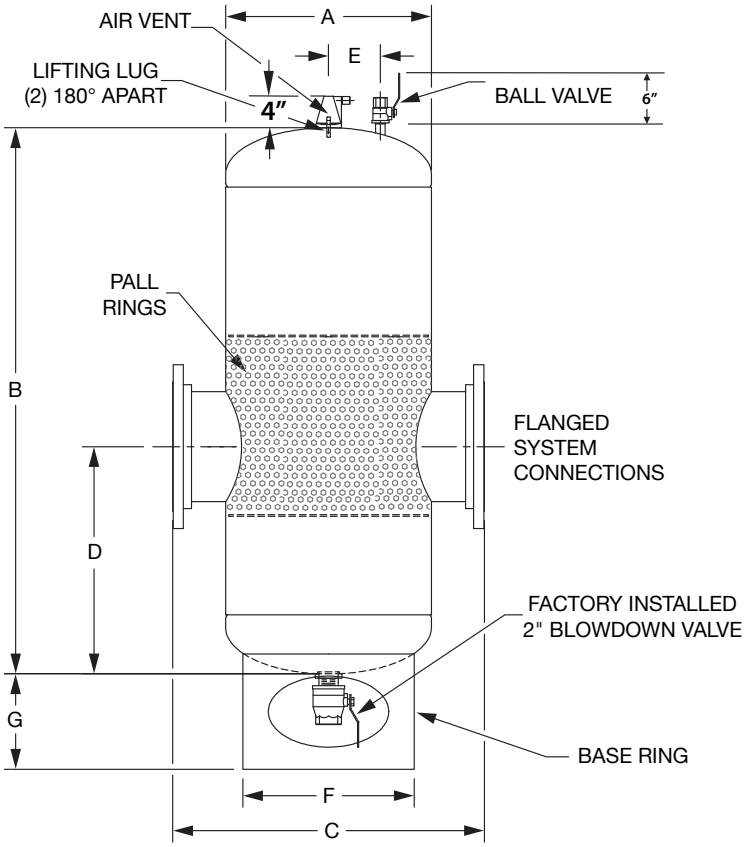
304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED
- Air Vent is suitable for water, max. 50% glycol
- Blowdown Valve
- Flush Valve

OPTIONS
- Switchable On/Off Style Neodymium Magnet -Consult factory
- Higher design pressures and temperatures -Consult factory
- Base Ring Standard on (4918 thru 4936)



4900 Series High Velocity Air/Dirt Separators, Non-Removable Cover

(Submittal 401-135)

Pipe Size	Model Number[1]	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area[2] (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADHT-125	12	32	14*	16	10	---	---	64	115	100
2	4902ADH-125	12	32	22	16	10	---	---	64	115	100
2-1/2	49025ADHT-125	12	32	14*	16	10	---	---	64	165	105
2-1/2	49025ADH-125	12	32	22	16	10	---	---	64	165	105
3	4903ADHT-125	14	40-1/4	16-1/2*	20-1/8	14-1/4	---	---	82	253	120
3	4903ADH-125	14	40-1/4	24	20-1/8	14-1/4	---	---	82	253	120
4	4904ADH-125	14	40-1/4	24	20-1/8	14-1/4	---	---	82	458	130
5	4905ADH-125	20	57-1/2	30	28-3/4	21	18	13	165	686	255
6	4906ADH-125	20	57-1/2	30	28-3/4	21	18	13	165	1015	270
8	4908ADH-125	24	69-1/4	34	34-5/8	25-3/4	20	13-1/8	290	1730	520
10	4910ADH-125	30	86	42	43	32-1/2	24	13-3/4	456	2718	735
12	4912ADH-125	30	86	42	43	32-1/2	24	13-3/4	456	4124	785
14	4914ADH-125	36	103	48	51-1/2	39-1/2	30	13-5/8	800	4727	1100
16	4916ADH-125	36	103	48	51-1/2	39-1/2	30	13-5/8	800	6262	1125

All dimensions shown are subject to change and should not be used for prepiping. Contact your local Taco representative should certified dimensional drawings be required.

*Dimensions for "T" option only - T option refers to FNPT connections
(1) For 150 psi models, replace - 125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F Option Available)

Optional Switchable On/Off Style Neodymium Magnet
- For models above 30" diameter
  - Consult factory

Particle removal down to 5 microns

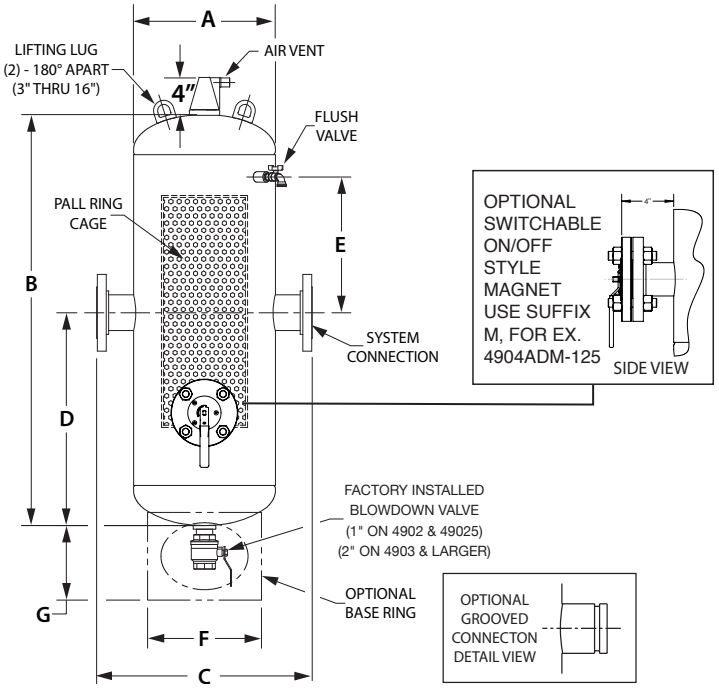
Construction:
Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should

any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series High Velocity Air/Dirt Separators, Non-Removable Cover

(Submittal 401-094)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area* (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
18	4918ADH-150	42	121	57	61-3/4	10-1/2	38	12-3/4	1109.5	8246	2930
20	4920ADH-150	48	132	62	67-9/16	12	44	12-5/8	1585.0	10238	3705
22	4922ADH-150	54	143	67	75-3/4	13-1/2	50	13-1/8	2113.4	11874	5350
24	4924ADH-150	54	148	67	72-3/4	13-1/2	50	13-1/8	2430.4	14245	5890
26	4926ADH-150	60	165	74-1/2	84-1/4	15	54	14	3275.7	17167	8430
30	4930ADH-150	66	186	82	95-1/4	15	60	14-13/16	4226.8	23037	10630
36	4936ADH-150	84	219	104	113-7/8	15	78	15-3/8	7925.2	33457	21460

All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

*COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 150 PSI @ 240˚F

Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

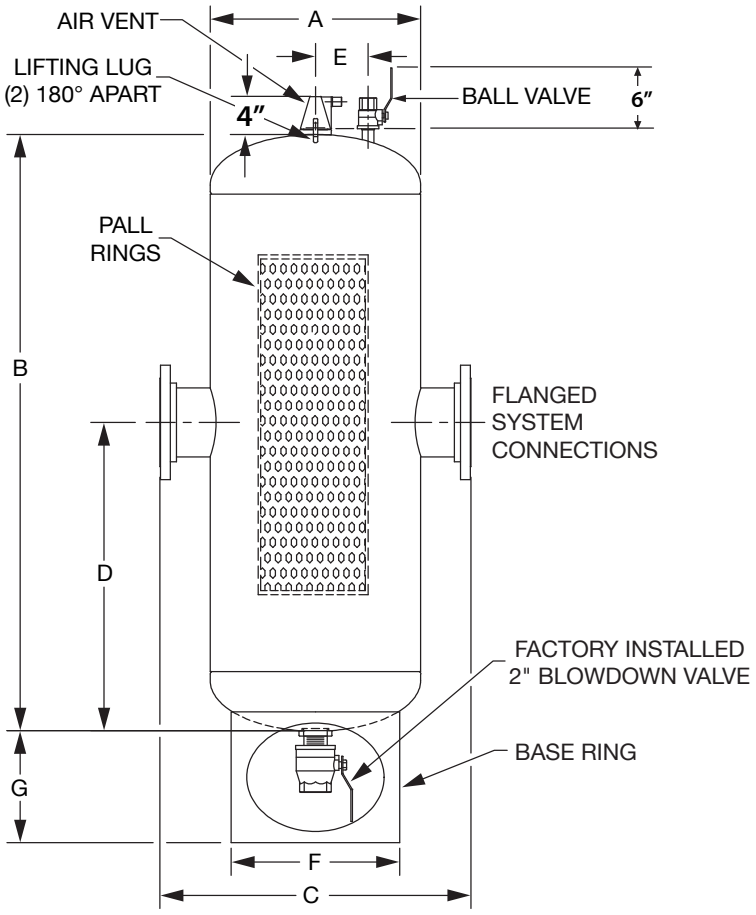
304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

FACTORY INSTALLED
- Air Vent is suitable for water, max. 50% glycol
- Blowdown Valve
- Flush Valve

OPTIONS
- Switchable On/Off Style Neodymium Magnet -Consult factory
- Higher design pressures and temperatures -Consult factory
- Base Ring Standard on (4918 thru 4936)



4900 Series Dirt Separators, Non-Removable Cover

(Submittal 401-109)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	Surface Area** (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902DT-125	10	16-1/2	12*	7-1/2	5-1/4	---	---	12.7	51	30
2	4902D-125	10	16-1/2	20	7-1/2	5-1/4	---	---	12.7	51	35
2-1/2	49025DT-125	10	16-1/2	12*	7-1/2	5-1/4	---	---	12.7	73	40
2-1/2	49025D-125	10	16-1/2	20	7-1/2	5-1/4	---	---	12.7	73	50
3	4903DT-125	12	21-7/8	14-1/2*	11-5/8	6	---	---	22	113	75
3	4903D-125	12	21-7/8	22	11-5/8	6	---	---	22	113	85
4	4904D-125	12	21-7/8	22	11-5/8	6	---	---	22	204	95
5	4905D-125	14	28-5/8	24	15-3/4	6	13-1/2	12-3/8	36.8	306	125
6	4906D-125	14	28-5/8	24	15-3/4	6	13-1/2	12-3/8	36.8	469	135
8	4908D-125	18	33-7/8	28	18-1/4	7-1/4	17-1/2	12-5/8	77.2	816	215
10	4910D-125	24	45-1/4	36	25-3/8	9	20	12-7/8	132.8	1291	360
12	4912D-125	24	47	36	26-3/8	9	20	12-7/8	147.2	1837	400

*Dimensions for "T" option only
All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

**COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per
ASME Section VIII, Div. 1

Registered with the National Board
of Pressure Vessel Manufacturers

Standard Design Pressure
and Temperature: 125 PSI @ 240˚F

Optional Design Pressure
and Temperature:
(150 PSI @240˚F Option Available)

Optional Switchable On/Off Style
Neodymium Magnet

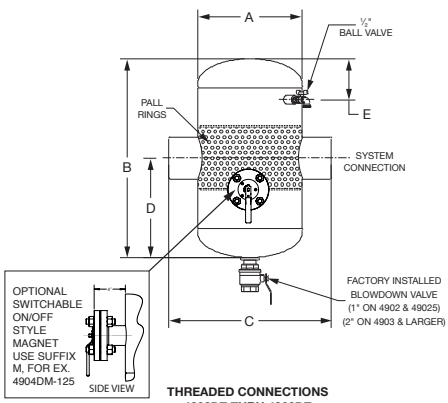
Particle removal down to 5 microns

Construction:
Carbon Steel with exterior
red oxide primer finish

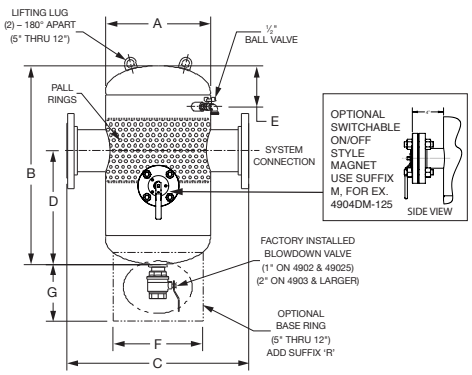
304 Stainless Steel
Coalescence Pall Rings

Taco 4900 units are designed to be
self-supporting in the piping system.
Factory review is necessary should
any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



THREADED CONNECTIONS
4902DT THRU 4903DT



FLANGED CONNECTIONS
4902D THRU 4912D

4900 Series Air Separators, Non-Removable Cover

(Submittal 401-200)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902AT-250	10	16-1/2	12	7-1/2	3-7/8	---	---	51	50
2	4902A-250	10	16-1/2	20	7-1/2	3-7/8	---	---	51	50
2-1/2	49025AT-250	10	16-1/2	12	7-1/2	3-7/8	---	---	73	60
2-1/2	49025A-250	10	16-1/2	20	7-1/2	3-7/8	---	---	73	60
3	4903AT-250	12	22-1/8	14-1/2	8-1/2	7-1/2	---	---	113	85
3	4903A-250	12	22-1/8	12	8-1/2	7-1/2	---	---	113	85
4	4904A-250	12	22-1/8	22	8-1/2	7-1/2	---	---	204	100
5	4905A-250	14	31	24	11-3/4	12	12	6-3/4	306	280
6	4906A-250	14	31	24	11-3/4	12	12	6-3/4	469	310
8	4908A-250	18	38-3/8	28	14-1/4	16	14	7	816	440
10	4910A-250	24	49	36	17-1/2	11	20	6-3/4	1291	820
12	4912A-250	24	56	36	18-1/2	28	20	6-3/4	1837	950
14	4914A-250	30	62-7/8	42	22-1/2	29-1/2	24	8	2106	1430
16	4916A-250	30	68-5/8	42	22-1/2	35-1/4	24	8	2790	1550

*Dimensions for "T" option only
All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

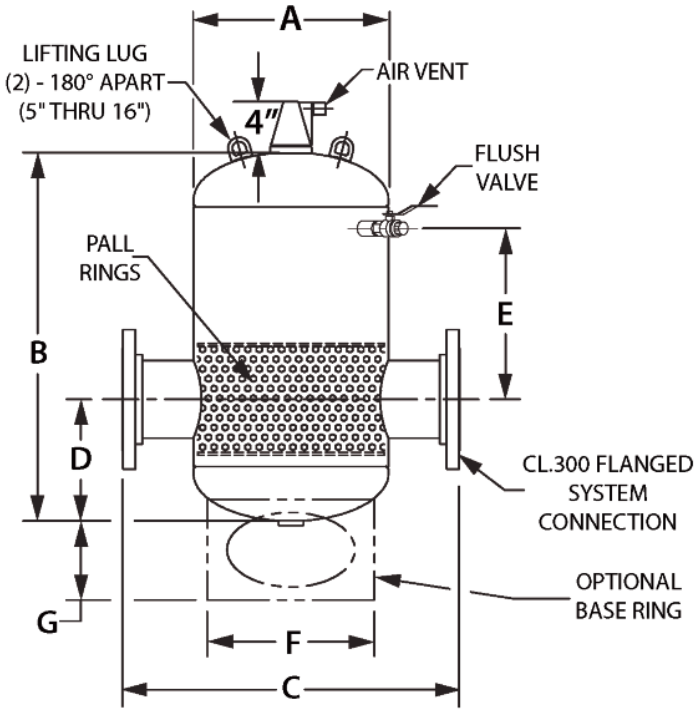
Standard Design Pressure and Temperature: 250 PSI @ 240°F

Construction:
Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Air/Dirt Separators, Non-Removable Cover

(Submittal 401-201)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADT-250	10	16-1/2	12	7-1/2	3-7/8	---	---	51	50
2	4902AD-250	10	16-1/2	20	7-1/2	3-7/8	---	---	51	50
2-1/2	49025ADT-250	10	16-1/2	12	7-1/2	3-7/8	---	---	73	60
2-1/2	49025AD-250	10	16-1/2	22	7-1/2	3-7/8	---	---	73	60
3	4903ADT-250	12	25-1/8	14-1/2	11-1/2	7-1/2	---	---	113	60
3	4903AD-250	12	25-1/8	24	11-1/2	7-1/2	---	---	113	95
4	4904AD-250	12	25-1/8	22	11-1/2	7-1/2	---	---	204	110
5	4905AD-250	14	36-1/4	24	15-3/4	12	13-1/2	12-3/8	306	280
6	4906AD-250	14	36-1/4	24	15-3/4	12	13-1/2	12-3/8	469	320
8	4908AD-250	18	43-3/8	28	18-1/4	16	17-1/2	12-5/8	816	350
10	4910AD-250	24	57-5/8	36	25-3/8	22	20	12-7/8	1291	480
12	4912AD-250	24	64-5/8	36	26-3/8	28	20	12-7/8	1837	880
14	4914AD-250	30	73-7/8	42	33	29-1/2	24	13-3/4	2106	1550
16	4916AD-250	30	80-5/8	42	34	35-1/4	24	13-3/4	2790	1670

T option refers to FNPT connections
All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Switchable On/Off Style Neodymium Magnet

Higher Pressures and Temperatures Available

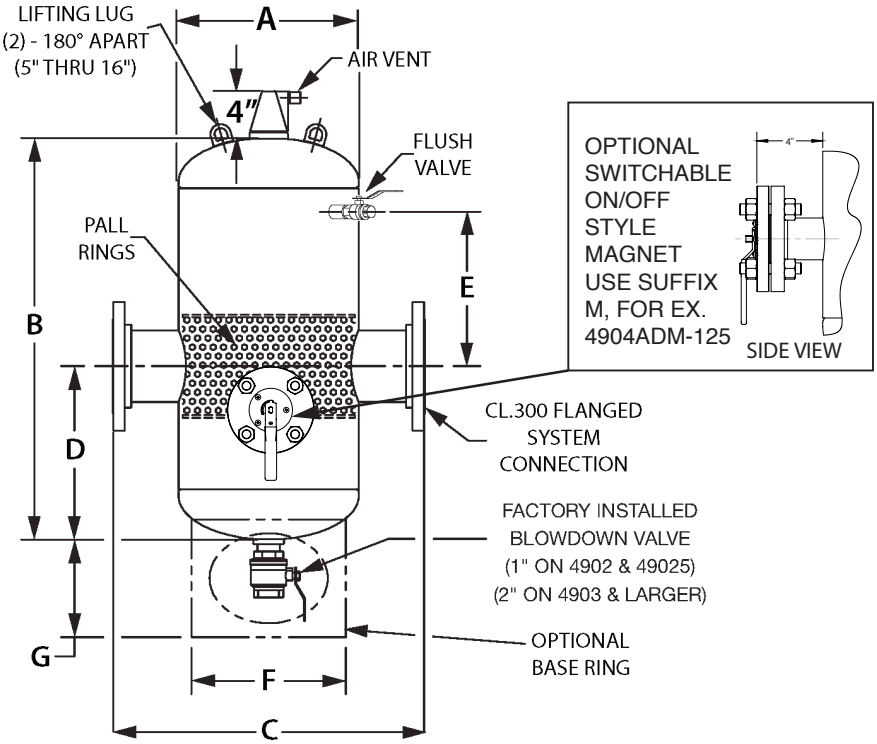
Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Hi-Velocity Air Separators, Non-Removable Cover

(Submittal 401-202)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902AHT-250	12	25	14	10	9	---	---	115	90
2	4902AH-250	12	25	22	10	9	---	---	115	90
2-1/2	49025AHT-250	12	25	14	10	9	---	---	165	100
2-1/2	49025AH-250	12	25	22	10	9	---	---	165	100
3	4903AHT-250	14	31-1/4	16-1/2	12-1/4	11-3/4	---	---	253	135
3	4903AH-250	14	31-1/4	24	12-1/4	11-3/4	---	---	253	135
4	4904AH-250	14	31-1/4	24	12-1/4	11-3/4	---	---	458	160
5	4905AH-250	20	42	30	15-1/4	18	16	6-3/4	686	280
6	4906AH-250	20	42	30	15-1/4	18	16	6-3/4	1015	320
8	4908AH-250	24	48-7/8	34	17-1/2	21-3/4	20	7	1730	640
10	4910AH-250	30	60-3/8	42	21	28-1/2	24	8	2718	920
12	4912AH-250	30	60-3/8	42	21	28-1/2	24	8	4124	1015
14	4914AH-250	36	73	48	24-7/8	36	30	8	4727	1470
16	4916AH-250	36	73	48	24-7/8	36	30	8	6262	1550

T option refers to FNPT connections
All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

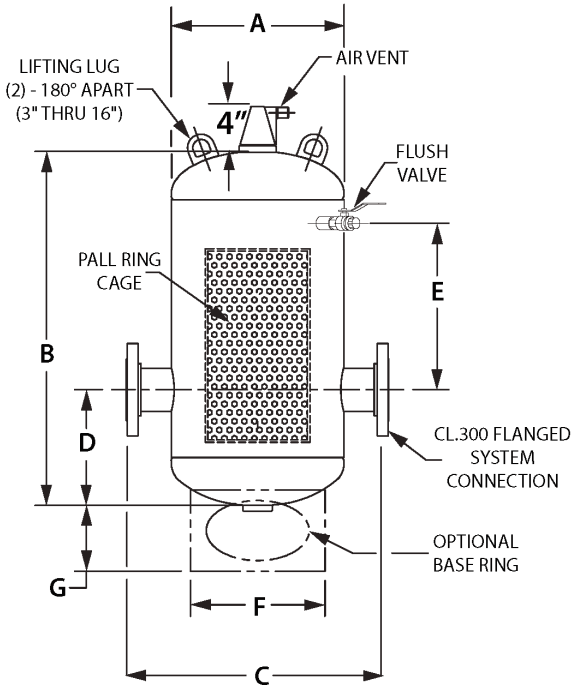
Standard Design Pressure and Temperature: 250 PSI @ 240˚F

Construction:
Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Hi-Velocity Air/Dirt Separators, Non-Removable Cover

(Submittal 401-203)

Pipe Size	Model Number	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADHT-250	12	32	14	16	10	---	---	115	105
2	4902ADH-250	12	32	22	16	10	---	---	115	105
2-1/2	49025ADHT-250	12	32	14	16	10	---	---	165	115
2-1/2	49025ADH-250	12	32	22	16	10	---	---	165	115
3	4903ADHT-250	14	43	16-1/2	21-1/2	14-1/4	---	---	253	160
3	4903ADH-250	14	43	24	21-1/2	14-1/4	---	---	253	160
4	4904ADH-250	14	43	24	21-1/2	14-1/4	---	---	458	185
5	4905ADH-250	20	59-1/2	30	29-3/4	21	18	13	686	360
6	4906ADH-250	20	59-1/2	30	29-3/4	21	18	13	1015	390
8	4908ADH-250	24	70-5/8	34	35-1/4	25-3/4	20	13-1/8	1730	740
10	4910ADH-250	30	86-7/8	42	43-1/2	32-1/2	24	13-3/4	2718	1100
12	4912ADH-250	30	86-7/8	42	43-1/2	32-1/2	24	13-3/4	4124	1200
14	4914ADH-250	36	104-1/4	48	51-1/8	39-1/2	30	13-5/8	4727	1690
16	4916ADH-250	36	104-1/4	48	51-1/8	39-1/2	30	13-5/8	6262	1760

T option refers to FNPT connections
All dimensions shown are subject to change and should not be used for prepiping.
Contact your local Taco representative should certified dimensional drawings be required.

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 250 PSI @ 240˚F

Optional Switchable On/Off Style Neodymium Magnet
-For Models above 30" diameter - Consult Factory

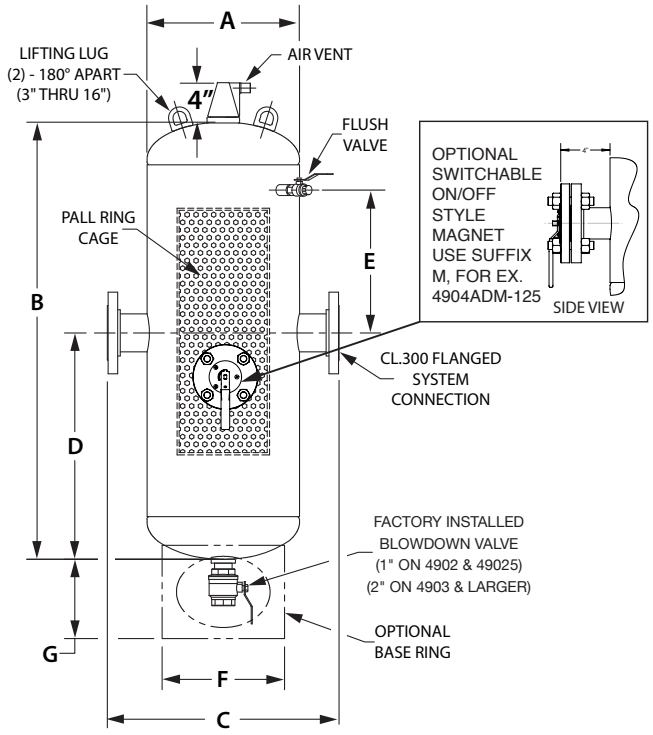
Particle removal down to 5 microns

Construction:
Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Removable Cover, Air Separators

(Submittal 401-175)

Pipe Size	Model Number [1]	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	H (Inch)	K (Inch)	Surface Area [2] (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ATR-125	10	20	12*	7-1/2	5-1/4	---	---	8	11	13.3	51	85
2	4902AR-125	10	20	20	7-1/2	5-1/4	---	---	8	11	13.3	51	85
2-1/2	49025AR-125	10	20	12*	7-1/2	5-1/4	---	---	8	11	13.3	73	90
2-1/2	49025ATR-125	10	20	20	7-1/2	5-1/4	---	---	8	11	13.3	73	90
3	4903AR-125	12	23	14-1/2*	8-5/8	6	---	---	9	12	22.5	113	125
3	4903ATR-125	12	23	22	8-5/8	6	---	---	9	12	22.5	113	125
4	4904AR-125	12	23	22	8-5/8	6	---	---	9	12	22.5	204	130
5	4905AR-125	14	29-1/2	24	10-1/2	6	12	6-3/4	10	17	29.6	306	380
6	4906AR-125	14	29-1/2	24	10-1/2	6	12	6-3/4	10	17	29.6	469	385
8	4908AR-125	18	36-5/8	28	13-1/4	7-1/4	14	7	12	21	63.9	816	550
10	49010AR-125	24	47-3/4	36	16-7/8	8-7/8	20	6-3/4	15	28	109.7	1291	1000
12	4912AR-125	24	54-3/4	36	17-7/8	8-7/8	20	6-3/4	15	35	140.4	1837	1030
14	4914AR-125	30	63	42	22	10-1/2	24	8	18	38	221.0	2106	1300
16	4916AR-125	30	68-3/4	42	22	10-1/2	24	8	18	44	258.8	2790	1350

*Dimensions for "T" option only
(1) FOR 150 PSI MODEL NUMBERS, REPLACE -125 WITH -150
(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F Option Available)

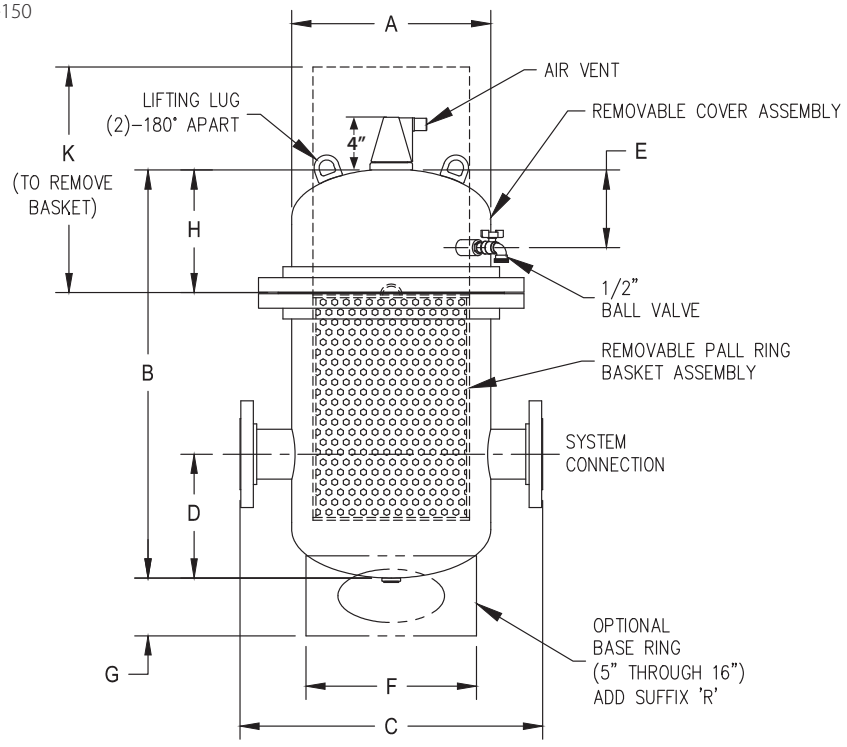
Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Removable Cover, Air/Dirt Separators

(Submittal 401-176)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	H (Inch)	K (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 4.9 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADTR-125	10	20	12*	7-1/12	5-1/4	---	---	8	11	13.3	51	85
2	4902ADR-125	10	20	20	7-1/12	5-1/4	---	---	8	11	13.3	51	85
2-1/2	49025ADTR-125	10	20	12*	7-1/12	5-1/4	---	---	8	11	13.3	73	90
2-1/2	49025ADR-125	10	20	20	7-1/12	5-1/4	---	---	8	11	13.3	73	90
3	4903ADTR-125	12	26	14-1/2*	11-5/8	6	---	---	9	14	27.7	113	135
3	4903ADR-125	12	26	22	11-5/8	6	---	---	9	14	27.7	113	135
4	4904ADR-125	12	26	22	11-5/8	6	---	---	9	14	27.7	204	140
5	4905ADR-125	14	34-1/2	24	15-3/4	6	---	---	10	21	38.0	306	430
6	4906ADR-125	14	34-1/2	24	15-3/4	6	---	---	10	21	38.0	469	440
8	4908ADR-125	18	41-1/2	28	18-1/8	7-1/4	17-1/2	12-5/8	12	25	78.3	816	630
10	49010ADR-125	24	56-1/4	36	25-3/8	8-7/8	20	12-7/8	15	35	140.4	1291	1155
12	4912ADR-125	24	63-1/4	36	26-3/8	8-7/8	20	12-7/8	15	39	157.5	1837	1180
14	4914ADR-125	30	74	42	33	10-1/2	24	13-3/4	18	44	258.8	2106	1550
16	4916ADR-125	30	80-3/4	42	34	10-1/2	24	13-3/4	18	51	303.8	2790	1580

*Dimensions for "T" option only - T option refers to FNPT connections
(1) FOR 150 PSI MODEL NUMBERS, REPLACE -125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F or higher available)

Optional Switchable On/Off Style Neodymium Magnet

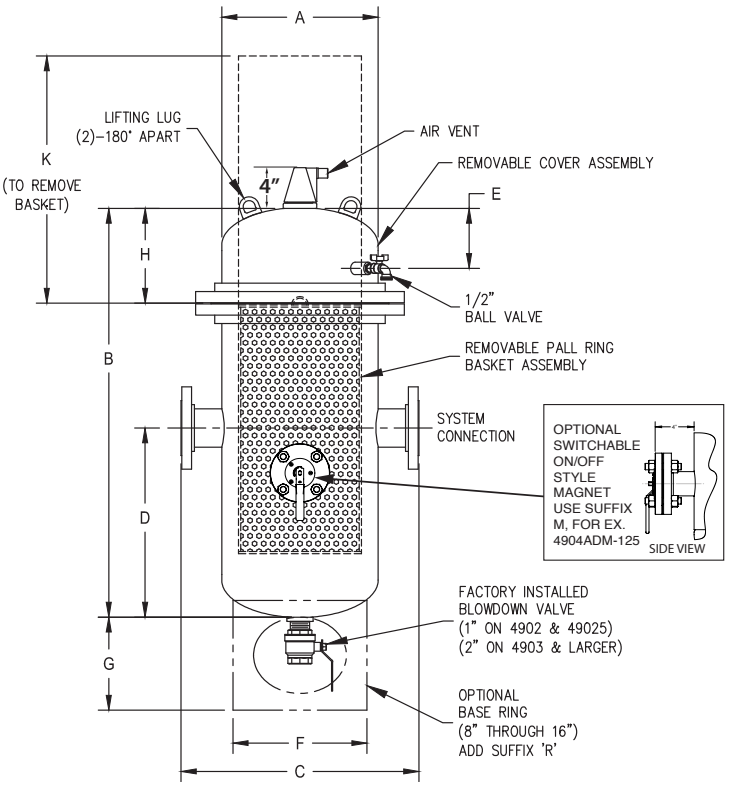
Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Removable Cover, High Velocity Air Separators

(Submittal 401-177)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	H (Inch)	K (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902AHTR-125	12	25	14*	10	6	---	---	9	14	18.5	115	135
2	4902AHR-125	12	25	22	10	6	---	---	9	14	18.5	115	135
2-1/2	49025AHTR-125	12	25	14*	10	6	---	---	9	14	18.5	165	140
2-1/2	49025AHR-125	12	25	22	10	6	---	---	9	14	18.5	165	140
3	4903AHTR-125	14	28-1/2	16-1/2*	11	6	12	6-3/4	10	16	32.3	253	280
3	4903AHR-125	14	28-1/2	24	11	6	12	6-3/4	10	16	32.3	253	280
4	4904AHR-125	14	28-1/2	24	11	6	12	6-3/4	10	16	32.3	458	290
5	4905AHR-125	20	40	30	14/1/4	7-1/4	16	6-3/4	12	23	71.1	686	520
6	4906AHR-125	20	40	30	14/1/4	8-7/8	16	6-3/4	15	23	71.1	1015	535
8	4908AHR-125	24	47-1/2	34	16-7/8	8-7/8	20	6-3/4	15	27	111.5	1730	870
10	49010AHR-125	30	60-1/2	42	20-1/2	10-1/2	24	8	18	35	140.4	2718	1000
12	4912AHR-125	30	60-1/2	42	20-1/2	10-1/2	24	8	18	35	140.4	4124	1050
14	4914AHR-125	36	72	48	24	12	30	7-7/8	20	44	258.8	4727	1500
16	4916AHR-125	36	72	48	24	12	30	7-7/8	20	44	258.8	6262	1530

*Dimensions for "T" option only
(1) FOR 150 PSI MODEL NUMBERS, REPLACE -125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F Option Available)

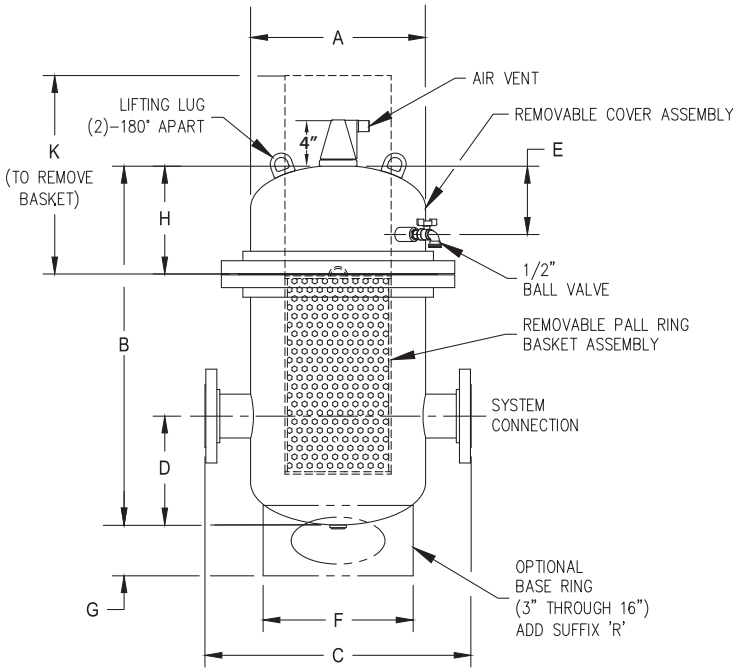
Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.



4900 Series Removable Cover, High Velocity Air/Dirt Separators

(Submittal 401-178)

Pipe Size	Model Number (1)	A Dia. (Inch)	B Max. (Inch)	C (Inch)	D (Inch)	E (Inch)	F Dia. (Inch)	G (Inch)	H (Inch)	K (Inch)	Surface Area (2) (Sq.Ft)	GPM @ 11 Ft./Sec.	Approx. Wt. (LBS.)
2	4902ADHTR-125	12	32	14*	16-1/8	6	---	---	9	18	25.4	115	150
2	4902ADHR-125	12	32	22	16-1/8	6	---	---	9	18	25.4	115	150
2-1/2	49025ADHTR-125	12	32	14*	16-1/8	6	---	---	9	18	25.4	165	155
2-1/2	49025ADHR-125	12	32	22	16-1/8	6	---	---	9	18	25.4	165	155
3	4903ADHTR-125	14	40-1/4	16-1/2*	20-1/4	6	---	---	10	25	54.8	253	300
3	4903ADHR-125	14	40-1/4	24	20-1/4	6	---	---	10	25	54.8	253	300
4	4904ADHR-125	14	40-1/4	24	20-1/4	6	---	---	10	25	54.8	458	310
5	4905ADHR-125	20	57-1/2	30	28-3/4	7-1/4	18	13	12	36	117.5	686	585
6	4906ADHR-125	20	57-1/2	30	28-3/4	8-7/8	18	13	15	36	117.5	1015	600
8	4908ADHR-125	24	69-1/4	34	34-5/8	8-7/8	20	12-7/8	15	45	195.4	1730	960
10	49010ADHR-125	30	87	42	43	10-1/2	24	13-3/4	18	57	236.6	2718	1130
12	4912ADHR-125	30	87	42	43	10-1/2	24	13-3/4	18	57	236.6	4124	1180
14	4914ADHR-125	36	103	48	51-1/2	12	30	13-3/4	20	69	416.5	4727	1660
16	4916ADHR-125	36	103	48	51-1/2	12	30	13-3/4	20	69	416.5	6262	1690

*Dimensions for "T" option only - T option refers to FNPT con

(1) FOR 150 PSI MODEL NUMBERS, REPLACE -125 with -150
(2) COALESCENCE (PALL RING) SURFACE AREA

Designed and constructed per ASME Section VIII, Div. 1

Registered with the National Board of Pressure Vessel Manufacturers

Standard Design Pressure and Temperature: 125 PSI @ 240°F

Optional Design Pressure and Temperature: (150 PSI @240°F or higher available)

Optional Switchable On/Off Style Neodymium Magnet
-For Models above 30" diameter - Consult Factory

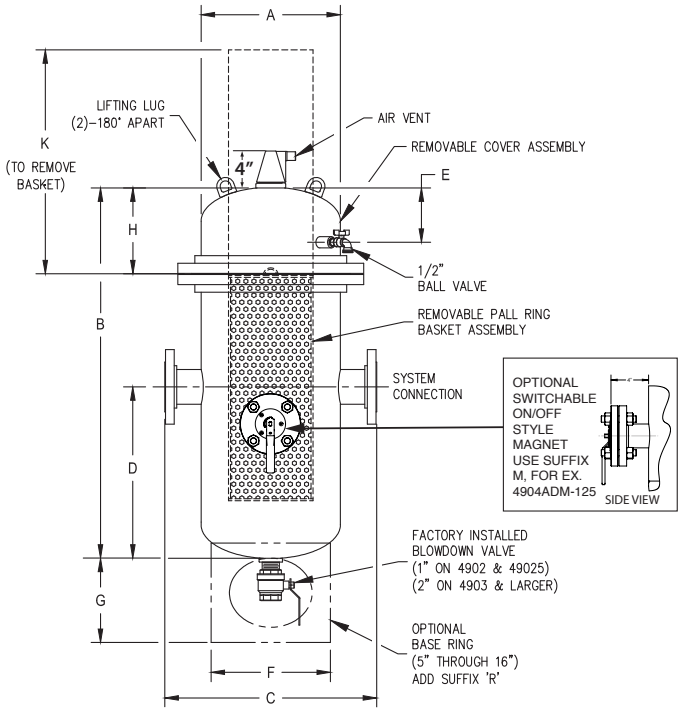
Particle removal down to 5 microns

Construction: Carbon Steel with exterior red oxide primer finish

304 Stainless Steel Coalescence Pall Rings

Taco 4900 units are designed to be self-supporting in the piping system. Factory review is necessary should any piping loads be present.

CAUTION: LIFTING LUGS FOR RIGGING AND LIFTING USE ONLY, NOT FOR ANCHORING OR HANGING.

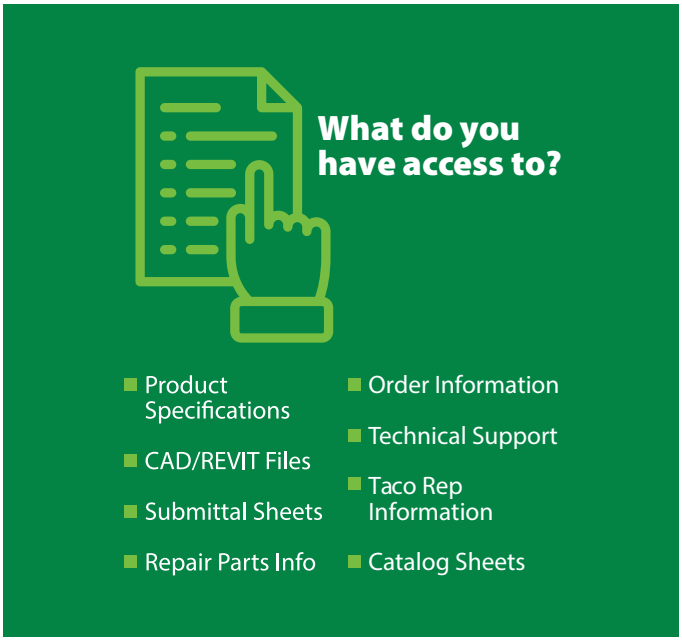


eLink® Taco Connectivity

Taco Tags use the power of NFC technology to provide users withall the relevant documents for a specific product, right on their phone. Your digital document library will always be accessible with the most up to date documentation and product information for that specific piece of equipment.

Utilizing the power of Taco Tags to provide you with all of your documentation needs, Taco is ensuring our user base is informed to take control of their equipment.

eLink provides easy access to product specs, technical documentation, instruction manuals and much more. Stay tuned as we continue to grow the eLink offerings on Taco commercial equipment.



A Taco Family Company

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