

SINCE 1908
wessels
company

REFERENCE CATALOG

FORM: LPC-2017

2017

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TERMS AND CONDITIONS

- MINIMUM ORDER:** \$ 50 net shipped to one location.
- PRICES:** Prices and terms are subject to change without notice.
Expedite fees may be applicable – Consult factory
- TAXES:** Applicable taxes apply separately.
- FREIGHT TERMS:** All orders are F.O.B. Factory.
- PAYMENT TERMS:** Terms are Net 30 Days to pre-approved accounts. New accounts must be pre-paid or by credit card until credit is approved. Any accounts over 45 days past due will be placed on credit hold until account is current.
- CREDIT APPROVAL:** Purchases are subject to credit investigation and approval.
- LIMITED WARRANTY:** Wessels Co. warrants that its products are of the kind and quality quoted and warrants these products to be free of defective material and/or workmanship only. This warranty is not applicable to operational failures, gasket leaks or malfunctions caused by improper application, installation and/or maintenance. Warranty not applicable if electrolysis condition or abnormal water condition exists. Anode inspection of glass lined storage tanks is required every 6 months. Wessels Co. requires paid receipts to show maintenance of anodes on glass lined tank claims.
- Any claim for adjustment under this Limited Warranty must be made within the Warranty period (see below). Wessels Co. shall replace or repair at its option, all parts which upon examination by Wessels Co. prove to be defective material and/or workmanship within the above Limited Warranty. If required by Wessels Co., parts that are claimed defective must be promptly delivered to the Wessels Co. manufacturing facility, transportation charges prepaid. **Wessels Co. will not however, accept any claims for labor costs incurred by the user in removing or reinstalling a product and/or part thereof.** This warranty does not apply if the defect is due to failure to use the product for its intended purpose, the result of an accident, abuse, misuse or unauthorized alteration, or because the product was not installed and maintained in accordance with standard plumbing practices. However, any and all costs required to ship, disassemble, remove, reassemble, reinstall a bladder and/or tank, shall not be borne by the Wessels Co. and **IS NOT COVERED** under this warranty. **IN NO EVENT SHALL WESSELS CO. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- Any implied warranties which the user may have including merchantability and fitness for a particular purpose, shall not extend beyond the period (see below) from date of manufacture of any product. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- WARRANTY PERIODS:** **1 YEAR FROM DATE OF SHIPMENT:** All Wessels Co. products (except N-style, T-style and glass-lined storage tanks) when used on applications for which they are intended.
- 5 YEARS FROM DATE OF SHIPMENT:** Non-code T-style Thermal Expansion Tanks, non-code N-style expansion tanks, Glass-lined Storage Tanks for potable water without coils, heating devices or burners and temperatures not exceeding 180 degrees Fahrenheit.
- WARRANTY RETURN:** A return authorization number is required on all material returned for warranty. All freight charges are the responsibility of the shipper.
- PRODUCT RETURN:** A return authorization number is required on all material returned. A 25% re-stocking charge will apply (minimum of \$50 restocking charge).
- PRODUCT CHANGES:** We reserve the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications of products previously or subsequently sold.



WESSELS TANKS

At a Glance!

		HVAC Boiler Chiller Closed-loop	THERMAL Water Heaters Hot Potable Open System	HYDRO- PNEUMATIC Pressure Booster Cold Potable Open System
NON- ASME	Compression	CUSTOM ORDER (pg 11.3)	CUSTOM ORDER (pg 11.3)	CUSTOM ORDER (pg 11.3)
	Diaphragm	N (pg 8.2)	T (pg 14.2)	CUSTOM ORDER (pg 11.3)
	Removable Bladder	NL (pg 8.2)	TX (pg 14.2)	FX (pg 4.2)

ASME	Compression	NA (pg 8.3)	CUSTOM ORDER (pg 11.3)	NAG (pg 8.3)
	Diaphragm	NTA (pg 8.4)	TTA (pg 14.4)	FXT (pg 4.2)
	Removable Bladder	NLAP (pg 8.4) NLA (pg 8.6 - 8.7)	TXA (pg 14.4)	FXA (pg 4.4 - 4 .5)



AIR & DIRT ELIMINATION EQUIPMENT

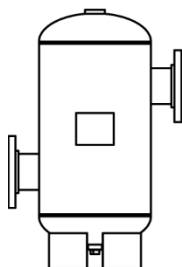
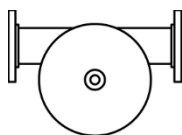
1

Air elimination equipment is used to separate entrained air in water through forced flow patterns. Air is collected and eliminated through an air vent connection located at the separator top. Typically used in **HVAC hydronic heating** and **chilled water** systems.

SPA TANGENTIAL AIR SEPARATORS - ASME

FOR STAINLESS
STEEL VERSIONS GO
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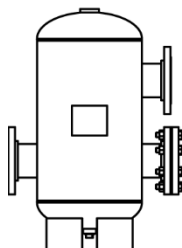
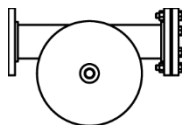
LESS STRAINER



ASME

Model	Part No.	List (\$)	Size	Type	Height	Width	Max GPM	Ship Wt. (lbs.)
SPA 2	72006019	\$ 715.00	2	NPT	22 1/2	16 5/8	56	50
SPA 2.5	72006025	\$ 735.00	2 1/2	NPT	22 1/2	16 5/8	90	55
SPA 3	72006030	\$ 1,115.00	3	FLNG	22 1/2	19 3/4	190	60
SPA 4	72006035	\$ 1,575.00	4	FLNG	32	21 3/4	300	90
SPA 5	72016036	\$ 1,928.00	5	FLNG	32	21 3/4	530	148
SPA 6	72016060	\$ 2,701.00	6	FLNG	44	28	850	191
SPA 8	72016080	\$ 3,758.00	8	FLNG	44	28	1900	379
SPA 10	72030010	\$ 6,021.00	10	FLNG	60 1/2	41	3600	598
SPA 12	72030012	\$ 9,236.00	12	FLNG	60 1/2	41	4800	947
SPA 14	72072014	\$12,088.00	14	FLNG	78	46 3/8	6100	1680
SPA 16	72072016	\$18,671.00	16	FLNG	108	60	8000	2300
SPA 18	72072018	\$27,017.00	18	FLNG	124	66	9700	3235
SPA 20	72072020	\$33,322.00	20	FLNG	138	72	12000	5100
SPA 22	72072022	\$38,115.00	22	FLNG	150	78	15000	6150
SPA 24	72072024	\$50,810.00	24	FLNG	160	84	17000	7210

WITH STRAINER



ASME

Model	Part No.	List (\$)	Size	Type	Height	Width	Max GPM	Ship Wt. (lbs.)
SPA 2S	72072101	\$ 846.00	2	NPT	22 1/2	16 5/8	56	55
SPA 2.5S	72072102	\$ 877.00	2 1/2	NPT	22 1/2	16 5/8	90	61
SPA 3S	72072103	\$ 1,397.00	3	FLNG	22 1/2	19 3/4	190	66
SPA 4S	72072104	\$ 1,854.00	4	FLNG	32	21 3/4	300	99
SPA 5S	72072105	\$ 2,608.00	5	FLNG	32	21 3/4	530	163
SPA 6S	72072106	\$ 3,179.00	6	FLNG	44	28	850	210
SPA 8S	72072108	\$ 4,353.00	8	FLNG	44	28	1900	417
SPA 10S	72072110	\$ 7,184.00	10	FLNG	60 1/2	41	3600	658
SPA 12S	72072112	\$10,918.00	12	FLNG	60 1/2	41	4800	1042
SPA 14S	72072114	\$15,578.00	14	FLNG	78	46 3/8	6100	1848
SPA 16S	72072116	\$26,163.00	16	FLNG	108	60	8000	2530
SPA 18S	72072118	\$35,658.00	18	FLNG	124	66	9700	3559
SPA 20S	72072120	\$44,064.00	20	FLNG	138	72	12000	5610
SPA 22S	72072122	\$46,802.00	22	FLNG	150	78	15000	6765
SPA 24S	72072124	\$58,466.00	24	FLNG	160	84	17000	7931

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F
Finish = Primer Painted Exterior



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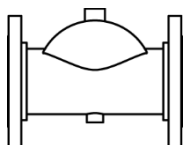
AIR & DIRT ELIMINATION EQUIPMENT

1

AP INLINE AIR PURGERS – Non-ASME

FOR STAINLESS
STEEL VERSIONS GO
TO PAGE 10.1

AIR PURGERS – FABRICATED STEEL

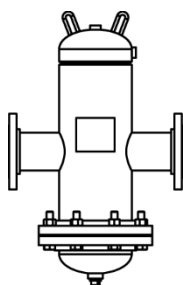


NON-ASME

Model	Part No.	List (\$)	Line Size	Height	Length	Tappings		Ship Wt (lbs.)
						Top	Btm.	
AP-104	75010449	\$ 495.00	4	5	12	3/4	1/2	50
AP-105	37620050	\$ 1,359.00	5	7 1/2	20	1 1/4	1 1/2	60
AP-106	37620060	\$ 1,658.00	6	8 1/2	24	1 1/4	1 1/2	65
AP-108	37620080	\$ 2,231.00	8	11 1/4	32	1 1/4	1 1/2	110
AP-110	37620100	\$ 2,998.00	10	14	40	1 1/4	1 1/2	165
AP-112	37620120	\$ 4,119.00	12	16 3/4	48	1 1/4	1 1/2	315
AP-114	37620140	\$ 7,001.00	14	22	56	1 1/4	1 1/2	475
AP-116	37620160	\$ 8,867.00	16	24	48	1 1/4	1 1/2	515
AP-118	37620180	\$ 11,035.00	18	28	72	1 1/4	1 1/2	545

Materials = Cast Iron for AP-104, all Others Fabricated Steel;
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior; Conforms to ASME requirements.

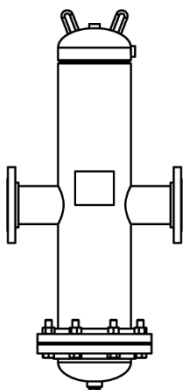
WVA WEISS-VENT AIR & DIRT SEPARATORS – ASME



ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVA-2	72302001	\$ 3,875.00	2	23	15 1/4	69	100
WVA-2.5	72302035	\$ 4,268.00	2 1/2	23	15 3/4	108	125
WVA-3	72302069	\$ 5,195.00	3	29	20 1/4	144	150
WVA-4	72302103	\$ 6,441.00	4	29	20 5/8	255	250
WVA-5	72302137	\$ 9,616.00	5	39	27 3/4	398	310
WVA-6	72302160	\$ 13,695.00	6	39	27 3/4	570	375
WVA-8	72302183	\$ 21,637.00	8	49	33 5/8	945	700
WVA-10	72302206	\$ 33,510.00	10	65	37 1/2	1440	1000
WVA-12	72302229	\$ 42,888.00	12	76	42 1/2	2100	1500

HIGH VELOCITY MODELS



ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVA-2HV	72303001	\$ 6,178.00	2	33	15 1/4	105	110
WVA-2.5HV	72303035	\$ 6,784.00	2 1/2	33	15 3/4	155	140
WVA-3HV	72303070	\$ 8,311.00	3	42	20 1/4	225	175
WVA-4HV	72303104	\$ 10,410.00	4	42	20 5/8	405	275
WVA-5HV	72303138	\$ 14,712.00	5	59	27 3/4	630	475
WVA-6HV	72303161	\$ 16,381.00	6	59	27 3/4	910	525
WVA-8HV	72303184	\$ 34,884.00	8	75	33 5/8	1610	825
WVA-10HV	72303207	\$ 48,819.00	10	92	37 1/2	2450	1275
WVA-12HV	72303230	\$ 62,247.00	12	110	42 1/2	3500	2050

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

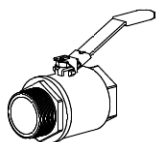
Sizes available up to 36" – Consult Factory for Pricing



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WVA WEISS-VENT TRIM PACKAGES

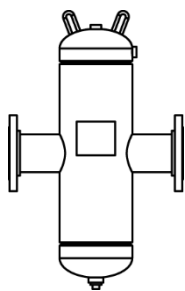
Model WVA-2 Thru WVA-36



Model	Part No.	List (\$)	Vent Size	Blow Down Valve Size	Skim Valve Size	Ship Wt. (lbs.)
WVA 2-14	74099993	\$529.00	3/4"	1"	1/2"	9
WVA 16-36	74099995	\$846.00	3/4"	2"	1"	10

Includes: Air Vent, Skim Valve, and Blow Down Valve.

WVN-N WEISS-VENT NON-REMOVABLE– Non-ASME



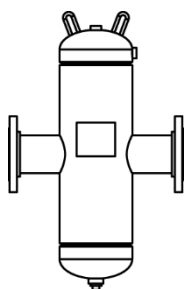
NON-ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVN-2N	74080020	\$ 2,799.00	2	23	15 1/4	69	76
WVN-2.5N	74080025	\$ 3,085.00	2 1/2	23	15 3/4	108	99
WVN-3N	74080030	\$ 3,753.00	3	29	20 1/4	144	114
WVN-4N	74080040	\$ 4,654.00	4	29	20 5/8	255	194
WVN-5N	74080050	\$ 6,948.00	5	39	27 3/4	398	230
WVN-6N	74080060	\$ 9,896.00	6	39	27 3/4	570	255
WVN-8N	74080080	\$ 15,632.00	8	49	33 5/8	945	514
WVN-10N	74080100	\$ 24,211.00	10	65	37 1/2	1440	770
WVN-12N	74080120	\$ 30,988.00	12	76	42 1/2	2100	1080

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36" – Consult Factory for Pricing

WVAN WEISS-VENT NON-REMOVABLE – ASME



ASME

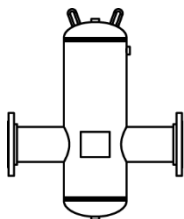
Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAN-2	72308001	\$ 3,294.00	2	23	15 1/4	69	76
WVAN-2.5	72308034	\$ 3,629.00	2 1/2	23	15 3/4	108	99
WVAN-3	72308067	\$ 4,414.00	3	29	20 1/4	144	114
WVAN-4	72308100	\$ 5,474.00	4	29	20 5/8	255	194
WVAN-5	72308133	\$ 8,174.00	5	39	27 3/4	398	230
WVAN-6	72308155	\$ 11,642.00	6	39	27 3/4	570	255
WVAN-8	72308177	\$ 18,391.00	8	49	33 5/8	945	514
WVAN-10	72308199	\$ 28,483.00	10	65	37 1/2	1440	770
WVAN-12	72308221	\$ 36,455.00	12	76	42 1/2	2100	1080

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36" – Consult Factory for Pricing



WVNA WESS-VENT AIR ELIMINATOR – Non-ASME

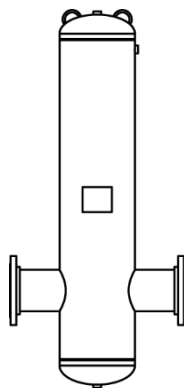


NON-ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVNA-2	72314002	\$ 2,380.00	2	18.5	15 1/4	69	35
WVNA-2.5	72314026	\$ 2,622.00	2 1/2	18.5	15 3/4	108	61
WVNA-3	72314050	\$ 3,189.00	3	23	20 1/4	144	71
WVNA-4	72314074	\$ 3,955.00	4	23	20 5/8	255	105
WVNA-5	72314098	\$ 5,906.00	5	31	27 3/4	398	92
WVNA-6	72314110	\$ 8,412.00	6	31	27 3/4	570	129
WVNA-8	72314122	\$ 13,287.00	8	36	33 5/8	945	225
WVNA-10	72314134	\$ 20,579.00	10	46	37 1/2	1440	375
WVNA-12	72314146	\$ 26,339.00	12	54	42 1/2	2100	564

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



NON-ASME

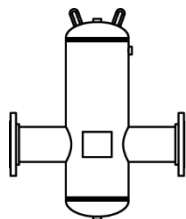
Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVNA-2HV	72315002	\$ 3,808.00	2	23	15 1/4	105	40
WVNA-2.5HV	72315026	\$ 4,196.00	2 1/2	23	15 3/4	155	68
WVNA-3HV	72315050	\$ 5,103.00	3	30	20 1/4	225	82
WVNA-4HV	72315074	\$ 6,328.00	4	30	20 5/8	405	122
WVNA-5HV	72315098	\$ 9,449.00	5	41	27 3/4	630	128
WVNA-6HV	72315110	\$ 13,459.00	6	41	27 3/4	910	140
WVNA-8HV	72315122	\$ 21,259.00	8	49	33 5/8	1610	245
WVNA-10HV	72315134	\$ 32,927.00	10	60	37 1/2	2450	407
WVNA-12HV	72315146	\$ 42,142.00	12	71	42 1/2	3500	612

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing



WVAA WESS-VENT AIR ELIMINATOR – ASME

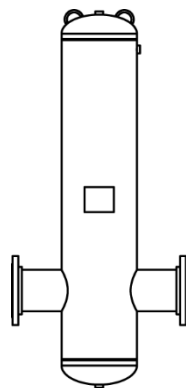


ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAA-2	72304002	\$ 2,800.00	2	18 1/2	15 1/4	69	35
WVAA-2.5	72304038	\$ 3,085.00	2 1/2	18 1/2	15 3/4	108	61
WVAA-3	72304074	\$ 3,752.00	3	23	20 1/4	144	71
WVAA-4	72304110	\$ 4,653.00	4	23	20 5/8	255	105
WVAA-5	72304146	\$ 6,948.00	5	31	27 3/4	398	92
WVAA-6	72304170	\$ 9,896.00	6	31	27 3/4	570	129
WVAA-8	72304194	\$ 15,632.00	8	36	33 5/8	945	225
WVAA-10	72304218	\$ 24,211.00	10	46	37 1/2	1440	375
WVAA-12	72304242	\$ 30,987.00	12	54	42 1/2	2100	564

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



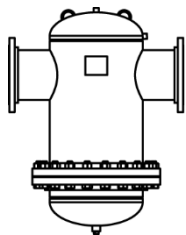
ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAA-2HV	72305002	\$ 4,480.00	2	23	15 1/4	105	40
WVAA-2.5HV	72305038	\$ 4,936.00	2 1/2	23	15 3/4	155	68
WVAA-3HV	72305074	\$ 6,003.00	3	30	20 1/4	225	82
WVAA-4HV	72305110	\$ 7,445.00	4	30	20 5/8	405	122
WVAA-5HV	72305146	\$ 11,117.00	5	41	27 3/4	630	128
WVAA-6HV	72305170	\$ 15,834.00	6	41	27 3/4	910	140
WVAA-8HV	72305194	\$ 25,011.00	8	49	33 5/8	1610	245
WVAA-10HV	72305218	\$ 38,738.00	10	60	37 1/2	2450	407
WVAA-12HV	72305242	\$ 49,579.00	12	71	42 1/2	3500	612

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing

WVAD WESS-VENT DIRT ELIMINATOR – ASME

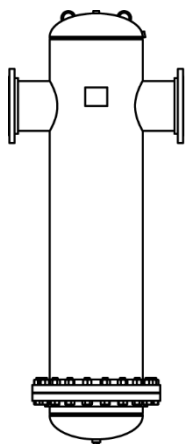


ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAD-2	72306002	\$ 3,139.00	2	18.5	15 1/4	69	64
WVAD-2.5	72306038	\$ 3,457.00	2 1/2	18.5	15 3/4	108	82
WVAD-3	72306074	\$ 4,208.00	3	23	20 1/4	144	113
WVAD-4	72306110	\$ 5,217.00	4	23	20 5/8	255	168
WVAD-5	72306146	\$ 7,789.00	5	31	27 3/4	398	245
WVAD-6	72306170	\$ 11,093.00	6	31	27 3/4	570	347
WVAD-8	72306194	\$ 17,526.00	8	36	33 5/8	945	451
WVAD-10	72306218	\$ 27,143.00	10	46	37 1/2	1440	711
WVAD-12	72306242	\$ 34,739.00	12	54	42 1/2	2100	1121

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



ASME

Model	Part No.	List (\$)	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAD-2HV	72307002	\$ 5,004.00	2	23	15 1/4	105	69
WVAD-2.5HV	72307038	\$ 5,495.00	2 1/2	23	15 3/4	155	89
WVAD-3HV	72307074	\$ 6,732.00	3	30	20 1/4	225	125
WVAD-4HV	72307110	\$ 8,432.00	4	30	20 5/8	405	185
WVAD-5HV	72307146	\$ 11,917.00	5	41	27 3/4	630	280
WVAD-6HV	72307170	\$ 13,269.00	6	41	27 3/4	910	390
WVAD-8HV	72307194	\$ 28,256.00	8	49	33 5/8	1610	472
WVAD-10HV	72307218	\$ 39,543.00	10	60	37 1/2	2450	744
WVAD-12HV	72307242	\$ 50,420.00	12	71	42 1/2	3500	1169

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing



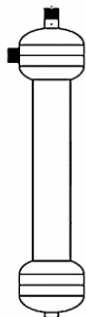
AIR & DIRT ELIMINATION EQUIPMENT

1

CFS CENTRIFUGAL SOLIDS SEPARATOR

FOR STAINLESS
STEEL VERSIONS GO
TO PAGE 10.3

CARBON STEEL – LOW FLOW DESIGN – 150 PSI



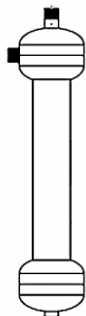
NON-ASME

Model	Part No.	List (\$)	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
CFS-50	69000050	\$ 957.00	19	6	1/2	5 - 10	11
CFS-75	69000075	\$ 1,036.00	19	6	3/4	10 - 20	14
CFS-100	69000100	\$ 1,161.00	29	6	1	17 - 32	21
CFS-125	69000125	\$ 1,253.00	29	6	1 1/4	28 - 50	21
CFS-150	69000150	\$ 1,321.00	29	6	1 1/2	45 - 70	22
CFS-200	69000200	\$ 1,867.00	32	8 5/8	2	70 - 110	41
CFS-250	69000250	\$ 2,267.00	35 1/2	8 5/8	2 1/2	100 - 160	45
CFS-300	69000300	\$ 4,065.00	39	10 3/4	3	150 - 250	78

Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models

CFA CENTRIFUGAL SOLIDS SEPERATOR – ASME

CARBON STEEL – LOW FLOW DESIGN – 150 PSI



ASME

Model	Part No.	List (\$)	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
CFA-50	69001050	\$ 1,125.00	19	6	1/2	5 - 10	11
CFA-75	69001075	\$ 1,219.00	19	6	3/4	10 - 20	14
CFA-100	69001100	\$ 1,366.00	29	6	1	17 - 32	21
CFA-125	69001125	\$ 1,473.00	29	6	1 1/4	28 - 50	21
CFA-150	69001150	\$ 1,554.00	29	6	1 1/2	45 - 70	22
CFA-200	69001200	\$ 2,197.00	32	8 5/8	2	70 - 110	41
CFA-250	69001250	\$ 2,667.00	35 1/2	8 5/8	2 1/2	100 - 160	45
CFA-300	69001300	\$ 4,782.00	39	10 3/4	3	150 - 250	78

Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models



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SIZING CHILLED-WATER BUFFER TANKS

To properly size a chilled-water buffer tank, three critical pieces of information are required:

- Total Chiller Capacity (Tons)
- Chiller Manufacturer's Recommended System Volume per Ton of Capacity (in gal. per ton)
- Actual System Volume (in gallons)

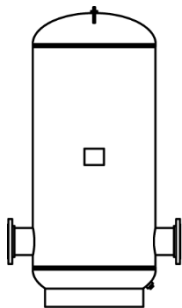
Use the following form to calculate tank size:

Total Chiller Capacity		Manufacturer's Recommended System Volume Per Ton		Critical System Volume
	TIMES		EQUALS	
Tons		Gal./Ton		Gallons

Critical System Volume		Actual System Volume		Total Buffer Tank Size
	MINUS		EQUALS	
Gallons		Gallons		Gallons

CBT CHILLED WATER BUFFER TANKS – ASME

CHILLED WATER BUFFER TANKS

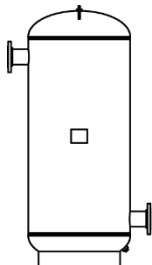


ASME

Model	Part No.	Gal.	Dia.	Ht.	Connection Size						Max. Ship Wt.	Insulation Jacket
					3" FLG	4" FLG	6" FLG	8" FLG	10" FLG	12" FLG		
CBT-120	55240120	120	24	60	\$ 6,767	\$ 6,935	\$ 7,897	\$ 8,887	\$ 9,879	\$ 10,295	410	\$ 2,663
CBT-200	55300200	200	30	72	\$ 8,161	\$ 8,328	\$ 9,290	\$ 10,282	\$ 11,273	\$ 11,625	555	\$ 3,483
CBT-300	55360300	300	36	72	\$ 9,917	\$ 10,085	\$ 11,174	\$ 12,297	\$ 13,419	\$ 13,785	690	\$ 4,174
CBT-500	55420500	500	42	90	\$ 13,726	\$ 13,895	\$ 14,856	\$ 15,849	\$ 16,840	\$ 17,345	1150	\$ 5,731
CBT-850	55540850	850	54	96	\$ 20,651	\$ 20,821	\$ 21,816	\$ 22,842	\$ 23,866	\$ 24,348	1945	\$ 7,280
CBT-1040	55601040	1040	60	96	\$ 25,096	\$ 25,265	\$ 26,228	\$ 27,218	\$ 28,209	\$ 28,718	2138	\$ 9,409

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F;
Finish = Red Oxide Primer; ¾" NPT Top Vent Connection; 1" NPT Bottom Drain
Connection; Also Available With 1" to 2-1/2" NPT System Connections, Up To 20"
Flange System Connections, and Higher Working Pressures – Consult Factory.

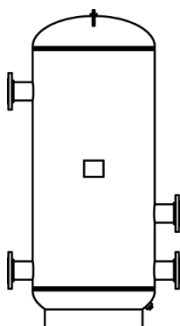
HBT HOT WATER BUFFER TANKS – ASME



HOT WATER BUFFER TANKS – 2 Ports

Model	Part No.	Gal.	Dia.	Ht.	Connection Size				Max. Ship Wt.
					2" NPT	3" NPT	3" FLG	4" FLG	
HBT-120	55621200	120	24	60	\$ 4,983.00	\$ 5,158.00	\$ 5,723.00	\$ 5,916.00	248
HBT-210	55622100	210	30	75	\$ 6,093.00	\$ 6,274.00	\$ 6,856.00	\$ 7,054.00	458
HBT-300	55623000	300	36	72	\$ 7,594.00	\$ 7,774.00	\$ 8,356.00	\$ 8,555.00	781

ASME



ASME

HOT WATER BUFFER TANKS – 4 Ports

Model	Part No.	Gal.	Dia.	Ht.	Connection Sizes		List (\$)	Ship Wt.
					Primary	Secondary		
HBT-120-22	55641222	120	24	60	2" NPT	2" NPT	\$ 5,397.00	206
HBT-210-22	55642122	210	30	75			\$ 6,520.00	408
HBT-300-22	55643022	300	36	72			\$ 8,020.00	739
HBT-120-23	55641223	120	24	60	2" NPT	3" FLG	\$ 5,570.00	228
HBT-210-23	55642123	210	30	75			\$ 6,700.00	426
HBT-300-23	55643023	300	36	72			\$ 8,195.00	759
HBT-120-24	55641224	120	24	60	2" NPT	4" FLG	\$ 6,270.00	235
HBT-210-24	55642124	210	30	75			\$ 7,420.00	435
HBT-300-24	55643024	300	36	72			\$ 8,979.00	768
HBT-120-26	55641226	120	24	60	2" NPT	6" FLG	\$ 6,705.00	254
HBT-210-26	55642126	210	30	75			\$ 7,867.00	454
HBT-300-26	55643026	300	36	72			\$ 9,428.00	787
HBT-120-34	55641234	120	24	60	3" FLG	4" FLG	\$ 6,443.00	255
HBT-210-34	55642134	210	30	75			\$ 7,600.00	455
HBT-300-34	55643034	300	36	72			\$ 9,154.00	788
HBT-120-36	55641236	120	24	60	3" FLG	6" FLG	\$ 6,880.00	274
HBT-210-36	55642136	210	30	75			\$ 8,046.00	574
HBT-300-36	55643036	300	36	72			\$ 9,601.00	807
HBT-120-33	55641233	120	24	60	3" FLG	3" FLG	\$ 6,888.00	246
HBT-210-33	55642133	210	30	75			\$ 8,056.00	546
HBT-300-33	55643033	300	36	72			\$ 9,557.00	779
HBT-120-44	55641244	120	24	60	4" FLG	4" FLG	\$ 7,272.00	264
HBT-210-44	55642144	210	30	75			\$ 8,452.00	564
HBT-300-44	55643044	300	36	72			\$ 9,953.00	797
HBT-120-46	55641246	120	24	60	4" FLG	6" FLG	\$ 7,704.00	283
HBT-210-46	55642146	210	30	75			\$ 8,899.00	583
HBT-300-46	55643046	300	36	72			\$10,399.00	816

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer; ¾" NPT Top Vent Connection; 1" NPT Bottom Drain Connection; Also Available With 1" to 2-1/2" NPT System Connections, Up To 20" Flange System Connections, and Higher Working Pressures – Consult Factory.

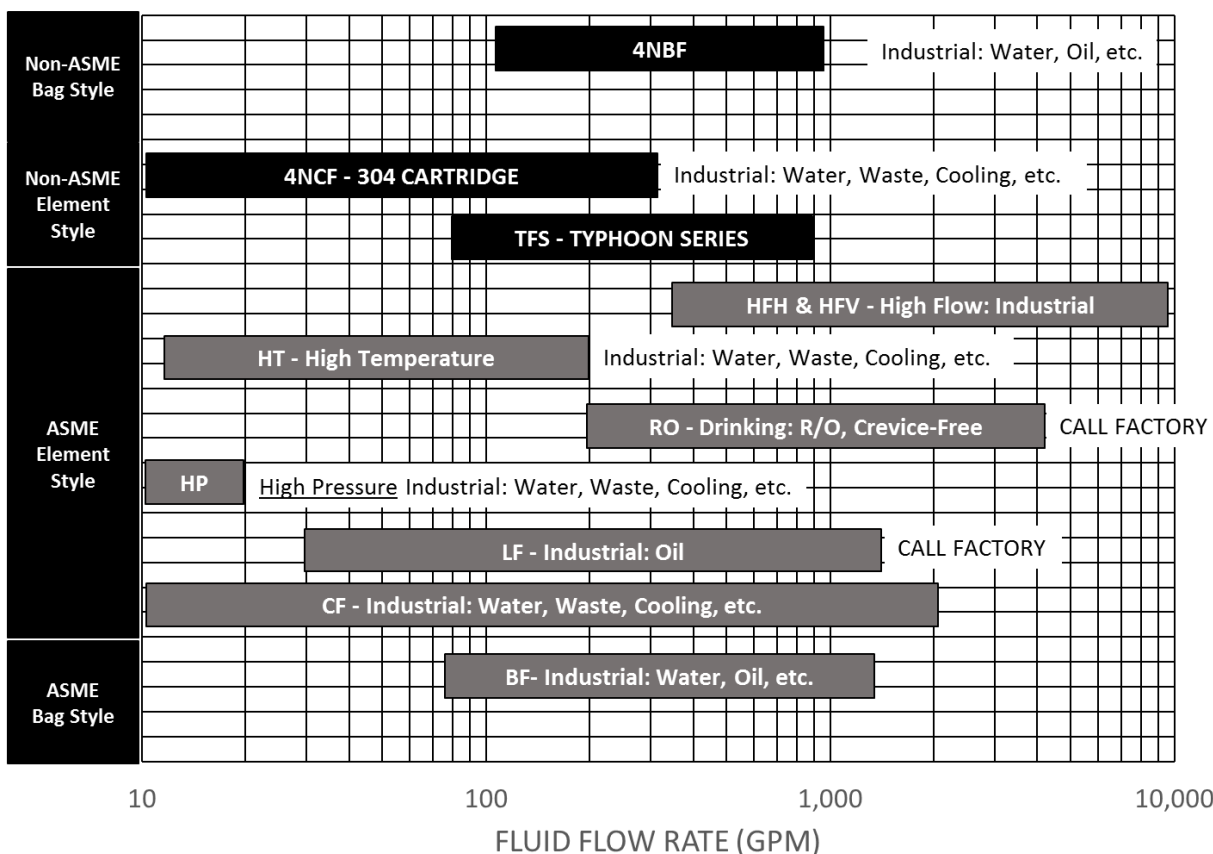
Filtration vessels and filter media enable the physical or mechanical process of separating insoluble particulate matter from a fluid, such as air or liquid, by passing the fluid through a filter medium that will not let the particulates through.

Typical Markets & Applications:

Amine	Process Water
Boiler Feed Systems	Agri-Water
Microelectronics	Brine
Mining & Minerals	Car Wash
Oil & Gas	Cooling Towers
Potable Water	Packaging Rinse Water
Pulp & Paper	Power Generation
Quench Water	Wastewater Treatment
RO Pre-filtration	Water Reclamation

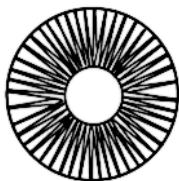
SIZING FILTRATION VESSELS

Wessels offers a vast array of filtration vessels designed for use in various markets such as HVAC, Industrial, Oil & Gas, Petrochemical, Water (potable, RO, process), etc. Please use the following sizing chart to assist in selecting the proper vessel series based on your system flow rate.



AB SERIES CARTRIDGE FILTER

2.5 INCH OD, 40 INCH LONG, 222 O-RING STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
AB-1/2-P42	9A001P42	\$ 121.00	0.5	Polypropylene	16.4	2.3
AB-1/2-G42	9A001G42	\$ 171.00	0.5	Glass	16.4	2.3
AB-02-P42	9A002P42	\$ 105.00	2	Polypropylene	20.5	2.9
AB-02-G42	9A002G42	\$ 126.00	2	Glass	16.4	2.3
AB-05-P42	9A005P42	\$ 88.00	5	Polypropylene	20.5	2.9
AB-05-R42	9A005R42	\$ 134.00	5	Polyester	16.4	2.3
AB-05-G42	9A005G42	\$ 126.00	5	Glass	16.4	2.3
AB-05-C42	9A005C42	\$ 70.00	5	Cellulose	16.4	2.3
AB-10-P42	9A010P42	\$ 88.00	10	Polypropylene	20.5	2.9
AB-10-R42	9A010R42	\$ 134.00	10	Polyester	16.4	2.3
AB-10-G42	9A010G42	\$ 127.00	10	Glass	16.4	2.3
AB-10-C42	9A010C42	\$ 70.00	10	Cellulose	16.4	2.3
AB-20-P42	9A020P42	\$ 87.00	20	Polypropylene	20.5	2.9
AB-20-R42	9A020R42	\$ 134.00	20	Polyester	16.4	2.3
AB-20-G42	9A020G42	\$ 124.00	20	Glass	16.4	2.3
AB-20-C42	9A020C42	\$ 68.00	20	Cellulose	16.4	2.3
AB-40-P42	9A040P42	\$ 97.00	40	Polypropylene	16.4	2.3
AB-40-R42	9A040R42	\$ 103.00	40	Polyester	16.4	2.3
AB-40-G42	9A040G42	\$ 116.00	40	Glass	16.4	2.3
AB-40-C42	9A040C42	\$ 69.00	40	Cellulose	16.4	2.3
AB-70-P42	9A070P42	\$ 91.00	70	Polypropylene	20.5	2.9
AB-70-R42	9A070R42	\$ 87.00	70	Polyester	16.4	2.3
AB-70-G42	9A070G42	\$ 116.00	70	Glass	16.4	2.3
AB-70-C42	9A070C42	\$ 72.00	70	Cellulose	16.4	2.3

FILTER MODIFIER GUIDE :

**CARTRIDGE
SERIES**
AB = CONVENTIONAL

**MICRON RATING
@ BETA 5000**
1/2 = 0.5 MICRON
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

DIAMETER CODE
BLANK = 2.5" OD
P = 3.0" OD
X = 3.75" OD (222 O-RING)
Y = 3.75" OD (139 O-RING)
Z = 3.75" OD (134 O-RING)

LENGTH
1 = 10"
2 = 29.75"
3 = 36"
4 = 40"
9 = 20"
X = CUSTOM

END CAP
1 = DOE
2 = O-RING
3 = SPRING
7 = FIN

MEDIA
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

A B 1 0

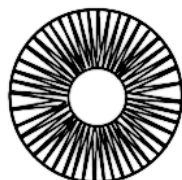
P 2 2



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company**

AB SERIES CARTRIDGE FILTER (CONT'D)

2.5 INCH OD, 40 INCH LONG, DOE STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
AB-1/2-P41	9A001P41	\$ 127.00	0.5	Polypropylene	16.4	2.3
AB-1/2-G41	9A001G41	\$ 177.00	0.5	Glass	16.4	2.3
AB-02-P41	9A002P41	\$ 112.00	2	Polypropylene	20.5	2.9
AB-02-G41	9A002G41	\$ 132.00	2	Glass	16.4	2.3
AB-05-P41	9A005P41	\$ 94.00	5	Polypropylene	20.5	2.9
AB-05-R41	9A005R41	\$ 141.00	5	Polyester	16.4	2.3
AB-05-G41	9A005G41	\$ 132.00	5	Glass	16.4	2.3
AB-05-C41	9A005C41	\$ 77.00	5	Cellulose	16.4	2.3
AB-10-P41	9A010P41	\$ 94.00	10	Polypropylene	20.5	2.9
AB-10-R41	9A010R41	\$ 141.00	10	Polyester	16.4	2.3
AB-10-G41	9A010G41	\$ 133.00	10	Glass	16.4	2.3
AB-10-C41	9A010C41	\$ 77.00	10	Cellulose	16.4	2.3
AB-20-P41	9A020P41	\$ 94.00	20	Polypropylene	20.5	2.9
AB-20-R41	9A020R41	\$ 141.00	20	Polyester	16.4	2.3
AB-20-G41	9A020G41	\$ 131.00	20	Glass	16.4	2.3
AB-20-C41	9A020C41	\$ 74.00	20	Cellulose	16.4	2.3
AB-40-P41	9A040P41	\$ 103.00	40	Polypropylene	16.4	2.3
AB-40-R41	9A040R41	\$ 109.00	40	Polyester	16.4	2.3
AB-40-G41	9A040G41	\$ 123.00	40	Glass	16.4	2.3
AB-40-C41	9A040C41	\$ 75.00	40	Cellulose	16.4	2.3
AB-70-P41	9A070P41	\$ 98.00	70	Polypropylene	20.5	2.9
AB-70-R41	9A070R41	\$ 93.00	70	Polyester	16.4	2.3
AB-70-G41	9A070G41	\$ 123.00	70	Glass	16.4	2.3
AB-70-C41	9A070C41	\$ 78.00	70	Cellulose	16.4	2.3

FILTER MODIFIER GUIDE :

**CARTRIDGE
SERIES**
AB = CONVENTIONAL

MICRON RATING @ BETA 5000

1/2 = 0.5 MICRON
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

DIAMETER CODE

BLANK = 2.5" OD
P = 3.0" OD
X = 3.75" OD (222 O-RING)
Y = 3.75" OD (139 O-RING)
Z = 3.75" OD (134 O-RING)

LENGTH

1 = 10"
2 = 29.75"
3 = 36"
4 = 40"
9 = 20"
X = CUSTOM

END CAP

1 = DOE
2 = O-RING
3 = SPRING
7 = FIN

MEDIA

C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

A B 1 0

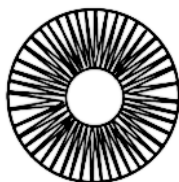
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AB SERIES CARTRIDGE FILTER (CONT'D)

3 INCH OD, 36 INCH LONG, SPRING STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
ABP-1/2-P33	9AP01P33	\$ 150.00	0.5	Polypropylene	15.0	2.3
ABP-1/2-G33	9AP01G33	\$ 199.00	0.5	Glass	15.0	2.3
ABP-02-P33	9AP02P33	\$ 134.00	2	Polypropylene	18.8	2.9
ABP-02-G33	9AP02G33	\$ 172.00	2	Glass	18.8	2.3
ABP-05-P33	9AP05P33	\$ 116.00	5	Polypropylene	18.8	2.9
ABP-05-R33	9AP05R33	\$ 183.00	5	Polyester	18.8	2.3
ABP-05-G33	9AP05G33	\$ 172.00	5	Glass	18.8	2.3
ABP-05-C33	9AP05C33	\$ 99.00	5	Cellulose	15.0	2.3
ABP-10-P33	9AP10P33	\$ 116.00	10	Polypropylene	18.8	2.9
ABP-10-R33	9AP10R33	\$ 183.00	10	Polyester	18.8	2.3
ABP-10-G33	9AP10G33	\$ 173.00	10	Glass	18.8	2.3
ABP-10-C33	9AP10C33	\$ 99.00	10	Cellulose	15.0	2.3
ABP-20-P33	9AP20P33	\$ 116.00	20	Polypropylene	18.8	2.9
ABP-20-R33	9AP20R33	\$ 183.00	20	Polyester	18.8	2.3
ABP-20-G33	9AP20G33	\$ 170.00	20	Glass	18.8	2.3
ABP-20-C33	9AP20C33	\$ 97.00	20	Cellulose	15.0	2.3
ABP-40-P33	9AP40P33	\$ 125.00	40	Polypropylene	15.0	2.3
ABP-40-R33	9AP40R33	\$ 131.00	40	Polyester	15.0	2.3
ABP-40-G33	9AP40G33	\$ 160.00	40	Glass	18.8	2.3
ABP-40-C33	9AP40C33	\$ 98.00	40	Cellulose	15.0	2.3
ABP-70-P33	9AP70P33	\$ 119.00	70	Polypropylene	18.8	2.9
ABP-70-R33	9AP70R33	\$ 124.00	70	Polyester	18.8	2.3
ABP-70-G33	9AP70G33	\$ 160.00	70	Glass	18.8	2.3
ABP-70-C33	9AP70C33	\$ 100.00	70	Cellulose	15.0	2.3

FILTER MODIFIER GUIDE :

CARTRIDGE SERIES

AB = CONVENTIONAL

MICRON RATING @ BETA 5000

1/2 = 0.5 MICRON
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

DIAMETER CODE

BLANK = 2.5" OD
P = 3.0" OD
X = 3.75" OD (222 O-RING)
Y = 3.75" OD (139 O-RING)
Z = 3.75" OD (134 O-RING)

LENGTH

1 = 10"
2 = 29.75"
3 = 36"
4 = 40"
9 = 20"
X = CUSTOM

END CAP

1 = DOE
2 = O-RING
3 = SPRING
7 = FIN

MEDIA

C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

A B P

1 0

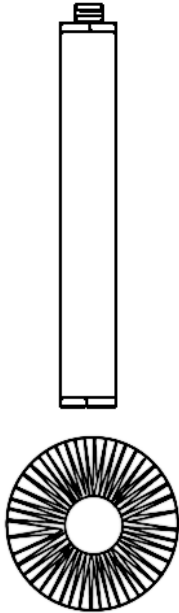
P 3 3



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AB SERIES CARTRIDGE FILTER (CONT'D)

3.75 INCH OD, 40 INCH LONG, 222 O-RING STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
ABY-1/2-P42	9AY01P42	\$ 285.00	0.5	Polypropylene	34.0	3.8
ABY-1/2-G42	9AY01G42	\$ 390.00	0.5	Glass	34.0	3.8
ABY-02-P42	9AY02P42	\$ 251.00	2	Polypropylene	42.5	4.7
ABY-02-G42	9AY02G42	\$ 329.00	2	Glass	42.5	4.7
ABY-05-P42	9AY05P42	\$ 212.00	5	Polypropylene	42.5	4.7
ABY-05-R42	9AP05R42	\$ 356.00	5	Polyester	42.5	4.7
ABY-05-G42	9AY05G42	\$ 329.00	5	Glass	42.5	4.7
ABY-05-C42	9AP05C42	\$ 173.00	5	Cellulose	34.0	3.8
ABY-10-P42	9AY10P42	\$ 212.00	10	Polypropylene	42.5	4.7
ABY-10-R42	9AP10R42	\$ 356.00	10	Polyester	42.5	4.7
ABY-10-G42	9AY10G42	\$ 332.00	10	Glass	42.5	4.7
ABY-10-C42	9AP10C42	\$ 173.00	10	Cellulose	34.0	3.8
ABY-20-P42	9AY20P42	\$ 212.00	20	Polypropylene	42.5	4.7
ABY-20-R42	9AP20R42	\$ 356.00	20	Polyester	42.5	4.7
ABY-20-G42	9AY20G42	\$ 326.00	20	Glass	42.5	4.7
ABY-20-C42	9AP20C42	\$ 167.00	20	Cellulose	34.0	3.8
ABY-40-P42	9AY40P42	\$ 232.00	40	Polypropylene	34.0	3.8
ABY-40-R42	9AP40R42	\$ 245.00	40	Polyester	34.0	3.8
ABY-40-G42	9AY40G42	\$ 305.00	40	Glass	42.5	4.7
ABY-40-C42	9AP40C42	\$ 170.00	40	Cellulose	34.0	3.8
ABY-70-P42	9AY70P42	\$ 220.00	70	Polypropylene	42.5	4.7
ABY-70-R42	9AP70R42	\$ 228.00	70	Polyester	42.5	4.7
ABY-70-G42	9AY70G42	\$ 305.00	70	Glass	42.5	4.7
ABY-70-C42	9AP70C42	\$ 175.00	70	Cellulose	34.0	3.8

FILTER MODIFIER GUIDE :

**CARTRIDGE
SERIES**
AB = CONVENTIONAL

MICRON RATING @ BETA 5000

1/2 = 0.5 MICRON
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

DIAMETER CODE

BLANK = 2.5" OD
P = 3.0" OD
X = 3.75" OD (222 O-RING)
Y = 3.75" OD (139 O-RING)
Z = 3.75" OD (134 O-RING)

LENGTH

1 = 10"
2 = 29.75"
3 = 36"
4 = 40"
9 = 20"
X = CUSTOM

END CAP

1 = DOE
2 = O-RING
3 = SPRING
7 = FIN

A B Y 1 0

P 4 2

MEDIA

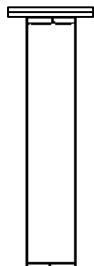
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER



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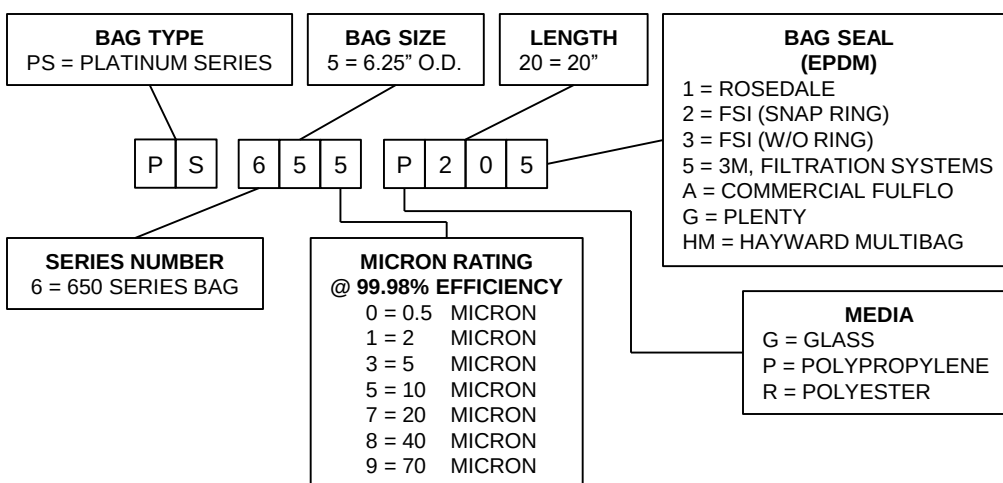
PLATINUM SERIES BAG FILTER

6.25 INCH OD, 20 INCH LONG, 650 SERIES



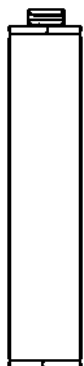
Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-650-P205	9P601P25	\$ 429.00	0.5	Polypropylene	49	6.7
PS-650-G205	9P601G25	\$ 473.00	0.5	Glass	35	4.8
PS-651-P205	9AY02P42	\$ 379.00	2	Polypropylene	59	8.1
PS-651-G205	9AY02G42	\$ 437.00	2	Glass	49	6.7
PS-653-P205	9AY05P42	\$ 329.00	5	Polypropylene	59	8.1
PS-653-R205	9AP05R42	\$ 456.00	5	Polyester	59	8.1
PS-653-G205	9AY05G42	\$ 437.00	5	Glass	49	6.7
PS-655-P205	9AY10P42	\$ 329.00	10	Polypropylene	59	8.1
PS-655-R205	9AP10R42	\$ 456.00	10	Polyester	59	8.1
PS-655-G205	9AY10G42	\$ 440.00	10	Glass	49	6.7
PS-657-P205	9AY20P42	\$ 329.00	20	Polypropylene	59	8.1
PS-657-R205	9AP20R42	\$ 456.00	20	Polyester	59	8.1
PS-657-G205	9AY20G42	\$ 434.00	20	Glass	49	6.7
PS-658-P205	9AY40P42	\$ 358.00	40	Polypropylene	49	6.7
PS-658-R205	9AP40R42	\$ 375.00	40	Polyester	49	6.7
PS-658-G205	9AY40G42	\$ 411.00	40	Glass	49	6.7
PS-659-P205	9AY70P42	\$ 338.00	70	Polypropylene	59	8.1
PS-659-R205	9AP70R42	\$ 350.00	70	Polyester	59	8.1
PS-659-G205	9AY70G42	\$ 364.00	70	Glass	49	6.7

FILTER MODIFIER GUIDE :



740 PLATINUM SERIES CARTRIDGE FILTER

6.25 INCH OD, 38 INCH LONG, 226 O-RING STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-740-P406	9P701P42	\$ 771.00	0.5	Polypropylene	90	10.6
PS-740-G406	9P701G42	\$ 860.00	0.5	Glass	77	9.1
PS-741-P406	9P702P42	\$ 671.00	2	Polypropylene	110	13.0
PS-741-G406	9P702G42	\$ 788.00	2	Glass	90	10.6
PS-743-P406	9P705P42	\$ 571.00	5	Polypropylene	110	13.0
PS-743-R406	9P705R42	\$ 949.00	5	Polyester	110	13.0
PS-743-G406	9P705G42	\$ 788.00	5	Glass	90	10.6
PS-743-C406	9P705C42	\$ 466.00	5	Cellulose	90	10.6
PS-745-P406	9P710P42	\$ 571.00	10	Polypropylene	110	13.0
PS-745-R406	9P710R42	\$ 949.00	10	Polyester	110	13.0
PS-745-G406	9P710G42	\$ 794.00	10	Glass	90	10.6
PS-745-C406	9P710C42	\$ 466.00	10	Cellulose	90	10.6
PS-747-P406	9P720P42	\$ 570.00	20	Polypropylene	110	13.0
PS-747-R406	9P720R42	\$ 949.00	20	Polyester	110	13.0
PS-747-G406	9P720G42	\$ 781.00	20	Glass	90	10.6
PS-747-C406	9P720C42	\$ 451.00	20	Cellulose	90	10.6
PS-748-P406	9P740P42	\$ 628.00	40	Polypropylene	90	10.6
PS-748-R406	9P740R42	\$ 664.00	40	Polyester	90	10.6
PS-748-G406	9P740G42	\$ 734.00	40	Glass	90	10.6
PS-748-C406	9P740C42	\$ 457.00	40	Cellulose	90	10.6
PS-749-P406	9P770P42	\$ 591.00	70	Polypropylene	110	13.0
PS-749-R406	9P770R42	\$ 613.00	70	Polyester	110	13.0
PS-749-G406	9P770G42	\$ 734.00	70	Glass	90	10.6
PS-749-C406	9P770C42	\$ 473.00	70	Cellulose	90	10.6

FILTER MODIFIER GUIDE :

PLATINUM SERIES

MICRON RATING @ BETA 5000

0 = 0.5 MICRON
1 = 2 MICRON
3 = 5 MICRON
5 = 10 MICRON
7 = 20 MICRON
8 = 40 MICRON
9 = 70 MICRON

SERIES NUMBER

740 = CARTRIDGE
(6.25" OD)

P S 7 4 5

LENGTH

40 = 37.875"

30 = 29.75"

G 4 0 6

FILTER SEAL (EPDM)

226 = O-RING

MEDIA

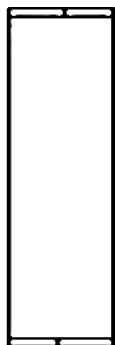
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER



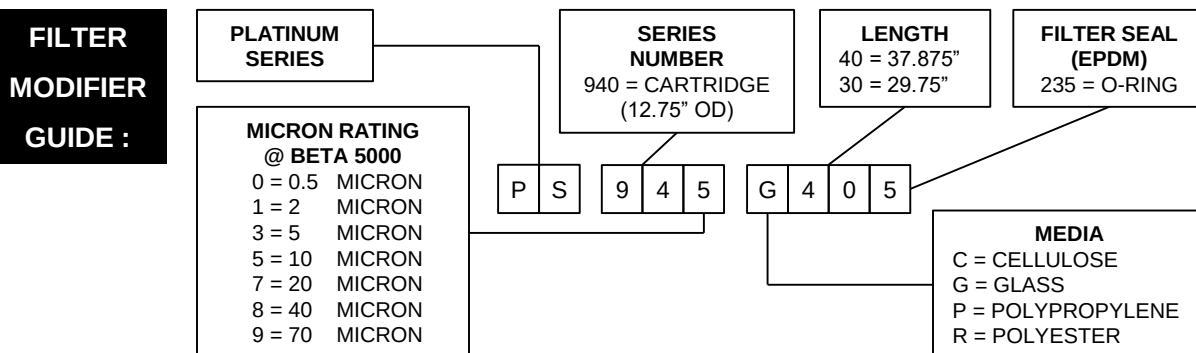
SINCE 1908
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company

940 PLATINUM SERIES CARTRIDGE FILTER

12.75 INCH OD, 38 INCH LONG, 235 O-RING STYLE

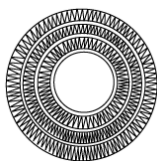
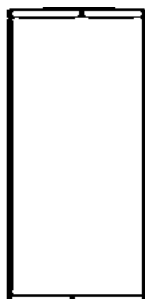


Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-940-P405	9PN01P42	\$ 2,898.00	0.5	Polypropylene	325	45.2
PS-940-G405	9PN01G42	\$ 3,652.00	0.5	Glass	272	37.9
PS-941-P405	9PN02P42	\$ 2,509.00	2	Polypropylene	390	54.3
PS-941-G405	9PN02G42	\$ 3,133.00	2	Glass	325	45.2
PS-943-P405	9PN05P42	\$ 2,160.00	5	Polypropylene	390	54.3
PS-943-R405	9PN05R42	\$ 3,474.00	5	Polyester	390	54.3
PS-943-G405	9PN05G42	\$ 3,133.00	5	Glass	325	45.2
PS-943-C405	9PN05C42	\$ 1,806.00	5	Cellulose	325	45.2
PS-945-P405	9PN10P42	\$ 2,160.00	10	Polypropylene	390	54.3
PS-945-R405	9PN10R42	\$ 3,474.00	10	Polyester	390	54.3
PS-945-G405	9PN10G42	\$ 3,154.00	10	Glass	325	45.2
PS-945-C405	9PN10C42	\$ 1,806.00	10	Cellulose	325	45.2
PS-947-P405	9PN20P42	\$ 2,159.00	20	Polypropylene	390	54.3
PS-947-R405	9PN20R42	\$ 3,474.00	20	Polyester	390	54.3
PS-947-G405	9PN20G42	\$ 3,107.00	20	Glass	325	45.2
PS-947-C405	9PN20C42	\$ 1,752.00	20	Cellulose	325	45.2
PS-948-P405	9PN40P42	\$ 2,565.00	40	Polypropylene	325	45.2
PS-948-R405	9PN40R42	\$ 2,693.00	40	Polyester	325	45.2
PS-948-G405	9PN40G42	\$ 2,940.00	40	Glass	325	45.2
PS-948-C405	9PN40C42	\$ 1,773.00	40	Cellulose	325	45.2
PS-949-P405	9PN70P42	\$ 2,228.00	70	Polypropylene	390	54.3
PS-949-R405	9PN70R42	\$ 2,304.00	70	Polyester	390	54.3
PS-949-G405	9PN70G42	\$ 2,940.00	70	Glass	325	45.2
PS-949-C405	9PN70C42	\$ 1,831.00	70	Cellulose	325	45.2



2040 PLATINUM SERIES CARTRIDGE FILTER

20 INCH OD, 38 INCH LONG, 235 O-RING STYLE



Model	Part No.	List (\$)	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-2040-P405	9PT01P42	\$ 9,401.00	0.5	Polypropylene	920	93.2
PS-2040-G405	9PT01G42	\$ 12,683.00	0.5	Glass	920	93.2
PS-2041-P405	9PT02P42	\$ 8,482.00	2	Polypropylene	1150	116.5
PS-2041-G405	9PT02G42	\$ 10,042.00	2	Glass	920	93.2
PS-2043-P405	9PT05P42	\$ 7,444.00	5	Polypropylene	1150	116.5
PS-2043-R405	9PT05R42	\$ 11,353.00	5	Polyester	1150	116.5
PS-2043-G405	9PT05G42	\$ 10,042.00	5	Glass	920	93.2
PS-2043-C405	9PT05C42	\$ 7,145.00	5	Cellulose	720	72.9
PS-2045-P405	9PT10P42	\$ 7,444.00	10	Polypropylene	1150	116.5
PS-2045-R405	9PT10R42	\$ 11,353.00	10	Polyester	1150	116.5
PS-2045-G405	9PT10G42	\$ 10,100.00	10	Glass	920	93.2
PS-2045-C405	9PT10C42	\$ 7,145.00	10	Cellulose	720	72.9
PS-2047-P405	9PT20P42	\$ 7,439.00	20	Polypropylene	1150	116.5
PS-2047-R405	9PT20R42	\$ 11,353.00	20	Polyester	1150	116.5
PS-2047-G405	9PT20G42	\$ 8,551.00	20	Glass	920	93.2
PS-2047-C405	9PT20C42	\$ 7,026.00	20	Cellulose	720	72.9
PS-2048-P405	9PT40P42	\$ 8,452.00	40	Polypropylene	920	93.2
PS-2048-R405	9PT40R42	\$ 8,814.00	40	Polyester	920	93.2
PS-2048-G405	9PT40G42	\$ 9,500.00	40	Glass	920	93.2
PS-2048-C405	9PT40C42	\$ 7,072.00	40	Cellulose	720	72.9
PS-2049-P405	9PT70P42	\$ 7,646.00	70	Polypropylene	1150	116.5
PS-2049-R405	9PT70R42	\$ 7,873.00	70	Polyester	1150	116.5
PS-2049-G405	9PT70G42	\$ 9,500.00	70	Glass	1150	116.5
PS-2049-C405	9PT70C42	\$ 7,200.00	70	Cellulose	720	72.9

FILTER MODIFIER GUIDE :

PLATINUM SERIES

MICRON RATING @ BETA 5000

0 = 0.5 MICRON
1 = 2 MICRON
3 = 5 MICRON
5 = 10 MICRON
7 = 20 MICRON
8 = 40 MICRON
9 = 70 MICRON

SERIES NUMBER

2040 = CARTRIDGE
(20.00" OD)

LENGTH

40 = 37.875"

30 = 29.75"

FILTER SEAL (EPDM)

235 = O-RING

P S 2 0 4 5

G 4 0 5

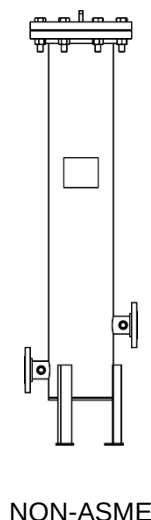
MEDIA

C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER



TFS TYPHOON FILTRATION SYSTEM – Non-ASME

304 STAINLESS STEEL HOUSING WITH FILTER – 150 PSI

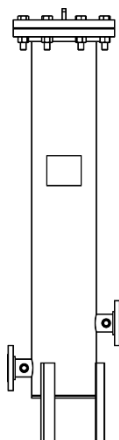


Model	Part No.	List (\$)	Ht.	Width	Line Size	# of Filters	Rec. Flow (GPM)	Shp Wt.
TFS-8-4S ₁	67510801	\$ 3,143.00	56 1/2	8 5/8	2	4	80	120
TFS-8-1S ₂	67510802	\$ 3,275.00	56 1/2	8 5/8		1	80	120
TFS-8-1P ₁	67510803	\$ 3,435.00	56 1/2	8 5/8		1	80	120
TFS-14-16S ₁	67511401	\$14,599.00	60 1/4	14	4	16	320	175
TFS-14-3S ₂	67511402	\$14,530.00	60 1/4	14		3	240	175
TFS-14-3P ₁	67511403	\$13,489.00	60 1/4	14		3	240	175
TFS-14-1P ₂	67511404	\$15,610.00	60 1/4	14		1	300	175
TFS-22-42S ₁	67512201	\$22,133.00	65 1/2	22	8	42	840	255
TFS-22-8S ₂	67512202	\$22,024.00	65 1/2	22		8	640	255
TFS-22-8P ₁	67512203	\$23,304.00	65 1/2	22		8	640	255
TFS-22-1P ₃	67512204	\$27,149.00	65 1/2	22		1	900	255

Carbon and 316L Stainless Available; Includes 38" long 10µ Polypro filter(s); Filter Types: Standard Pleated: S₁=2 1/2" Dia; S₂=6 1/4" Dia; Platinum: P₁=6 1/4" Dia; P₂=12 3/4" Dia; P₃=20" Dia; Specify if other material or micron size is required (see pages 3.1-3.9); Maximum Temperature = Filter Dependent; Maximum Pressure = 150 PSIG

TFA TYPHOON FILTRATION SYSTEM – ASME

304 STAINLESS STEEL HOUSING WITH FILTER – 125 PSI



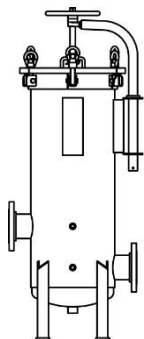
Model	Part No.	List (\$)	Ht.	Width	Line Size	# of Filters	Rec. Flow (GPM)	Shp Wt.
TFA-8-4S ₁	68510801	\$ 3,697.00	56 1/2	8 5/8	2	4	80	120
TFA-8-1S ₂	68510802	\$ 3,852.00	56 1/2	8 5/8		1	80	120
TFA-8-1P ₁	68510803	\$ 4,040.00	56 1/2	8 5/8		1	80	120
TFA-14-16S ₁	68511401	\$17,176.00	60 1/4	14	4	16	320	175
TFA-14-3S ₂	68511402	\$17,094.00	60 1/4	14		3	240	175
TFA-14-3P ₁	68511403	\$15,870.00	60 1/4	14		3	240	175
TFA-14-1P ₂	68511404	\$18,366.00	60 1/4	14		1	300	175
TFA-22-42S ₁	68512201	\$26,039.00	65 1/2	22	8	42	840	255
TFA-22-8S ₂	68512202	\$25,911.00	65 1/2	22		8	640	255
TFA-22-8P ₁	68512203	\$27,416.00	65 1/2	22		8	640	255
TFA-22-1P ₃	68512204	\$31,940.00	65 1/2	22		1	900	255

Carbon and 316L Stainless Available; Includes 38" long 10µ Polypro filter(s); Filter Types: Standard Pleated: S₁=2 1/2" Dia; S₂=6 1/4" Dia; Platinum: P₁=6 1/4" Dia; P₂=12 3/4" Dia; P₃=20" Dia; Specify if other material or micron size is required (see pages 3.1-3.9); Maximum Temperature = Filter Dependent; Maximum Pressure = 125 PSIG



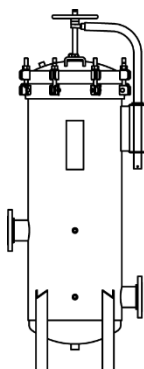
CF CARTRIDGE FILTER VESSELS – ASME

CARBON STEEL HOUSING – 150 PSI



Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
CF3-1-2	CF3-1-2	\$ 4,382.00	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
CF6-1-2	CF6-1-2	\$ 4,973.00	2-FLG	(6)-10"	27	14 7/8	30	180
CF6-2-2	CF6-2-2	\$ 5,155.00	2-FLG	(6)-20"	37	14 7/8	60	185
CF6-3-2	CF6-3-2	\$ 5,363.00	2-FLG	(6)-30"	47	14 7/8	90	200
CF6-4-3	CF6-4-3	\$ 5,610.00	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
CF12-3-3	CF12-3-3	\$ 6,615.00	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
CF12-3-4	CF12-3-4	\$ 6,707.00	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
CF12-4-4	CF12-4-4	\$ 6,752.00	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
CF19-3-4	CF19-3-4	\$ 7,915.00	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
CF19-4-4	CF19-4-4	\$ 8,195.00	4-FLG	(19)-40"	71 1/4	23 1/2	380	440

ASME



Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
CF25-3-4	CF25-3-4	\$ 9,031.00	4-FLG	(25) - 30"	67	26	375	515
CF25-4-6	CF25-4-6	\$ 9,542.00	6-FLG	(25) - 40"	80 3/4	26	500	540
CF35-3-6	CF35-3-6	\$ 11,091.00	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
CF35-4-6	CF35-4-6	\$ 11,282.00	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
CF40-3-6	CF40-3-6	\$ 12,705.00	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
CF40-4-6	CF40-4-6	\$ 13,421.00	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
CF52-3-6	CF52-3-6	\$ 14,852.00	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
CF52-4-8	CF52-4-8	\$ 15,741.00	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
CF85-3-8	CF85-3-8	\$ 20,175.00	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
CF85-4-8	CF85-4-8	\$ 21,398.00	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
CF102-3-8	CF102-3-8	\$ 23,252.00	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
CF102-4-8	CF102-4-8	\$ 24,351.00	8-FLG	(102) - 40"	91	42 1/4	2040	1600

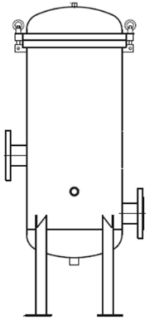
Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500° F; Finish = Primer Painted Exterior; Elements NOT included; Lift arm provided on CF12 and larger

ASME



4NCF CARTRIDGE FILTER VESSELS – Non-ASME

304 STAINLESS STEEL HOUSING – 150 PSI



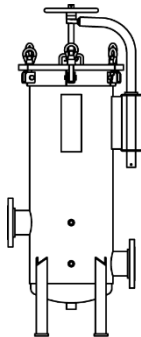
NON-ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4NCF11-1N	4NCF11-1N	\$ 354.00	1-NPT	(1)-10"	16	4 1/2	5	9
4NCF12-1N	4NCF12-1N	\$ 419.00	1-NPT	(1)-20"	26	4 1/2	10	11
4NCF51-2N	4NCF51-2N	\$ 676.00	2-NPT	(5)-10"	29 3/8	12	25	41
4NCF52-2N	4NCF52-2N	\$ 731.00	2-NPT	(5)-20"	39 1/8	12	50	48
4NCF53-2N	4NCF53-2N	\$ 795.00	2-NPT	(5)-30"	49	12	75	55
4NCF54-2N	4NCF54-2N	\$ 860.00	2-NPT	(5)-40"	59 1/4	12	100	62
4NCF73-2N	4NCF73-2N	\$ 1,331.00	2-NPT	(7)-30"	51 3/4	14	105	75
4NCF74-2N	4NCF74-2N	\$ 1,396.00	2-NPT	(7)-40"	62	14	140	84
4NCF113-3	4NCF113-3	\$ 1,932.00	3-FLG	(11)-30"	55 3/4	18 1/4	165	115
4NCF114-3	4NCF114-3	\$ 2,148.00	3-FLG	(11)-40"	65 1/8	18 1/4	220	123
4NCF193-4	4NCF193-4	\$ 2,576.00	4-FLG	(19)-30"	58 1/2	23 3/4	285	161
4NCF194-4	4NCF194-4	\$ 2,684.00	4-FLG	(19)-40"	67 1/2	23 3/4	380	175

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included

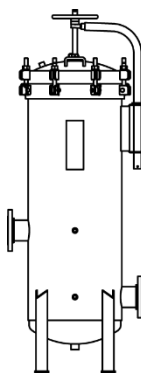
4CF CARTRIDGE FILTER VESSELS – ASME

304 STAINLESS STEEL HOUSING – 150 PSI



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4CF3-1-2	4CF3-1-2	\$ 6,539.00	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
4CF6-1-2	4CF6-1-2	\$ 6,954.00	2-FLG	(6)-10"	27	14 7/8	30	180
4CF6-2-2	4CF6-2-2	\$ 7,579.00	2-FLG	(6)-20"	37	14 7/8	60	185
4CF6-3-2	4CF6-3-2	\$ 7,937.00	2-FLG	(6)-30"	47	14 7/8	90	200
4CF6-4-3	4CF6-4-3	\$ 8,384.00	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
4CF12-3-3	4CF12-3-3	\$ 12,090.00	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
4CF12-3-4	4CF12-3-4	\$ 12,716.00	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
4CF12-4-4	4CF12-4-4	\$ 13,164.00	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
4CF19-3-4	4CF19-3-4	\$ 16,058.00	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
4CF19-4-4	4CF19-4-4	\$ 16,751.00	4-FLG	(19)-40"	71 1/4	23 1/2	380	440



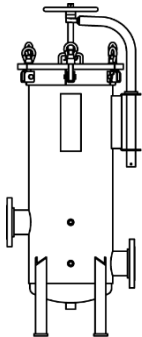
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4CF25-3-4	4CF25-3-4	\$ 17,703.00	4-FLG	(25) - 30"	67	26	375	515
4CF25-4-6	4CF25-4-6	\$ 18,845.00	6-FLG	(25) - 40"	80 3/4	26	500	540
4CF35-3-6	4CF35-3-6	\$ 23,143.00	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
4CF35-4-6	4CF35-4-6	\$ 23,836.00	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
4CF40-3-6	4CF40-3-6	\$ 24,928.00	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
4CF40-4-6	4CF40-4-6	\$ 25,513.00	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
4CF52-3-6	4CF52-3-6	\$ 29,182.00	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
4CF52-4-8	4CF52-4-8	\$ 30,271.00	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
4CF85-3-8	4CF85-3-8	\$ 40,370.00	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
4CF85-4-8	4CF85-4-8	\$ 42,802.00	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
4CF102-3-8	4CF102-3-8	\$ 46,771.00	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
4CF102-4-8	4CF102-4-8	\$ 49,008.00	8-FLG	(102) - 40"	91	42 1/4	2040	1600

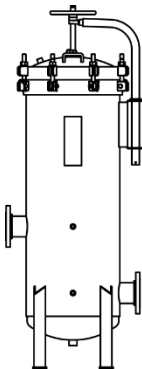
Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger

6CF CARTRIDGE FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING – 150 PSI



ASME



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6CF3-1-2	6CF3-1-2	\$ 7,887.00	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
6CF6-1-2	6CF6-1-2	\$ 8,517.00	2-FLG	(6)-10"	27	14 7/8	30	180
6CF6-2-2	6CF6-2-2	\$ 9,220.00	2-FLG	(6)-20"	37	14 7/8	60	185
6CF6-3-2	6CF6-3-2	\$ 9,657.00	2-FLG	(6)-30"	47	14 7/8	90	200
6CF6-4-3	6CF6-4-3	\$ 10,097.00	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
6CF12-3-3	6CF12-3-3	\$ 14,544.00	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
6CF12-3-4	6CF12-3-4	\$ 15,460.00	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
6CF12-4-4	6CF12-4-4	\$ 15,908.00	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
6CF19-3-4	6CF19-3-4	\$ 19,029.00	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
6CF19-4-4	6CF19-4-4	\$ 20,177.00	4-FLG	(19)-40"	71 1/4	23 1/2	380	440

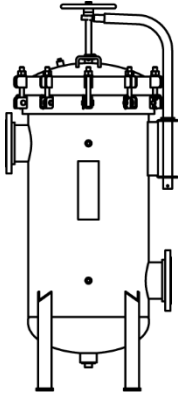
Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6CF25-3-4	6CF25-3-4	\$ 21,863.00	4-FLG	(25) - 30"	67	26	375	515
6CF25-4-6	6CF25-4-6	\$ 22,550.00	6-FLG	(25) - 40"	80 3/4	26	500	540
6CF35-3-6	6CF35-3-6	\$ 27,310.00	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
6CF35-4-6	6CF35-4-6	\$ 28,508.00	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
6CF40-3-6	6CF40-3-6	\$ 29,542.00	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
6CF40-4-6	6CF40-4-6	\$ 30,127.00	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
6CF52-3-6	6CF52-3-6	\$ 34,866.00	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
6CF52-4-8	6CF52-4-8	\$ 37,100.00	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
6CF85-3-8	6CF85-3-8	\$ 42,955.00	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
6CF85-4-8	6CF85-4-8	\$ 46,202.00	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
6CF102-3-8	6CF102-3-8	\$ 55,137.00	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
6CF102-4-8	6CF102-4-8	\$ 60,502.00	8-FLG	(102) - 40"	91	42 1/4	2040	1600

Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger



BF BAG FILTER VESSELS – ASME

CARBON STEEL HOUSING – 150 PSI



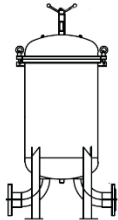
ASME

Model	Part No.	List (\$)	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
BF11-2	BF11-2	\$ 5,141.00	2-FLG	(1) #1	34 7/8	14 7/8	80	180
BF12-3	BF12-3	\$ 6,051.00	3-FLG	(1) #2	48 3/4	16	160	200
BF31-3	BF31-3	\$ 9,004.00	3-FLG	(3) #1	54	26	240	600
BF32-4	BF32-4	\$ 9,857.00	4-FLG	(3) #2	67	26	480	650
BF41-4	BF41-4	\$ 12,302.00	4-FLG	(4) #1	54 1/2	28	320	670
BF42-6	BF42-6	\$ 14,346.00	6-FLG	(4) #2	71 1/4	30	640	740
BF52-6	BF52-6	\$ 15,122.00	6-FLG	(5) #2	71 1/2	30	800	700
BF62-8	BF62-8	\$ 18,412.00	8-FLG	(6) #2	75	36	960	1105
BF72-8	BF72-8	\$ 20,867.00	8-FLG	(7) #2	75	36	1120	1105
BF82-8	BF82-8	\$ 21,186.00	8-FLG	(8) #2	75 1/2	38	1280	1180
BF92-8	BF92-8	\$ 23,575.00	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500° F; Finish = Primer Exterior; Bag Filters NOT included; Lift arm provided on BF31 and larger

4NBF BAG FILTER VESSELS – Non-ASME

304 STAINLESS STEEL HOUSING – 150 PSI



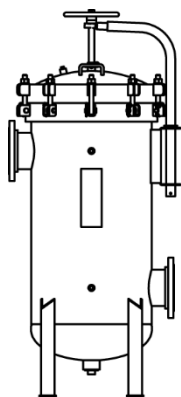
NON-ASME

Model	Part No.	List (\$)	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
4NBF12-2N	4NBF12-2N	\$ 1,373.00	2-NPT	(1) #2	43	12	160	82
4NBF12-2	4NBF12-2	\$ 1,473.00	2-FLG	(1) #2	44	13	160	88
4NBF42-4	4NBF42-4	\$ 9,551.00	4-FLG	(4) #2	62	32	640	419
4NBF62-6	4NBF62-6	\$ 14,321.00	6-FLG	(6) #2	71	35	960	660

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 4BF31 and larger

4BF BAG FILTER VESSELS – ASME

304 STAINLESS STEEL HOUSING – 150 PSI



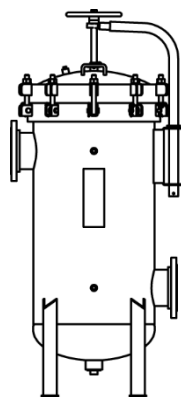
ASME

Model	Part No.	List (\$)	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
4BF11-2	4BF11-2	\$ 7,069.00	2-FLG	(1) #1	34 7/8	14 7/8	80	180
4BF12-3	4BF12-3	\$ 8,356.00	3-FLG	(1) #2	48 3/4	16	160	200
4BF31-3	4BF31-3	\$ 18,908.00	3-FLG	(3) #1	54	26	240	600
4BF32-4	4BF32-4	\$ 19,420.00	4-FLG	(3) #2	67	26	480	650
4BF41-4	4BF41-4	\$ 20,578.00	4-FLG	(4) #1	54 1/2	28	320	670
4BF42-6	4BF42-6	\$ 21,577.00	6-FLG	(4) #2	71 1/4	30	640	740
4BF52-6	4BF52-6	\$ 25,708.00	6-FLG	(5) #2	71 1/2	30	800	700
4BF62-8	4BF62-8	\$ 28,783.00	8-FLG	(6) #2	75	36	960	1105
4BF72-8	4BF72-8	\$ 32,845.00	8-FLG	(7) #2	75	36	1120	1105
4BF82-8	4BF82-8	\$ 37,205.00	8-FLG	(8) #2	75 1/2	38	1280	1180
4BF92-8	4BF92-8	\$ 38,617.00	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Bag Filters NOT included

6BF BAG FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING – 150 PSI



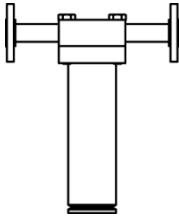
ASME

Model	Part No.	List (\$)	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
6BF11-2	6BF11-2	\$ 8,467.00	2-FLG	(1) #1	34 7/8	14 7/8	80	180
6BF12-3	6BF12-3	\$ 10,026.00	3-FLG	(1) #2	48 3/4	16	160	200
6BF31-3	6BF31-3	\$ 23,164.00	3-FLG	(3) #1	54	26	240	600
6BF32-4	6BF32-4	\$ 23,703.00	4-FLG	(3) #2	67	26	480	650
6BF41-4	6BF41-4	\$ 24,537.00	4-FLG	(4) #1	54 1/2	28	320	670
6BF42-6	6BF42-6	\$ 25,801.00	6-FLG	(4) #2	71 1/4	30	640	740
6BF52-6	6BF52-6	\$ 27,366.00	6-FLG	(5) #2	71 1/2	30	800	700
6BF62-8	6BF62-8	\$ 33,392.00	8-FLG	(6) #2	75	36	960	1105
6BF72-8	6BF72-8	\$ 35,814.00	8-FLG	(7) #2	75	36	1120	1105
6BF82-8	6BF82-8	\$ 39,489.00	8-FLG	(8) #2	75 1/2	38	1280	1180
6BF92-8	6BF92-8	\$ 44,009.00	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 6BF31 and larger

HP HIGH PRESSURE CARTRIDGE FILTER VESSELS – ASME

CARBON STEEL HOUSING



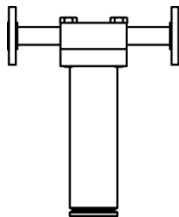
ASME

Model/Part#	Pressure Rating (psi)	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
HP-11-1N	1610	\$ 2,567.00	1-NPT	(1)-10"	14 1/2	4 5/8	6	37
HP-11-1-150	245	\$ 3,059.00	1-FLG-150#	(1)-10"	14 1/2	12 5/8	6	45
HP-11-1-300	665	\$ 3,109.00	1-FLG-300#	(1)-10"	14 1/2	12 5/8	6	47
HP-11-1-600	1332	\$ 3,175.00	1-FLG-600#	(1)-10"	14 1/2	12 5/8	6	47
HP-12-1N	1610	\$ 2,689.00	1-NPT	(1)-20"	24 1/2	4 5/8	12	46
HP-12-1-150	245	\$ 3,181.00	1-FLG-150#	(1)-20"	24 1/2	12 5/8	12	54
HP-12-1-300	665	\$ 3,231.00	1-FLG-300#	(1)-20"	24 1/2	12 5/8	12	56
HP-12-1-600	1332	\$ 3,297.00	1-FLG-600#	(1)-20"	24 1/2	12 5/8	12	56
HP-13-1N	1610	\$ 2,791.00	1-NPT	(1)-30"	34 1/2	4 5/8	18	55
HP-13-1-150	245	\$ 3,283.00	1-FLG-150#	(1)-30"	34 1/2	12 5/8	18	63
HP-13-1-300	665	\$ 3,333.00	1-FLG-300#	(1)-30"	34 1/2	12 5/8	18	65
HP-13-1-600	1332	\$ 3,399.00	1-FLG-600#	(1)-30"	34 1/2	12 5/8	18	65

Materials = Carbon Steel; Maximum Pressure based on rating of flanges;
Maximum Temperature = 300° F; Finish = Primer Exterior; Filters NOT included

6HP HIGH PRESSURE CARTRIDGE FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING



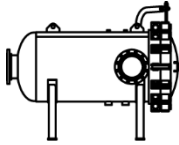
ASME

Model/Part#	Pressure Rating (psi)	List (\$)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6HP-11-1N	1610	\$ 3,303.00	1-NPT	(1)-10"	14 1/2	4 5/8	6	37
6HP-11-1-150	225	\$ 3,922.00	1-FLG-150#	(1)-10"	14 1/2	12 5/8	6	45
6HP-11-1-300	590	\$ 4,062.00	1-FLG-300#	(1)-10"	14 1/2	12 5/8	6	47
6HP-11-1-600	1180	\$ 4,398.00	1-FLG-600#	(1)-10"	14 1/2	12 5/8	6	47
6HP-12-1N	1610	\$ 3,587.00	1-NPT	(1)-20"	24 1/2	4 5/8	12	46
6HP-12-1-150	225	\$ 4,207.00	1-FLG-150#	(1)-20"	24 1/2	12 5/8	12	54
6HP-12-1-300	590	\$ 4,346.00	1-FLG-300#	(1)-20"	24 1/2	12 5/8	12	56
6HP-12-1-600	1180	\$ 4,683.00	1-FLG-600#	(1)-20"	24 1/2	12 5/8	12	56
6HP-13-1N	1610	\$ 3,748.00	1-NPT	(1)-30"	34 1/2	4 5/8	18	55
6HP-13-1-150	225	\$ 4,368.00	1-FLG-150#	(1)-30"	34 1/2	12 5/8	18	63
6HP-13-1-300	590	\$ 4,507.00	1-FLG-300#	(1)-30"	34 1/2	12 5/8	18	65
6HP-13-1-600	1180	\$ 4,844.00	1-FLG-600#	(1)-30"	34 1/2	12 5/8	18	65

Materials = 316L Stainless Steel; Maximum based on rating of flanges; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Filters NOT included

HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

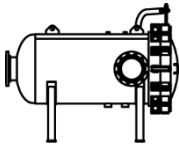
40" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
HFH14-3	HFH14-3	\$ 7,051.00	3-FLG	(1)-40"	43	60 1/4	350	250
HFH34-6	HFH34-6	\$ 14,478.00	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
HFH54-8	HFH54-8	\$ 22,980.00	8-FLG	(5)-40"	59	77	1750	935
HFH74-10	HFH74-10	\$ 26,247.00	10-FLG	(7)-40"	60	79 3/4	2450	1106
HFH84-10	HFH84-10	\$ 27,910.00	10-FLG	(8)-40"	61	79 7/8	2800	1248
HFH124-12	HFH124-12	\$ 36,983.00	12-FLG	(12)-40"	64	88 3/8	4200	1672
HFH154-14	HFH154-14	\$ 42,598.00	14-FLG	(15)-40"	65	90 3/4	5250	1938
HFH194-16	HFH194-16	\$ 50,990.00	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593

60" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



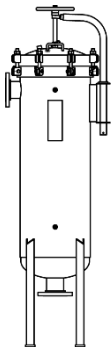
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
HFH16-4	HFH16-4	\$ 7,411.00	4-FLG	(1)-60"	43	81 1/4	500	325
HFH36-8	HFH36-8	\$ 15,689.00	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
HFH56-10	HFH56-10	\$ 24,636.00	10-FLG	(5)-60"	59	99	2500	1070
HFH76-10	HFH76-10	\$ 27,263.00	10-FLG	(7)-60"	60	99 3/4	3500	1181
HFH86-12	HFH86-12	\$ 30,034.00	12-FLG	(8)-60"	61	101 7/8	4000	1389
HFH126-14	HFH126-14	\$ 39,122.00	14-FLG	(12)-60"	64	109 3/4	6000	1834
HFH156-16	HFH156-16	\$ 45,427.00	16-FLG	(15)-60"	65	112 7/8	7500	2113
HFH196-18	HFH196-18	\$ 53,840.00	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

40" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



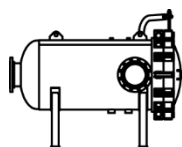
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
HFV14-3	HFV14-3	\$ 3,893.00	3-FLG	(1)-40"	69 3/8	8	350	250
HFV34-6	HFV34-6	\$ 14,052.00	6-FLG	(3)-40"	94 1/4	16	1050	694
HFV54-8	HFV54-8	\$ 22,300.00	8-FLG	(5)-40"	106 1/4	20	1750	935
HFV74-10	HFV74-10	\$ 25,468.00	10-FLG	(7)-40"	115 1/4	22	2450	1106
HFV84-10	HFV84-10	\$ 27,083.00	10-FLG	(8)-40"	115 1/2	24	2800	1248
HFV124-12	HFV124-12	\$ 35,884.00	12-FLG	(12)-40"	129	30	4200	1672
HFV154-14	HFV154-14	\$ 41,329.00	14-FLG	(15)-40"	135	32	5250	1938
HFV194-16	HFV194-16	\$ 49,468.00	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

4HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

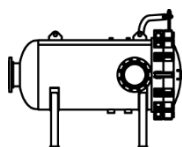
40" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
4HFH14-3	4HFH14-3	\$ 10,164.00	3-FLG	(1)-40"	43	60 1/4	350	250
4HFH34-6	4HFH34-6	\$ 21,938.00	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
4HFH54-8	4HFH54-8	\$ 35,354.00	8-FLG	(5)-40"	59	77	1750	935
4HFH74-10	4HFH74-10	\$ 41,168.00	10-FLG	(7)-40"	60	79 3/4	2450	1106
4HFH84-10	4HFH84-10	\$ 43,945.00	10-FLG	(8)-40"	61	79 7/8	2800	1248
4HFH124-12	4HFH124-12	\$ 59,301.00	12-FLG	(12)-40"	64	88 3/8	4200	1672
4HFH154-14	4HFH154-14	\$ 69,198.00	14-FLG	(15)-40"	65	90 3/4	5250	1938
4HFH194-16	4HFH194-16	\$ 82,490.00	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593

60" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI



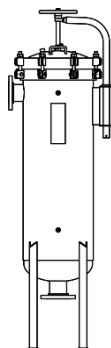
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
4HFH16-4	4HFH16-4	\$ 10,658.00	4-FLG	(1)-60"	43	81 1/4	500	325
4HFH36-8	4HFH36-8	\$ 24,176.00	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
4HFH56-10	4HFH56-10	\$ 38,906.00	10-FLG	(5)-60"	59	99	2500	1070
4HFH76-10	4HFH76-10	\$ 43,046.00	10-FLG	(7)-60"	60	99 3/4	3500	1181
4HFH86-12	4HFH86-12	\$ 46,936.00	12-FLG	(8)-60"	61	101 7/8	4000	1389
4HFH126-14	4HFH126-14	\$ 64,537.00	14-FLG	(12)-60"	64	109 3/4	6000	1834
4HFH156-16	4HFH156-16	\$ 74,867.00	16-FLG	(15)-60"	65	112 7/8	7500	2113
4HFH196-18	4HFH196-18	\$ 88,302.00	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

4HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

40" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI



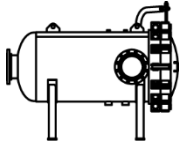
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
HFV14-3	HFV14-3	\$ 3,893.00	3-FLG	(1)-40"	69 3/8	8	350	250
HFV34-6	HFV34-6	\$ 14,052.00	6-FLG	(3)-40"	94 1/4	16	1050	694
HFV54-8	HFV54-8	\$ 22,300.00	8-FLG	(5)-40"	106 1/4	20	1750	935
HFV74-10	HFV74-10	\$ 25,468.00	10-FLG	(7)-40"	115 1/4	22	2450	1106
HFV84-10	HFV84-10	\$ 27,083.00	10-FLG	(8)-40"	115 1/2	24	2800	1248
HFV124-12	HFV124-12	\$ 35,884.00	12-FLG	(12)-40"	129	30	4200	1672
HFV154-14	HFV154-14	\$ 41,329.00	14-FLG	(15)-40"	135	32	5250	1938
HFV194-16	HFV194-16	\$ 49,468.00	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

6HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

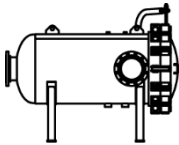
40" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
6HFH14-3	6HFH14-3	\$ 10,801.00	3-FLG	(1)-40"	43	60 1/4	350	250
6HFH34-6	6HFH34-6	\$ 24,050.00	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
6HFH54-8	6HFH54-8	\$ 38,387.00	8-FLG	(5)-40"	59	77	1750	935
6HFH74-10	6HFH74-10	\$ 44,999.00	10-FLG	(7)-40"	60	79 3/4	2450	1106
6HFH84-10	6HFH84-10	\$ 48,224.00	10-FLG	(8)-40"	61	79 7/8	2800	1248
6HFH124-12	6HFH124-12	\$ 66,821.00	12-FLG	(12)-40"	64	88 3/8	4200	1672
6HFH154-14	6HFH154-14	\$ 78,475.00	14-FLG	(15)-40"	65	90 3/4	5250	1938
6HFH194-16	6HFH194-16	\$ 94,988.00	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593

60" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI



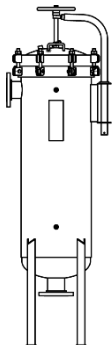
ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
6HFH16-4	6HFH16-4	\$ 11,461.00	4-FLG	(1)-60"	43	81 1/4	500	325
6HFH36-8	6HFH36-8	\$ 26,712.00	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
6HFH56-10	6HFH56-10	\$ 42,908.00	10-FLG	(5)-60"	59	99	2500	1070
6HFH76-10	6HFH76-10	\$ 48,022.00	10-FLG	(7)-60"	60	99 3/4	3500	1181
6HFH86-12	6HFH86-12	\$ 53,460.00	12-FLG	(8)-60"	61	101 7/8	4000	1389
6HFH126-14	6HFH126-14	\$ 73,914.00	14-FLG	(12)-60"	64	109 3/4	6000	1834
6HFH156-16	6HFH156-16	\$ 88,048.00	16-FLG	(15)-60"	65	112 7/8	7500	2113
6HFH196-18	6HFH196-18	\$ 103,698.00	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

6HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

40" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI



ASME

Model	Part No.	List (\$)	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
6HFV14-3	6HFV14-3	\$ 6,444.00	3-FLG	(1)-40"	69 3/8	8	350	250
6HFV34-6	6HFV34-6	\$ 23,338.00	6-FLG	(3)-40"	94 1/4	16	1050	694
6HFV54-8	6HFV54-8	\$ 37,245.00	8-FLG	(5)-40"	106 1/4	20	1750	935
6HFV74-10	6HFV74-10	\$ 43,658.00	10-FLG	(7)-40"	115 1/4	22	2450	1106
6HFV84-10	6HFV84-10	\$ 46,787.00	10-FLG	(8)-40"	115 1/2	24	2800	1248
6HFV124-12	6HFV124-12	\$ 64,825.00	12-FLG	(12)-40"	129	30	4200	1672
6HFV154-14	6HFV154-14	\$ 76,130.00	14-FLG	(15)-40"	135	32	5250	1938
6HFV194-16	6HFV194-16	\$ 92,149.00	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

Hydro-pneumatic tanks are used to store potable water. When properly sized, these tanks are designed to maintain a potable water system within a specified pressure range. Typically used in **water well systems**, **pressure booster packages**, and **industrial water accumulation** applications.

SIZING HYDRO-PNEUMATIC TANKS

To properly size a hydro-pneumatic tank, four critical pieces of information are required:

- Pump Capacity (in gallons per minute)
- Minimum Required Pump Run-time (in minutes)
- Pump Cut-in Pressure (in psig)
- Pump Cut-out Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit www.westank.com/calculator to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

PUMP CAPACITY		GPM
MINIMUM RUN TIME		MIN.
CALCULATE REQUIRED STORAGE (ACCEPTANCE VOLUME) (PUMP CAP. X RUN TIME)		
		GAL.
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME (ACCEPTANCE VOLUME/AF)		
		GAL
SELECT MODEL		

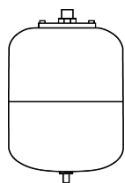
ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS
(FX, FXT, & FXA MODELS – **ONLY**)

PUMP CUT-OUT PRESSURE (PSIG)

	20	30	40	50	60	70	80	90	100	110	120
10	0.288	0.447	0.548	0.618	0.669	0.708	0.739	0.764	0.785	0.802	0.817
20		0.224	0.366	0.464	0.535	0.590	0.634	0.669	0.697	0.722	0.742
30			0.183	0.309	0.402	0.472	0.528	0.573	0.610	0.642	0.668
40				0.155	0.268	0.354	0.422	0.478	0.523	0.561	0.594
50					0.134	0.236	0.317	0.382	0.436	0.481	0.520
60						0.118	0.211	0.287	0.349	0.401	0.445
70							0.106	0.191	0.262	0.321	0.371
80								0.096	0.174	0.241	0.297
90									0.087	0.160	0.223
100										0.080	0.148
110											0.074



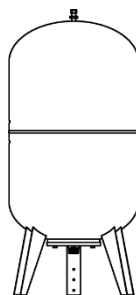
FX HYDRO-PNEUMATIC TANKS – Non-ASME



NON-ASME

REMOVABLE BLADDER TANK

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FX 8	30011008	\$ 134.00	2.1	2.1	8	13	3/4	7
FX 19	30011019	\$ 194.00	5.0	5.0	11	16	3/4	13
FX 24	30011024	\$ 299.00	6.3	6.3	14	13	3/4	15

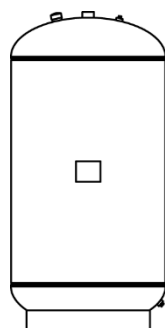


NON-ASME

FX 60V	30011060	\$ 458.00	16.0	16.0	15	34	1	39
FX 80V	30011080	\$ 575.00	21.0	21.0	18	34	1	49
FX 100V	30011100	\$ 768.00	26.0	26.0	18	38	1	61
FX 200V	30011200	\$ 1,187.00	52.0	52.0	22	49	1 1/2	112
FX 300V	30011300	\$ 1,486.00	80.0	80.0	25	55	1 1/2	141
FX 500V	30011500	\$ 2,814.00	132.0	132.0	31	61	1 1/2	265
FX 750V	30011700	\$ 3,537.00	198.0	198.0	31	79	1 1/2	330
FX 1000V	30011000	\$ 5,148.00	264.0	264.0	37	77	2	398
FX 2000V	30012000	\$ 10,329.00	528.0	528.0	50	84	2	835

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 200°F; Finish = Blue Powder Coat Exterior;
Factory Pre-charge = 30 PSIG

FXT HYDRO-PNEUMATIC TANKS – ASME



ASME

FIXED DIAPHRAGM TANK

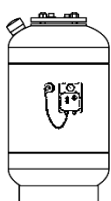
Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXT 400	21009999	\$ 1,187.00	8.0	6.3	12	20	3/4	34
FXT 401	21010000	\$ 1,656.00	15.0	11.9	16	23	1	64
FXT 402	21010005	\$ 2,102.00	25.0	19.8	16	33	1	84
FXT 403	21010010	\$ 2,192.00	35.0	27.5	16	45	1	97
FXT 404	21010015	\$ 3,094.00	70.0	55.5	24	46	1 1/2	259
FXT 405	21010020	\$ 3,306.00	90.0	71.0	24	52	1 1/2	283
FXT 415	21010025	\$ 3,417.00	115.0	91.0	24	66	1 1/2	325
FXT 440	21010030	\$ 3,946.00	140.0	111.0	24	78	1 1/2	362
FXT 460	21010032	\$ 4,730.00	160.0	127.0	30	61	1 1/2	591
FXT 480	21010034	\$ 5,667.00	210.0	166.0	30	79	1 1/2	752

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 200 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG

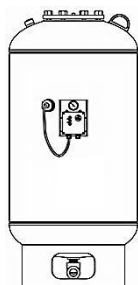


Smart Tank Series: FXA with WessGuard®

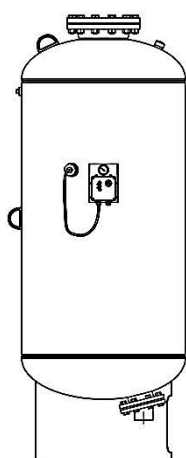
Smart Tank Series FXA-WG are ASME removable bladder type pre-charged hydro-pneumatic tanks with **WessGuard®** bladder monitor. They are designed to accept water between two set pressures, typically controlled by a pump switch, in pressure booster, water well, shock & surge, or other commercial & industrial systems where water must be stored in a corrosion protected reservoir. If the system creates a condition to extend the bladder beyond the normal movement, **WessGuard®** monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.



ASME



ASME



ASME

REMOVABLE BLADDER TANK – 125 PSI

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXA-35-WG	61010035	\$ 3,037.00	10	10	12	23 1/2	3/4	40
FXA-50-WG	61010050	\$ 3,253.00	13	13	14	24	3/4	50

FXA-85-WG	61010085	\$ 3,348.00	23	23	16	37	1	90
FXA-130-WG	61010130	\$ 3,699.00	35	35	20	37	1	125
FXA-200-WG	61010200	\$ 5,729.00	53	53	24	43	1 1/2	210
FXA-300-WG	61010300	\$ 5,991.00	79	79	24	55	1 1/2	225
FXA-400-WG	61010400	\$ 6,146.00	106	106	30	49	1 1/2	300
FXA-500-WG	61010500	\$ 6,358.00	132	132	30	57	2	335
FXA-600-WG	61010600	\$ 8,258.00	158	158	30	65	2	360
FXA-700-WG	61010700	\$ 8,381.00	185	185	30	80	1 1/2	600
FXA-800L-WG	61010805	\$ 9,391.00	211	211	32	76	2	475

FXA-1000-WG	61011000	\$ 11,564.00	264	264	36	74	3	735
FXA-1200-WG	61011200	\$ 12,225.00	317	317	36	86	3	745
FXA-1400-WG	61011400	\$ 12,891.00	370	370	36	99	3	900
FXA-1600-WG	61011600	\$ 16,124.00	422	422	48	72	3	1210
FXA-2000-WG	61012000	\$ 17,446.00	528	528	48	85	3	1305
FXA-2500-WG	61012500	\$ 19,685.00	660	660	48	102	4	1430
FXA-3000L-WG	61013000	\$ 21,705.00	792	792	48	122	4	1575
FXA-3000S-WG	61013001	\$ 28,239.00	792	792	60	80	4	2169
FXA-4000-WG	61014000	\$ 32,944.00	1056	1056	60	102	4	2638
FXA-5000-WG	61015000	\$ 42,095.00	1320	1320	60	125	4	3246
FXA-7500-WG	61017500	\$ 60,720.00	1980	1980	72	127	4	4080
FXA-10000-WG	61019999	\$ 75,847.00	2640	2640	72	159	4	4920
FXA-15000-WG	61010000	\$ 115,794.00	3963	3963	72	233	4	6000

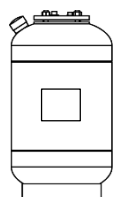
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts



FXA HYDRO-PNEUMATIC TANKS – ASME

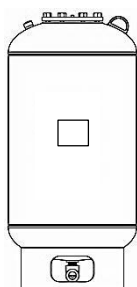
FOR STAINLESS STEEL &
EPOXY-LINED VERSIONS
GO TO PAGES 10.4 & 10.5



REMOVABLE BLADDER – 125 PSI

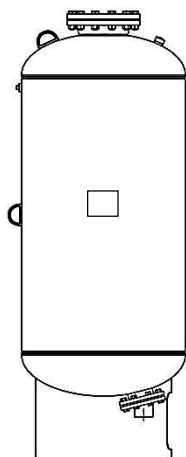
Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXA 35	21010035	\$ 2,392.00	10	10	12	23 1/2	3/4	40
FXA 50	21010050	\$ 2,606.00	13	13	14	24	3/4	50

ASME



FXA 85	21010085	\$ 2,701.00	23	23	16	37	1	90
FXA 130	21010130	\$ 2,896.00	35	35	20	37	1	125
FXA 200	21010200	\$ 4,906.00	53	53	24	43	1 1/2	210
FXA 300	21010300	\$ 5,012.00	79	79	24	55	1 1/2	225
FXA 400	21010400	\$ 5,164.00	106	106	30	49	1 1/2	300
FXA 500	21010500	\$ 5,375.00	132	132	30	57	2	330
FXA 600	21010600	\$ 7,254.00	158	158	30	65	2	360
FXA 700 ¹	21040715	\$ 7,630.00	185	185	30	80	1 1/2	600
FXA 800L	21010805	\$ 8,070.00	211	211	32	76	2	475

ASME



FXA 1000	21011000	\$ 10,224.00	264	264	36	87	3	735
FXA 1200	21011200	\$ 10,879.00	317	317	36	98 1/2	3	745
FXA 1400	21011400	\$ 11,536.00	370	370	36	110 1/2	3	900
FXA 1600	21011600	\$ 14,740.00	422	422	48	84	3	1210
FXA 2000	21012000	\$ 16,047.00	528	528	48	96	3	1305
FXA 2500	21012500	\$ 18,265.00	660	660	48	110	4	1430
FXA 3000L	21013000	\$ 19,961.00	792	792	48	133	4	1575
FXA 3000S	21013001	\$ 26,015.00	792	792	60	93	4	2169
FXA 4000	21014000	\$ 30,474.00	1056	1056	60	115	4	2638
FXA 5000	21015000	\$ 39,900.00	1320	1320	60	138	4	3246
FXA 7500	21017500	\$ 59,085.00	1980	1980	72	140	4	4080
FXA 10000	21019999	\$ 74,664.00	2640	2640	72	172	4	4920
FXA 15000	21500000	\$ 115,235.00	3963	3963	72	243	4	6000

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG

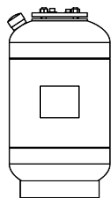
ASME

¹ – In stock at 200 psi rating



SINCE 1908
wessels
company

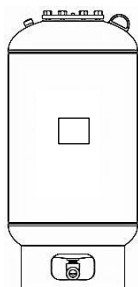
FXA-HP HYDRO-PNEUMATIC TANKS – ASME



REMOVABLE BLADDER – 200 PSI & 250 PSI

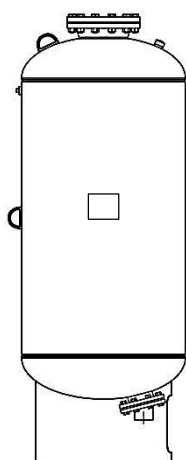
Model	Gal.	200 PSI			250 PSI		
		Part No.	List (\$)	Wt.(#)	Part No.	List (\$)	Wt.(#)
FXA-HP 35	10	21040035	\$ 3,347.00	52	21050035	\$ 3,870.00	53
FXA-HP 50	13	21040050	\$ 3,574.00	59	21050050	\$ 4,136.00	65

ASME



FXA-HP 85	23	21040085	\$ 3,720.00	95	21050085	\$ 4,291.00	105
FXA-HP 130	35	21040130	\$ 4,024.00	127	21050130	\$ 4,617.00	141
FXA-HP 200	53	21040200	\$ 6,875.00	194	21050200	\$ 7,983.00	220
FXA-HP 300	79	21040300	\$ 7,057.00	252	21050300	\$ 8,199.00	282
FXA-HP 400	106	21040400	\$ 7,271.00	336	21050400	\$ 8,446.00	410
FXA-HP 500	132	21040500	\$ 7,443.00	400	21050500	\$ 8,650.00	512
FXA-HP 600	158	21040600	\$ 7,704.00	419	21050600	\$ 9,017.00	569
FXA-HP 700 ¹	185	21040715	\$ 7,630.00	600	21050710	\$ 9,919.00	797
FXA-HP 800L	211	21040805	\$ 10,064.00	680	21050805	\$ 11,763.00	711

ASME



FXA-HP 1000	264	21041000	\$ 11,853.00	698	21051000	\$ 13,847.00	830
FXA-HP 1200	317	21041200	\$ 14,405.00	905	21051200	\$ 16,816.00	1118
FXA-HP 1400	370	21041400	\$ 15,373.00	1107	21051400	\$ 17,956.00	1330
FXA-HP 1600	422	21041600	\$ 18,193.00	1413	21051600	\$ 21,266.00	1713
FXA-HP 2000	528	21042000	\$ 20,936.00	1643	21052000	\$ 24,470.00	2026
FXA-HP 2500	660	21042500	\$ 22,877.00	1935	21052500	\$ 26,758.00	2352
FXA-HP 3000L	792	21043000	\$ 25,983.00	2198	21053000	\$ 30,404.00	2782
FXA-HP 3000S	792	21043001	\$ 31,579.00	2694	21053001	\$ 36,689.00	2965
FXA-HP 4000	1056	21044000	\$ 37,783.00	3291	21054000	\$ 44,168.00	3736
FXA-HP 5000	1320	21045000	\$ 49,471.00	3858	21055000	\$ 57,294.00	4485
FXA-HP 7500	1980	21047500	\$ 72,546.00	5491	21057500	\$ 84,343.00	6583
FXA-HP 10000	2640	21049999	\$ 92,520.00	6796	21059999	\$ 107,271.00	8068
FXA-HP 15000	3963	21040000	\$ 142,376.00	9814	21050000	\$ 165,811.00	12030

Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG; For vessel dimensions (diameter, height and system connection) refer to FXA price sheet or Submittal Data.

ASME

¹ – In stock at 200 psi rating



WESSGUARD® RETROFIT FOR FXA

The bladder-style hydro-pneumatic tank function is to store fluid, typically water in a water-well, shock/surge or pressure booster system. The properly sized hydro-pneumatic tank will store this water while limiting pressures based on the captured compressible air chamber size within the tank to the designer's acceptable limits.

The tank critical size is engineered to store the proper volume of water to minimize the daily pump starts/stops, lengthening the life expectancy of the system pumps and pump motors.

Factors that can affect the pump cycling in the system:

Properly sized hydro-pneumatic tank

Properly installed and pre-charge adjusted hydro-pneumatic tank

Pump switch pressure range (in conjunction to the pre-charge pressure)

Pump switch pressure range drift (over time)

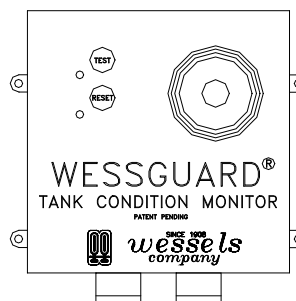
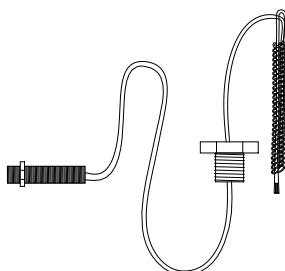
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure cycling. **WessGuard®** was developed to monitor the fluid within the hydro-pneumatic tank by determining excessive movement of the vessel bladder. **WessGuard®** incorporates a capacitive proximity sensor that determines if fluid levels in the hydro-pneumatic tank exceed "normal" operating conditions. Furthermore, if an expansion tank bladder is compromised, **WessGuard®** monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - FXA

Model	Part No.	List (\$)	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	\$ 1,075.00	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER



Specify Standard or WessGuard-2® with Phone Texting Alerts



SINCE 1908
wessels
company

FX REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
FX 8	0300008	\$ 55.00	NA	NA	0550008	\$126.00
FX 19	0300019	\$ 82.00	NA	NA	0550019	\$135.00
FX 24	0300024	\$ 86.00	NA	NA	0550024	\$142.00
FX 60V	0300060	\$ 239.00	0555060	\$170.00	0550060	\$142.00
FX 80V	0300080	\$ 255.00	0555080	\$170.00	0550080	\$142.00
FX 100V	0300100	\$ 427.00	0555100	\$170.00	0550100	\$142.00
FX 200V	0300200	\$ 649.00	0555200	\$202.00	0550200	\$180.00
FX 300V	0300300	\$ 814.00	0555300	\$202.00	0550300	\$180.00
FX 500V	0300500	\$ 1,544.00	0555500	\$236.00	0550500	\$198.00
FX 750V**	0300750	\$ 1,944.00	0555750	\$321.00	0550750	\$224.00
FX 1000V	0301000	\$ 2,153.00	0556000	\$321.00	0551000	\$224.00
FX 2000V	0302000	\$ 2,868.00	0557060	\$321.00	0552000	\$224.00

** FX-750V Replaces Model FX-700V Effective 5/98

FXA REPLACEMENT BLADDERS & COVERS

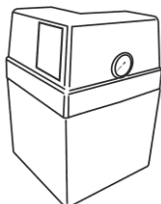
Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
FXA 35	02210035	\$ 358.00	NA	NA	0521035	\$ 261.00
FXA 50	02210050	\$ 587.00	NA	NA	0521050	\$ 261.00
FXA 85	02210085	\$ 840.00	0421085	\$ 318.00	0521085	\$ 387.00
FXA 130	02210130	\$ 1,069.00	0421130	\$ 318.00	0521130	\$ 387.00
FXA 200	02210200	\$ 1,244.00	0421200	\$ 320.00	0521200	\$ 434.00
FXA 300	02210300	\$ 1,503.00	0421300	\$ 320.00	0521300	\$ 567.00
FXA 400	02210400	\$ 1,758.00	0421400	\$ 320.00	0521400	\$ 567.00
FXA 500	02210500	\$ 2,277.00	0421500	\$ 422.00	0521500	\$ 571.00
FXA 600	02210600	\$ 2,919.00	0421600	\$ 422.00	0521600	\$ 571.00
FXA 700	02210700	\$ 3,612.00	0421700	\$ 719.00	0521700	\$ 117.00
FXA 700T*	02210705	\$ 2,042.00	0421800	\$ 422.00	0521800	\$ 571.00
FXA 800L	02210805	\$ 3,740.00	0421805	\$ 422.00	0521805	\$ 571.00
FXA 1000	02211000	\$ 3,817.00	0422000	\$ 854.00	0521810	\$ 812.00
FXA 1200	02211200	\$ 4,064.00	0422200	\$ 981.00	0521815	\$ 812.00
FXA 1400	02211400	\$ 4,344.00	0422400	\$ 981.00	0521820	\$ 812.00
FXA 1600	02211600	\$ 4,658.00	0422600	\$1,044.00	0521825	\$ 870.00
FXA 2000	02212000	\$ 4,852.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 2500	02212500	\$ 4,996.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 3000L	02213000	\$ 5,319.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 3000S	02213006	\$ 6,906.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 4000	02214000	\$ 8,067.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 5000	02215000	\$ 8,490.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 7500	02217500	\$ 12,710.00	0423000	\$1,044.00	0521830	\$ 870.00
FXA 10000	02219999	\$ 16,106.00	0423000	\$1,044.00	0521830	\$ 870.00

* FXA-700T Bladder is made of Heavy Duty Urethane



GLYMATIC & GMP GLYCOL MAKE-UP PACKAGES

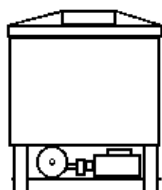
GLYMATIC – SINGLE SYSTEM PACKAGE



Model	Part No.	List (\$)	Solution Volume (gal)	Dimensions			Approx. Weight (lbs)
				Height (in)	Width (in)	Depth (in)	
GMP-6	07001006	\$ 1,317.00	6	17 1/2	12	12	16
GMP-18	07001018	\$ 1,487.00	18	39 1/4	12	12	25

Materials = Polyethylene solution tank, 110V, 60HZ Motor; Maximum Pressure = 60 PSIG discharge pressure; Maximum Temperature = 160°F; Factory Discharge Pressure Setting = 12 PSIG; Low level alarm available – Consult Factory

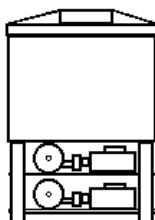
GMP – SINGLE SYSTEM PACKAGE



Model	Part No.	List (\$)	Pump hp	Solution Volume (gal)	Dimensions		Approx. Weight (lbs)
					Height (in)	Width (in)	
GMP-13050	07101052	\$ 5,870.00	1/3	50	42	28	90
GMP-13100	07101102	\$ 6,093.00	1/3	100	67	28	105
GMP-15050	07102052	\$ 6,376.00	1/2	50	42	28	95
GMP-15100	07102102	\$ 6,601.00	1/2	100	67	28	110

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

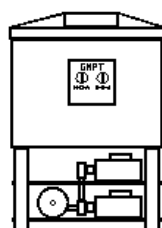
GMPD – TWO SEPARATE SYSTEMS/ ONE PACKAGE



Model	Part No.	List (\$)	Pump hp	Solution Volume (gal)	Dimensions		Approx. Weight (lbs)
					Height (in)	Width (in)	
GMPD-23050	07103152	\$ 9,629.00	1/3	50	55	28	153
GMPD-23100	07103155	\$ 9,861.00	1/3	100	78	28	166
GMPD-25050	07103160	\$ 10,550.00	1/2	50	55	28	153
GMPD-25100	07103165	\$ 10,781.00	1/2	100	78	28	166

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

GMPT – SINGLE SYSTEM/ TWIN PUMPS W/ALTERNATOR

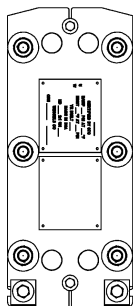


Model	Part No.	List (\$)	Pump hp	Solution Volume (gal)	Dimensions		Approx. Weight (lbs)
					Height (in)	Width (in)	
GMPT-33050	07103170	\$ 10,784.00	1/3	50	55	28	153
GMPT-33100	07103175	\$ 11,045.00	1/3	100	78	28	166
GMPT-35050	07103180	\$ 11,816.00	1/2	50	55	28	153
GMPT-35100	07103185	\$ 12,078.00	1/2	100	78	28	166

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG



WP WESPLATE AND FRAME – ASME – AHRI CERTIFIED



ASME

PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

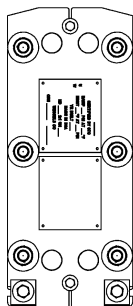
Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP11	WP12	WP22	WP23	WP24	WP30	WP42	WP43
6	\$1,920.00	\$2,305.00						
12	\$1,970.00	\$2,360.00	\$2,600.00	\$3,255.00	\$3,905.00	\$4,295.00		
18	\$2,210.00	\$2,650.00	\$2,670.00	\$3,340.00	\$4,010.00	\$4,405.00	\$6,130.00	\$6,130.00
24		\$2,940.00	\$2,855.00	\$3,570.00	\$4,280.00	\$4,710.00	\$6,320.00	\$6,320.00
36		\$3,225.00	\$3,225.00	\$4,030.00	\$4,840.00	\$5,320.00	\$6,515.00	\$6,515.00
48			\$4,535.00	\$5,675.00	\$6,810.00	\$7,490.00	\$6,765.00	\$6,765.00
60			\$4,860.00	\$6,075.00	\$7,290.00	\$8,015.00	\$6,985.00	\$6,985.00
72							\$7,200.00	\$7,200.00
84							\$7,840.00	\$7,840.00
96								
108								
120								
144								
168								
192								
216								
240								
SS Conn Add / ea	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$840.00	\$840.00	\$840.00
Ti Conn Add / ea	\$720.00	\$720.00	\$720.00	\$720.00	\$720.00	\$2,590.00	\$2,590.00	\$2,590.00
300 psi Add	\$1,030.00	\$1,656.00	\$1,680.00	\$1,704.00	\$1,800.00	\$1,990.00	\$3,430.00	\$3,430.00
Plate / Thk / Gask	Plates w/ gasket							
304.4.Epdm						\$40.00		\$56.00
304.5.Epdm						\$44.00	\$79.00	\$64.00
304.6.Epdm							\$87.00	\$72.00
316.4.Epdm			\$30.00	\$40.00	\$50.00	\$45.00		\$61.00
316.5.Epdm	\$21.00	\$30.00	\$34.00	\$47.00	\$57.00	\$51.00	\$92.00	\$72.00
316.6.Epdm			\$39.00	\$56.00	\$68.00		\$103.00	\$88.00
Ti.5.Epdm	\$44.00	\$66.00	\$75.00	\$112.00	\$139.00	\$111.00	\$206.00	\$190.00
304DW.8.Epdm								
316DW.8.Epdm	\$45.00	\$58.00	\$67.00	\$90.00	\$107.00	\$88.00		\$144.00

Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier



WP WESPLATE AND FRAME – ASME – AHRI (CONT'D)



ASME

PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP47	WP62	WP63	WP65	WP82	WP83	WP122	WP123
6								
12								
18	\$10,295.00							
24	\$10,435.00	\$10,885.00	\$13,610.00	\$15,650.00	\$22,085.00	\$25,990.00		
36	\$10,600.00	\$11,280.00	\$14,100.00	\$16,215.00	\$23,085.00	\$27,160.00	\$23,930.00	\$29,920.00
48	\$10,900.00	\$11,880.00	\$14,850.00	\$17,080.00	\$24,115.00	\$28,370.00	\$24,660.00	\$30,830.00
60	\$11,180.00	\$12,475.00	\$15,595.00	\$17,930.00	\$25,125.00	\$29,560.00	\$25,390.00	\$31,740.00
72	\$14,765.00	\$12,760.00	\$15,950.00	\$18,340.00	\$26,155.00	\$30,770.00	\$26,190.00	\$32,735.00
84	\$15,095.00	\$13,045.00	\$16,310.00	\$18,755.00		\$31,295.00	\$27,005.00	\$33,760.00
96	\$15,870.00	\$15,590.00	\$19,480.00	\$22,410.00		\$31,795.00	\$27,865.00	\$34,835.00
108	\$16,640.00	\$16,695.00	\$20,865.00	\$23,995.00		\$32,480.00	\$29,740.00	\$37,175.00
120	\$0.00	\$17,240.00	\$21,550.00	\$24,790.00		\$33,145.00	\$30,780.00	\$38,470.00
144			\$22,030.00	\$25,335.00		\$34,280.00	\$31,795.00	\$39,745.00
168			\$22,770.00	\$26,185.00		\$35,410.00	\$33,560.00	\$41,950.00
192			\$24,535.00	\$28,215.00		\$37,675.00	\$35,305.00	\$44,130.00
216			\$27,240.00	\$31,325.00		\$38,810.00	\$36,585.00	\$45,735.00
240			\$29,940.00	\$34,435.00		\$39,935.00	\$37,860.00	\$47,335.00
SS Conn Add / ea	\$840.00		\$1,390.00			\$1,535.00	\$2,090.00	\$2,090.00
Ti Conn Add / ea	\$2,590.00		\$4,175.00			\$4,610.00	\$6,265.00	\$6,265.00
300 psi Add	\$5,855.00		\$8,590.00			\$14,450.00	\$20,230.00	\$20,230.00
Plate / Thk / Gask	Plates w/ gasket							
304.4.Epdm	\$79.00	\$93.00	\$108.00		\$132.00			
304.5.Epdm	\$91.00	\$95.00	\$123.00	\$153.00	\$135.00	\$172.00	\$260.00	\$335.00
304.6.Epdm	\$117.00	\$120.00	\$156.00	\$195.00	\$175.00	\$224.00	\$333.00	\$433.00
316.4.Epdm	\$95.00	\$99.00	\$128.00		\$141.00			
316.5.Epdm	\$111.00	\$114.00	\$148.00	\$185.00	\$166.00	\$211.00	\$299.00	\$387.00
316.6.Epdm	\$145.00	\$186.00	\$193.00	\$241.00	\$219.00	\$280.00	\$339.00	\$441.00
Ti.5.Epdm	\$322.00	\$316.00	\$423.00	\$533.00	\$493.00	\$634.00	\$850.00	\$1,120.00
304DW.8.Epdm								
316DW.8.Epdm	\$225.00							

Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier

Request access to WesPlate Sizing at wesplatesizing.westank.com for more precise quotation.



WB WESPAC BRAZED PLATE – Non-ASME

BRAZED PLATE HEAT EXCHANGER



NON-ASME

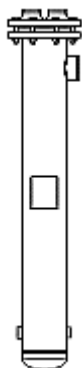
Model		WB01			WB10		
	# plates	Price	Part Number	Lbs.	Price	Part Number	Lbs.
Standard	10	\$190.00	52801010	3	\$320.00	52810010	8
Construction;	20	\$280.00	52801020	4	\$480.00	52810020	11
Plate Material:	30	\$365.00	52801030	5	\$645.00	52810030	14
316SS	40	\$430.00	52801040	6	\$775.00	52810040	17
Connections:	50	\$490.00	52801050	8	\$900.00	52810050	20
304SS NPT	60	\$550.00	52801060	9	\$1,025.00	52810060	23
Braze Material:	70				\$1,140.00	52810070	26
Copper	80				\$1,260.00	52810080	29
Design Pressure:	90				\$1,380.00	52810090	32
450 psi	100				\$1,495.00	52810100	35
Design Temp:		WB11			WB15D (Double Wall)		
385°F	10	\$500.00	52811010	12	\$670.00	52815010	8
Certification:	20	\$745.00	52811020	17	\$940.00	52815020	11
Non-ASME	30	\$995.00	52811030	22	\$1,215.00	52815030	14
Connection Sizes;	40	\$1,190.00	52811040	27	\$1,485.00	52815040	17
WB01: 3/4"	50	\$1,400.00	52811050	32	\$1,755.00	52815050	20
WB10: 1"	60	\$1,590.00	52811060	37	\$2,045.00	52815060	23
WB11: 1"	70	\$1,775.00	52811070	42	\$2,300.00	52815070	26
WB15D: 1"	80	\$1,995.00	52811080	47	\$2,560.00	52815080	29
WB20: 2"	90	\$2,175.00	52811090	52	\$2,820.00	52815090	32
	100	\$2,360.00	52811100	57	\$3,080.00	52815100	35
	110	\$2,540.00	52811110	62			
	120	\$2,720.00	52811120	67			
		WB20					
	10	\$910.00	52820010	33			
	20	\$1,330.00	52820020	43			
	30	\$1,760.00	52820030	55			
	40	\$2,135.00	52820040	65			
	50	\$2,560.00	52820050	76			
	60	\$2,935.00	52820060	87			
	70	\$3,300.00	52820070	99			
	80	\$3,755.00	52820080	110			
	90	\$4,120.00	52820090	122			
	100	\$4,480.00	52820100	133			
	110	\$4,845.00	52820110	145			
	120	\$5,205.00	52820120	156			
	130	\$5,570.00	52820130	168			
	140	\$5,930.00	52820140	179			

Consult factory for more options.



WST WESTUBE - ASME

U-TUBE HEAT EXCHANGER – STEAM IN SHELL

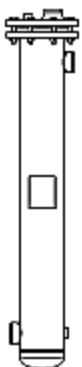


ASME

Base Price	Tube	Unit Diameter						
Description	Length	4	6	8	10	12	14	16
Standard	2	\$1,850.00	\$2,545.00	\$4,065.00				
Construction;	3	\$2,045.00	\$3,010.00	\$4,780.00	\$6,300.00	\$8,400.00	\$11,425.00	\$13,870.00
Tubes 3/4" OD	4	\$2,245.00	\$3,380.00	\$5,575.00	\$7,455.00	\$9,535.00	\$14,090.00	\$16,340.00
Copper 20 BWG	5	\$2,445.00	\$3,645.00	\$6,185.00	\$8,610.00	\$11,240.00	\$16,325.00	\$18,705.00
Cast iron heads	6	\$2,645.00	\$4,230.00	\$6,970.00	\$9,705.00	\$13,365.00	\$18,225.00	\$21,175.00
Steel tubesheets	7	\$2,845.00	\$4,630.00	\$7,865.00	\$11,125.00	\$14,440.00	\$19,585.00	\$23,645.00
Steel shell	8	\$3,030.00	\$4,985.00	\$8,640.00	\$12,525.00	\$16,140.00	\$21,885.00	\$26,005.00
Steel baffles	9	\$3,230.00	\$5,500.00	\$9,095.00	\$13,635.00	\$17,760.00	\$24,070.00	\$28,585.00
Two(2) gaskets	10	\$3,560.00	\$5,780.00	\$9,750.00	\$14,855.00	\$19,300.00	\$26,155.00	\$31,055.00
2 or 4 pass only	11		\$6,025.00	\$10,360.00	\$16,165.00	\$20,775.00	\$28,140.00	\$33,525.00
ASME stamped	12		\$6,795.00	\$11,140.00	\$16,815.00	\$22,425.00	\$29,945.00	\$35,995.00
150 psi design	13			\$11,670.00	\$17,810.00	\$23,780.00	\$31,990.00	\$38,465.00
	14			\$13,145.00	\$18,760.00	\$25,075.00	\$33,970.00	\$40,830.00
	15				\$19,750.00	\$26,380.00	\$36,080.00	\$43,300.00
Support Feet	Steel	\$375.00	\$440.00	\$520.00	\$615.00	\$730.00	\$855.00	\$1,010.00
Weight Base	Lbs	30	80	140	220	280	335	450
Add Weight / FT	Lbs / Ft	15	30	40	60	105	120	150

WWT WESTUBE - ASME

U-TUBE HEAT EXCHANGER – WATER TO WATER



ASME

Standard	2	\$1,890.00	\$2,595.00	\$4,145.00				
Construction;	3	\$2,085.00	\$3,070.20	\$4,875.00	\$6,425.00	\$8,570.00	\$11,655.00	\$14,145.00
Tubes 3/4" OD	4	\$2,289.90	\$3,450.00	\$5,690.00	\$7,605.00	\$9,725.00	\$14,370.00	\$16,665.00
Copper 20 BWG	5	\$2,495.00	\$3,720.00	\$6,310.00	\$8,780.00	\$11,464.80	\$16,650.00	\$19,080.00
Cast iron heads	6	\$2,700.00	\$4,314.60	\$7,110.00	\$9,900.00	\$13,630.00	\$18,589.50	\$21,600.00
Steel tubesheets	7	\$2,900.00	\$4,725.00	\$8,020.00	\$11,350.00	\$14,730.00	\$19,975.00	\$24,120.00
Steel shell	8	\$3,090.00	\$5,084.70	\$8,815.00	\$12,775.00	\$16,465.00	\$22,325.00	\$26,525.10
Steel baffles	9	\$3,294.60	\$5,610.00	\$9,275.00	\$13,910.00	\$18,115.20	\$24,550.00	\$29,155.00
Two(2) gaskets	10	\$3,630.00	\$5,895.00	\$9,945.00	\$15,150.00	\$19,685.00	\$26,680.00	\$31,675.00
2 or 4 pass only	11		\$6,145.00	\$10,570.00	\$16,490.00	\$21,190.00	\$28,705.00	\$34,195.00
ASME stamped	12		\$6,930.00	\$11,365.00	\$17,150.00	\$22,875.00	\$30,545.00	\$36,714.90
150 psi design	13			\$11,905.00	\$18,165.00	\$24,255.00	\$32,629.80	\$39,235.00
	14			\$13,410.00	\$19,135.20	\$25,575.00	\$34,650.00	\$41,645.00
	15				\$20,145.00	\$26,910.00	\$36,800.00	\$44,165.00
Support Feet	Steel	\$375.00	\$440.00	\$520.00	\$615.00	\$730.00	\$855.00	\$1,010.00
Weight Base	Lbs	30	80	140	220	280	335	450
Add Weight / FT	Lbs	15	30	40	60	105	120	150
Baffle Spacing	Inches	4	3	4	5	6	7	8

CPFT CHEMICAL POT FEEDER TANKS – Non-ASME



CHEMICAL FEED TANKS

Model	Part No.	List (\$)	Gal.	Dia.	Ht.	Funnel Size	System Tappings	Wt. (Lbs.)
CPFT-2	78880002	\$ 644.00	2	6	19-7/8	8	3/4	30
CPFT-5	78880005	\$ 837.00	5	10	19-3/4	12	3/4	37

Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F;
Finish = Red Oxide Primer

NON-ASME

CPFTA CHEMICAL POT FEEDER TANKS – ASME



CHEMICAL FEED TANKS - ASME

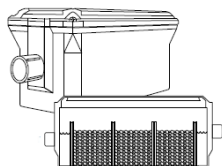
Model	Part No.	List (\$)	Gal.	Dia.	Ht.	Funnel Size	System Tappings	Wt. (Lbs.)
CPFTA-2	78880022	\$ 775.00	2	6	19	6	3/4	30
CPFTA-5	78880055	\$1,009.00	5	10	19-3/4	10	3/4	49

Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F;
Finish = Red Oxide Primer

ASME

WCN CONDENSATE NEUTRALIZERS

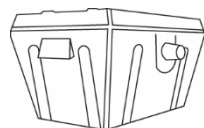
WCN-1 CONDENSATE NEUTRALIZER



Model	Part No.	List (\$)	Dimensions (in.)			Ship Wt. (lbs.)
			Length	Width	Height	
WCN-1	33030000	\$ 118.00	12	4 3/4	5 1/2	4
MEDIA BAG	33030100	\$ 39.00	4	3	4	1.4
FLEX HOSE	33030200	\$ 21.00	120	1/2 DIA	1/2 DIA	0.5
WALL BRKT.	33030300	\$ 16.00	4 1/2	1	4	0.1

WCN-1 includes one (1) MEDIA BAG for up to 525,000 BTU/hr. Includes two compartments for two (2) additional media bags for up to 1.575 million BTU/hr. FLEXHOSE includes barb fittings. WALL BRACKETS includes two (2) for wall mounting (if required)

WCN-2 CONDENSATE NEUTRALIZER



Model	Part No.	List (\$)	Dimensions (in.)			Ship Wt. (lbs.)
			Length	Width	Height	
WCN-2	33030101	\$ 525.00	16.25	10 1/2	7 1/2	17
WCN-2 MEDIA	33032100	\$ 191.00	5	10	6	10

WCN-2 includes MEDIA for up to 3,5 million BTU/hr. The WCN-2 can be connected to two (2) additional WCN-2 units for up to 10.5 million BTU/hr.

Expansion tanks are used to absorb the additional volume of water created during thermal expansion of system fluid, maintaining critical system pressures below safety relief valve settings. Wessels carries industry's broadest line of ASME and non-ASME tanks. Typically used in **closed-loop hydronic heating, chilled water and industrial process** piping systems.

SIZING EXPANSION TANKS

To properly size an expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons)
- Minimum System Temperature (in degrees F)
- Maximum System Temperature (in degrees F)
- Minimum System Pressure (in psig)
- Maximum System Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit www.westank.com/calculator to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

SYSTEM VOLUME		GAL.
EXPANSION FACTOR		
CALCULATE ACCEPTANCE VOLUME (SYS. VOL. X EXP. FACTOR)		
		GAL.
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME (ACC. VOL./AF)		
		GAL.
SELECT MODEL		

EXPANSION FACTOR TABLE – WATER ONLY

		MIN. SYSTEM TEMPERATURE (DEG. F)						
		40	50	60	70	80	90	100
MAX. SYSTEM TEMPERATURE (DEG. F)	50	0.00006						
	60	0.00055	0.00049					
	70	0.00149	0.00143	0.00094				
	80	0.00260	0.00254	0.00205	0.00111			
	90	0.00405	0.00399	0.00350	0.00256	0.00145		
	100	0.00575	0.00569	0.00520	0.00426	0.00315	0.00170	
	110	0.00771	0.00765	0.00716	0.00622	0.00511	0.00366	0.00196
	120	0.01004	0.00998	0.00949	0.00855	0.00744	0.00596	0.00429
	130	0.01236	0.01230	0.01181	0.01087	0.00976	0.00831	0.00661
	140	0.01501	0.01495	0.01446	0.01352	0.01241	0.01096	0.00926
	150	0.01787	0.01779	0.01730	0.01636	0.01525	0.01377	0.01210
	160	0.02092	0.02086	0.02037	0.01943	0.01814	0.01667	0.01508
	170	0.02418	0.02412	0.02363	0.02269	0.02158	0.02013	0.01843
	180	0.02763	0.02757	0.02708	0.02614	0.02503	0.02358	0.02188
	190	0.03127	0.03121	0.03072	0.02978	0.02867	0.02722	0.02552
	200	0.03510	0.03504	0.03455	0.03361	0.03250	0.03105	0.02935
	210	0.03911	0.03905	0.03856	0.03762	0.03651	0.03506	0.03336
	220	0.04335	0.04329	0.04280	0.04186	0.04075	0.03930	0.03760
	230	0.04762	0.04756	0.04707	0.04613	0.04502	0.04357	0.04187
	240	0.05220	0.05214	0.05165	0.05071	0.04960	0.04815	0.04645

ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS
(N-SERIES,NL, NTA, NLA, NLAP & NVA MODELS – ONLY)

		MAX. SYS. PRESSURE (PSIG)						
		30	40	50	60	70	80	100
MIN. SYS. PRESSURE (PSIG)	10	0.447	0.548	0.618	0.669	0.708	0.739	0.764
	12	0.403	0.512	0.587	0.643	0.685	0.718	0.745
	20	0.224	0.366	0.464	0.535	0.590	0.634	0.669
	30		0.183	0.309	0.402	0.472	0.528	0.573
	40			0.155	0.268	0.354	0.422	0.478
	50				0.134	0.236	0.317	0.382
	60					0.118	0.211	0.287
	70						0.106	0.191
	80							0.096
	90							0.087

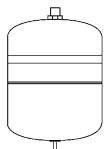
ACCEPTANCE FACTOR FOR ATMOSPHERIC TANKS
(NA-SERIES & NAG-SERIES – ONLY)

		MAX. SYS. PRESSURE (PSIG)						
		30	40	50	60	70	80	100
MIN. SYS. PRESSURE (PSIG)	10	0.266	0.326	0.368	0.398	0.422	0.440	0.455
	12	0.222	0.282	0.323	0.354	0.377	0.395	0.410
	20	0.095	0.155	0.196	0.227	0.250	0.268	0.283
	30		0.060	0.102	0.132	0.155	0.174	0.188
	40			0.042	0.072	0.095	0.114	0.128
	50				0.030	0.054	0.072	0.087
	60					0.023	0.042	0.056
	70						0.018	0.033
	80							0.015
	90							0.012



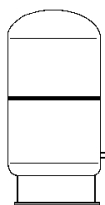
N EXPANSION TANKS – Non-ASME

FIXED DIAPHRAGM TANK



NON-ASME

Model	Part No.	List (\$)	Gal.	Dia.	Height	Syst. Conn.	Wt. (Lbs.)
N-15	33010015	\$ 64.00	2.1	7.9	10.8	1/2	5
N-30	33010030	\$ 82.00	4.8	10.6	13.7	1/2	9
N-60	33010060	\$ 161.00	6.3	11.8	15.4	1/2	14
N-90	33010090	\$ 223.00	13.2	15.0	21.1	1/2	23



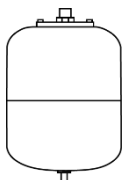
NON-ASME

N-40V	33010140	\$ 309.00	21.2	17.7	23.6	1	33
N-60V	33010160	\$ 507.00	39.7	19.7	35.2	1	60
N-90V	33010190	\$ 772.00	52.9	23.6	33.9	1	81
N-110V	33011110	\$ 932.00	66.1	24.8	38.2	1	90
N-160V	33011260	\$ 994.00	79.4	24.8	44.7	1	106

Materials = Steel Shell, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F;
Finish = Silver Powder Coat Exterior; Factory Pre-charge = 12 PSIG

NL EXPANSION TANKS – Non-ASME

REMOVABLE BLADDER TANK



NON-ASME

Model	Part No.	List (\$)	Gal.	Dia.	Height	Syst. Conn.	Wt. (Lbs.)
NL-15	32051008	\$ 84.00	2.1	7.9	12.9	3/4	6
NL-20	32051012	\$ 91.00	3.2	10.6	11.8	3/4	7
NL-30	32051018	\$ 103.00	4.8	10.6	16.2	3/4	9
NL-60	32051025	\$ 202.00	6.6	11.4	19.7	3/4	12



NON-ASME

NL-80L	32051035	\$ 245.00	10.6	12.6	22.5	1	22
NL-90L	32051050	\$ 314.00	15.8	15.0	28.7	1	31
NL-40VL	32051080	\$ 385.00	21.1	17.7	28.9	1	35
NL-60VL	32051105	\$ 464.00	26.4	17.7	31.1	1	45
NL-90VL	32051200	\$ 851.00	52.8	21.6	42.5	1 1/2	84
NL-110VL	32051300	\$ 1,012.00	79.2	24.8	46.3	1 1/2	111
NL-160VL	32051500	\$ 1,809.00	132.1	30.7	50.5	1 1/2	217

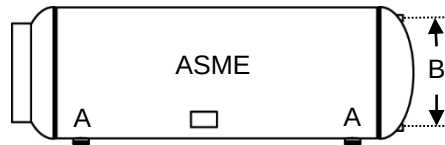
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Red Powder Coat Exterior; Factory Pre-charge = 12 PSIG

N EXPANSION TANKS

8

NA STEEL COMPRESSION TANKS – ASME

FOR STAINLESS
STEEL VERSIONS GO
TO PAGE 10.2



PAINTED PLAIN STEEL

Model	Part No.	List (\$)	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)	Saddle Price (Pair)	Saddle Wt. (lbs.)
12NA33	23012033	\$ 497.00	15	12	33	1"	8	44	\$ 301.00	12
12NA51	23012051	\$ 507.00	24	12	51	1"	8	62	\$ 301.00	12
14NA48	23014048	\$ 580.00	30	14	48	1"	10	72	\$ 308.00	15
14NA63	23014063	\$ 649.00	40	14	63	1"	10	92	\$ 308.00	15
16NA72	23016072	\$ 733.00	60	16	72	1"	12	120	\$ 321.00	21
20NA62	23020062	\$ 803.00	80	20	62 1/2	1"	16	136	\$ 328.00	29
20NA78	23020078	\$ 1,042.00	100	20	78	1"	16	168	\$ 328.00	29
24NA65	23024065	\$ 1,116.00	120	24	65	1"	20	218	\$ 361.00	35
24NA72	23024072	\$ 1,161.00	135	24	72	1"	20	238	\$ 361.00	35
30NA62	23030062	\$ 1,718.00	175	30	62 1/2	1-1/2"	22	338	\$ 486.00	49
30NA77	23030077	\$ 1,932.00	220	30	77	1-1/2"	22	368	\$ 486.00	49
30NA84	23030084	\$ 2,201.00	240	30	84	1-1/2"	22	394	\$ 486.00	49
30NA105	23030105	\$ 3,203.00	305	30	105 3/4	1-1/2"	22	486	\$ 486.00	49
36NA72	23036072	\$ 3,805.00	295	36	72	1-1/2"	28	502	\$ 541.00	57
36NA93	23036093	\$ 3,870.00	400	36	92 1/2	1-1/2"	28	645	\$ 541.00	57
36NA120	23036120	\$ 4,752.00	505	36	120	1-1/2"	28	810	\$ 541.00	57
42NA96	23042096	\$ 6,843.00	525	42	96	1-1/2"	28	895	\$ 1,046.00	88

GALVANIZED STEEL

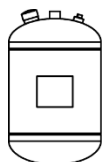
Model	Part No.	List (\$)	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)	Saddle Price (Pair)	Saddle Wt. (lbs.)
12NAG33	16012033	\$ 1,191.00	15	12	33	1"	8	49	\$ 301.00	12
12NAG51	16012051	\$ 1,283.00	24	12	51	1"	8	69	\$ 301.00	12
14NAG48	16014048	\$ 1,505.00	30	14	48	1"	10	80	\$ 308.00	15
14NAG63	16014063	\$ 1,761.00	40	14	63	1"	10	102	\$ 308.00	15
16NAG72	16016072	\$ 1,993.00	60	16	72	1"	12	134	\$ 321.00	21
20NAG62	16020062	\$ 2,270.00	80	20	62 1/2	1"	16	151	\$ 328.00	29
20NAG78	16020078	\$ 2,787.00	100	20	78	1"	16	187	\$ 328.00	29
24NAG65	16024065	\$ 3,254.00	120	24	65	1"	20	238	\$ 361.00	35
24NAG72	16024072	\$ 3,465.00	135	24	72	1"	20	258	\$ 361.00	35
30NAG62	16030062	\$ 4,516.00	175	30	62 1/2	1-1/2"	22	361	\$ 486.00	49
30NAG77	16030077	\$ 5,184.00	220	30	77	1-1/2"	22	396	\$ 486.00	49
30NAG84	16030084	\$ 5,410.00	240	30	84	1-1/2"	22	424	\$ 486.00	49
30NAG105	16030105	\$ 7,300.00	305	30	105 3/4	1-1/2"	22	523	\$ 486.00	49
36NAG72	16036072	\$ 7,585.00	295	36	72	1-1/2"	28	540	\$ 541.00	57
36NAG93	16036093	\$ 8,753.00	400	36	92 1/2	1-1/2"	28	686	\$ 541.00	57
36NAG120	16036120	\$ 10,515.00	505	36	120	1-1/2"	28	844	\$ 541.00	57
42NAG96	16042096	\$ 13,140.00	525	42	96	1-1/2"	28	928	\$ 1,046.00	88

Materials = Steel; Maximum Pressure = 150 PSIG for 12NA33(12NAG33) to 20NA78(16NAG72) and 125 PSIG for all other models; Maximum Temperature = 450°F; Finish = Primer for NA & Galvanized Steel Interior & Exterior for NAG; Gauge glass tapings are 1/2" NPT; Base stands included on all models except 36NA120 & 42NA96 and 30NAG105 thru 42NAG96.



SINCE 1908
wessels
company

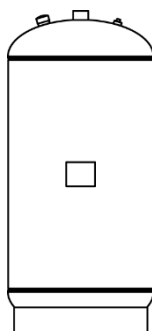
NTA EXPANSION TANKS – ASME



FIXED DIAPHRAGM TANK

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NTA-15	19010015	\$ 778.00	7.8	6.3	12	19	3/4	42
NTA-20	19010020	\$ 802.00	11.0	8.8	12	25	3/4	52

ASME



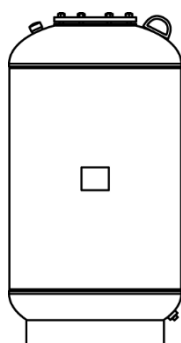
ASME

NTA-40	19010040	\$ 1,250.00	25.0	20.2	16	33	1	84
NTA-60	19010060	\$ 1,403.00	35.0	28.0	16	44	1	97
NTA-80	19010080	\$ 1,862.00	45.0	36.0	20	38	1	148
NTA-100	19010100	\$ 1,948.00	60.0	48.5	20	49	1	175
NTA-120	19010120	\$ 2,369.00	70.0	56.5	24	46	1 1/2	259
NTA-144	19010144	\$ 2,538.00	80.0	65.0	24	49	1 1/2	268
NTA-180	19010180	\$ 2,910.00	90.0	73.0	24	52	1 1/2	283
NTA-200	19010200	\$ 2,989.00	115.0	93.0	24	66	1 1/2	325
NTA-240	19010240	\$ 3,479.00	140.0	113.5	24	78	1 1/2	362
NTA-260	19010260	\$ 4,169.00	158.0	128.0	30	63	1 1/2	591
NTA-280	19010280	\$ 4,805.00	211.0	171.0	30	81	1 1/2	752

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG for NTA-15 through NTA-60; All Others 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG

NLAP EXPANSION TANKS: TOP CONNECTION – ASME

REMOVABLE BLADDER TANK



ASME

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLAP-40	22510040	\$ 2,078.00	11.0	11.0	12	27	3/4	42
NLAP-60	22510060	\$ 2,269.00	15.0	15.0	14	26	3/4	52
NLAP-100	22510100	\$ 2,455.00	25.0	25.0	16	32	1	77
NLAP-150	22510150	\$ 2,551.00	39.0	34.0	16	48 1/2	1	115
NLAP-220	22510220	\$ 3,111.00	58.0	53.0	20	48 1/2	1 1/2	170
NLAP-325	22510325	\$ 3,459.00	85.0	85.0	24	50 1/2	1 1/2	225
NLAP-400	22510400	\$ 3,493.00	104.0	104.0	24	57 1/2	1 1/2	250
NLAP-560	22510560	\$ 3,753.00	147.0	147.0	30	53	1 1/2	325
NLAP-600	22510600	\$ 5,241.00	158.0	158.0	30	58	1 1/2	350
NLAP-700	22510700	\$ 5,675.00	185.0	185.0	30	66	1 1/2	400
NLAP-815	22510815	\$ 6,199.00	215.0	215.0	36	58	1 1/2	475
NLAP-950	22510950	\$ 7,447.00	250.0	250.0	36	66	1 1/2	540
NLAP-1100	22511100	\$ 7,784.00	290.0	290.0	36	75	1 1/2	625

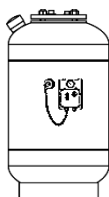
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG



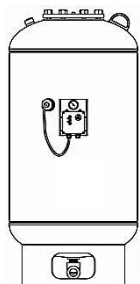
Smart Tank Series: NLA with WessGuard®

Smart Tank Series NLA-WG are ASME removable bladder type pre-charged expansion tanks with **WessGuard®** bladder monitor. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and water logging problems. If the system creates a condition to extend the bladder beyond the normal movement, **WessGuard®** monitor will activate an audible and LED alarm to notify maintenance staff of this potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.

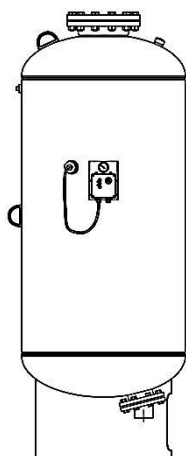
REMOVABLE BLADDER TANK – 125 PSI



ASME



ASME



ASME

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLA-35-WG	62010035	\$ 3,047.00	10	10	12	23 1/2	3/4	40
NLA-50-WG	62010050	\$ 3,212.00	13	13	14	24	3/4	50

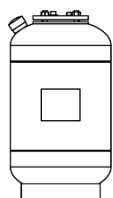
NLA-85-WG	62010085	\$ 3,317.00	23	23	16	37	1	90
NLA-130-WG	62010130	\$ 3,669.00	35	35	20	37	1	125
NLA-200-WG	62010200	\$ 4,144.00	53	53	24	43	1 1/2	210
NLA-300-WG	62010300	\$ 4,619.00	79	79	24	55	1 1/2	225
NLA-400-WG	62010400	\$ 4,702.00	106	106	30	49	1 1/2	300
NLA-500-WG	62010500	\$ 5,008.00	132	132	30	57	1 1/2	335
NLA-600-WG	62010600	\$ 6,820.00	158	158	30	65	1 1/2	360
NLA-800L-WG	62010805	\$ 7,912.00	211	211	32	76	1 1/2	475

NLA-1000-WG	62011000	\$ 9,263.00	264	264	36	75	1 1/2	710
NLA-1200-WG	62011200	\$ 9,655.00	317	317	36	87	1 1/2	720
NLA-1400-WG	62011400	\$ 10,389.00	370	370	36	99	1 1/2	875
NLA-1600-WG	62011600	\$ 13,840.00	422	422	48	74	1 1/2	1100
NLA-2000-WG	62012000	\$ 15,054.00	528	528	48	87	1 1/2	1280
NLA-2500-WG	62012500	\$ 17,255.00	660	660	48	102	2	1435
NLA-3000L-WG	62013000	\$ 21,417.00	792	792	48	122	2	1550
NLA-3000S-WG	62013001	\$ 27,096.00	792	792	60	80	2	2169
NLA-4000-WG	62014000	\$ 32,611.00	1056	1056	60	102	2	2638
NLA-5000-WG	62015000	\$ 41,232.00	1320	1320	60	125	2	3246
NLA-7500-WG	62017500	\$ 59,708.00	1980	1980	72	127	3	4005
NLA-10000-WG	62019999	\$ 76,183.00	2640	2640	72	163	3	4845
NLA-15000-WG	62010000	\$ 115,126.00	3963	3963	72	233	3	5925

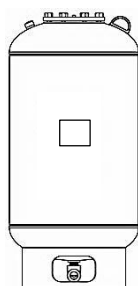
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts

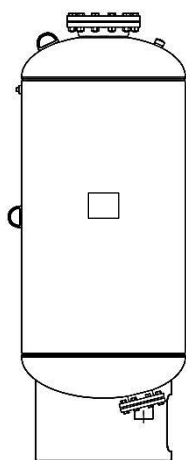
NLA EXPANSION TANKS – ASME



ASME



ASME



ASME

REMOVABLE BLADDER TANK – 125 PSI

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLA-35	22010035	\$ 2,346.00	10	10	12	25	3/4	40
NLA-50	22010050	\$ 2,508.00	13	13	14	25	3/4	50

NLA-85	22010085	\$ 2,607.00	23	23	16	37	1	90
NLA-130	22010130	\$ 2,797.00	35	35	20	37	1	125
NLA-200	22010200	\$ 3,259.00	53	53	24	43	1 1/2	210
NLA-300	22010300	\$ 3,566.00	79	79	24	55	1 1/2	225
NLA-400	22010400	\$ 3,648.00	106	106	30	49	1 1/2	300
NLA-500	22010500	\$ 3,945.00	132	132	30	57	1 1/2	335
NLA-600	22010600	\$ 5,705.00	158	158	30	65	1 1/2	360
NLA-800L	22010805	\$ 6,459.00	211	211	32	76	1 1/2	475

NLA-1000	22011000	\$ 7,773.00	264	264	36	74	1 1/2	710
NLA-1200	22011200	\$ 8,152.00	317	317	36	86	1 1/2	720
NLA-1400	22011400	\$ 8,866.00	370	370	36	99	1 1/2	875
NLA-1600	22011600	\$ 12,221.00	422	422	48	72	1 1/2	1100
NLA-2000	22012000	\$ 13,400.00	528	528	48	85	1 1/2	1280
NLA-2500	22012500	\$ 15,539.00	660	660	48	102	2	1435
NLA-3000L	22013000	\$ 19,343.00	792	792	48	122	2	1550
NLA-3000S	22013001	\$ 25,081.00	792	792	60	80	2	2169
NLA-4000	22014000	\$ 30,079.00	1056	1056	60	102	2	2638
NLA-5000	22015000	\$ 38,794.00	1320	1320	60	125	2	3246
NLA-7500	22017500	\$ 57,469.00	1980	1980	72	127	3	4005
NLA-10000	22019999	\$ 73,544.00	2640	2640	72	159	3	4845
NLA-15000	22019998	\$ 112,904.00	3963	3963	72	233	3	5925

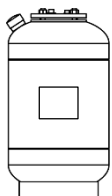
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG

For Sight Glass - Add \$145.00 to List (\$)

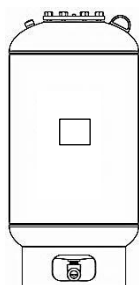


NLA-HP EXPANSION TANKS – ASME

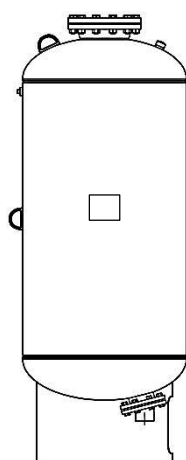
HIGH PRESSURE REMOVABLE BLADDER TANK



ASME



ASME



ASME

Model	Gal.	200 PSI			250 PSI		
		Part No.	List (\$)	Wt.(lbs.)	Part No.	List (\$)	Wt.(lbs.)
NLA-HP-35	10	22040035	\$ 3,499	52	22050035	\$ 3,770	53
NLA-HP-50	13	22040050	\$ 3,741	59	22050050	\$ 4,024	65

NLA-HP-85	23	22040085	\$ 3,903	95	22050085	\$ 4,185	105
NLA-HP-130	35	22040130	\$ 4,176	127	22050130	\$ 4,482	141
NLA-HP-200	53	22040200	\$ 4,850	194	22050200	\$ 5,243	220
NLA-HP-300	79	22040300	\$ 5,352	252	22050300	\$ 5,789	282
NLA-HP-400	106	22040400	\$ 5,546	336	22050400	\$ 5,998	410
NLA-HP-500	132	22040500	\$ 5,986	400	22050500	\$ 6,534	512
NLA-HP-600	158	22040600	\$ 8,786	419	22050600	\$ 9,648	569
NLA-HP-800L	211	22040805	\$ 9,757	592	22050805	\$ 10,706	711

NLA-HP-1000	264	22041000	\$ 11,706	698	22051000	\$ 12,846	830
NLA-HP-1200	317	22041200	\$ 12,318	905	22051200	\$ 13,523	1118
NLA-HP-1400	370	22041400	\$ 13,432	1107	22051400	\$ 14,748	1330
NLA-HP-1600	422	22041600	\$ 18,454	1413	22051600	\$ 20,250	1713
NLA-HP-2000	528	22042000	\$ 20,354	1643	22052000	\$ 22,348	2026
NLA-HP-2500	660	22042500	\$ 23,412	1935	22052500	\$ 25,704	2352
NLA-HP-3000L	792	22043000	\$ 26,157	2198	22053000	\$ 28,735	2782
NLA-HP-3000S	792	22043001	\$ 33,159	2694	22053001	\$ 35,990	2965
NLA-HP-4000	1056	22044000	\$ 39,288	3291	22054000	\$ 42,596	3736
NLA-HP-5000	1320	22045000	\$ 51,392	3858	22055000	\$ 55,847	4485
NLA-HP-7500	1980	22047500	\$ 76,294	5491	22057500	\$ 83,281	6583
NLA-HP-10000	2640	22049999	\$ 96,540	6796	22059999	\$ 105,383	8068
NLA-HP-15000	3963	22040000	\$ 150,207	9814	22050000	\$ 163,944	12030

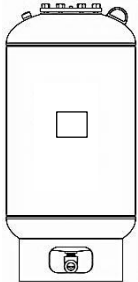
Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG; For vessel dimensions (diameter, height and system connection) refer to NLA price sheet or Submittal data.

For Sight Glass - Add \$145.00 to List (\$)



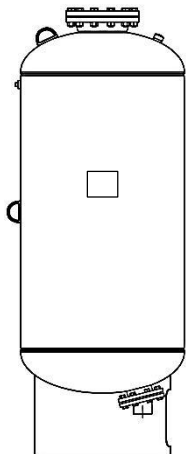
NVA EXPANSION TANKS – ASME

BOTTOM SYSTEM CONNECTION/REMOVABLE BLADDER TANK



ASME

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NVA-85	22000085	\$ 2,939.00	23	23	16	37	1	90
NVA-130	22000130	\$ 3,150.00	35	35	20	37	1	125
NVA-200	22000200	\$ 3,700.00	53	53	24	43	1 1/2	210
NVA-300	22000300	\$ 4,053.00	79	79	24	55	1 1/2	225
NVA-400	22000400	\$ 4,201.00	106	106	30	49	1 1/2	300
NVA-500	22000500	\$ 4,442.00	132	132	30	57	1 1/2	335
NVA-600	22000600	\$ 6,442.00	158	158	30	65	1 1/2	360
NVA-800L	22000805	\$ 7,181.00	211	211	32	76	1 1/2	475



ASME

NVA-1000	22001000	\$ 10,406.00	264	264	36	87	3	735
NVA-1200	22001200	\$ 10,794.00	317	317	36	98 1/2	3	745
NVA-1400	22001400	\$ 11,701.00	370	370	36	110 1/2	3	900
NVA-1600	22001600	\$ 15,565.00	422	422	48	84	3	1210
NVA-2000	22002000	\$ 16,927.00	528	528	48	96	3	1305
NVA-2500	22002500	\$ 18,881.00	660	660	48	110	4	1430
NVA-3000L	22003000	\$ 23,113.00	792	792	48	133	4	1575
NVA-3000S	22003001	\$ 29,516.00	792	792	60	93	4	2169
NVA-4000	22004000	\$ 35,116.00	1056	1056	60	115	4	2638
NVA-5000	22005000	\$ 44,904.00	1320	1320	60	138	4	3246
NVA-7500	22007500	\$ 64,607.00	1980	1980	72	140	4	4080
NVA-10000	22009999	\$ 82,683.00	2640	2640	72	172	4	4920
NVA-15000	22000000	\$ 127,056.00	3963	3963	72	243	4	6000

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG

For Sight Glass - Add \$145.00 to List (\$)



WESSGUARD® RETROFIT FOR NLA

The bladder-style expansion tank function is to accept expanded water created during the thermal expansion process that occurs as heat energy increases the system water volume. The properly sized expansion tank will control pressure increases in the piping system based on the captured compressible air chamber within the tank to the designer's acceptable limits.

The system in its as-built state can differ from engineer design and functionality. Unwarranted pressure increases can severely affect the critical components of the heating or cooling system.

Factors that can affect the excessive pressure swings in the system:

- Properly sized expansion tank
- Properly installed and pre-charge adjusted expansion tank
- Automatic fill station pressure set point
- Automatic fill station pressure range drift (over time)
- Free air (pockets and entrained) in the piping system
- System pump location relative to the expansion tank
- System fluid (water, glycol/water, etc.) temperature range

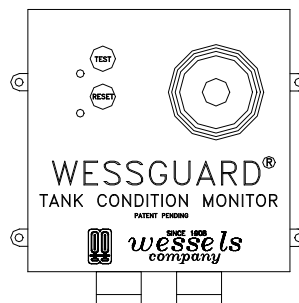
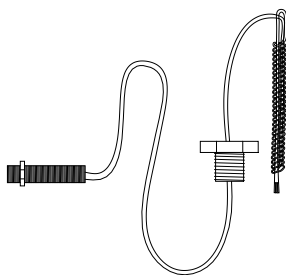
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. **WessGuard®** was developed to monitor the fluid within the expansion tank by determining excessive movement of the vessel bladder. **WessGuard®** incorporates a capacitive proximity sensor that determines if fluid levels in the expansion tank exceed "normal" operating conditions. Furthermore, if an expansion tank bladder is compromised, **WessGuard®** monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual LED and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - NLA

Model	Part No.	List (\$)	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	\$ 1,095.00	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER



Specify Standard or WessGuard-2® with Phone Texting Alerts



NL REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
NL 15	03200015	\$ 56.00	NA	NA	05200015	\$ 76.00
NL 20	03200020	\$ 63.00	NA	NA	05200020	\$ 76.00
NL 30	03200030	\$ 79.00	NA	NA	05200030	\$ 76.00
NL 60	03200090	\$ 81.00	NA	NA	05200060	\$ 76.00
NL 80L	03200080	\$ 97.00	NA	NA	05200080	\$ 97.00
NL 90L	03200090	\$ 224.00	NA	NA	05200090	\$ 97.00
NL 40VL	03200140	\$ 260.00	NA	NA	05200140	\$123.00
NL 60VL	03200160	\$ 364.00	NA	NA	05200160	\$123.00
NL 90VL	03200190	\$ 670.00	NA	NA	05200190	\$123.00
NL 110VL	03200210	\$ 785.00	NA	NA	05201110	\$179.00
NL 160VL	03200260	\$ 1,388.00	NA	NA	05201160	\$179.00

NLA REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
NLA 35	02220035	\$ 334.00	NA	NA	05220035	\$269.00
NLA 50	02220050	\$ 548.00	NA	NA	05220050	\$269.00
NLA 85	02220085	\$ 759.00	04220085	\$ 158.00	05220085	\$399.00
NLA 130	02220130	\$ 949.00	04220130	\$ 158.00	05220130	\$399.00
NLA 200	02220200	\$ 1,099.00	04220200	\$ 164.00	05220200	\$446.00
NLA 300	02220300	\$ 1,381.00	04220300	\$ 164.00	05220300	\$504.00
NLA 400	02220400	\$ 1,547.00	04220400	\$ 164.00	05220400	\$504.00
NLA 500	02220500	\$ 2,230.00	04220500	\$ 164.00	05220500	\$543.00
NLA 600	02220600	\$ 2,822.00	04220600	\$ 164.00	05220600	\$543.00
NLA 800L	02220805	\$ 3,577.00	04220805	\$ 164.00	05220805	\$ 571.00
NLA 1000	9800220	\$ 3,583.00	NA	NA	05221000	\$ 983.00
NLA 1200	9800240	\$ 4,027.00	NA	NA	05221200	\$ 983.00
NLA 1400	9800260	\$ 4,284.00	NA	NA	05221400	\$ 983.00
NLA 1600	9800280	\$ 4,621.00	NA	NA	05221600	\$ 1,147.00
NLA 2000	9800300	\$ 4,955.00	NA	NA	05222000	\$ 1,147.00
NLA 2500	9800305	\$ 5,306.00	NA	NA	05222500	\$ 1,147.00
NLA 3000L	9800320	\$ 5,800.00	NA	NA	05223000	\$ 1,147.00
NLA 3000S	9800325	\$ 7,475.00	NA	NA	05223001	\$ 1,147.00
NLA 4000	9800340	\$ 8,956.00	NA	NA	05224000	\$ 1,193.00
NLA 5000	9800360	\$ 9,272.00	NA	NA	05225000	\$ 1,193.00
NLA 7500	9800380	\$ 13,908.00	NA	NA	05227500	\$ 1,193.00
NLA 10000	9800390	\$ 17,857.00	NA	NA	05220000	\$ 1,193.00



NLAP REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
NLAP-40	02250040	\$ 364.00	NA	NA	05220035	\$ 253.00
NLAP-60	02250060	\$ 625.00	NA	NA	05220050	\$ 253.00
NLAP-100	02250100	\$ 849.00	NA	NA	05220085	\$ 402.00
NLAP-150	02250150	\$ 1,039.00	NA	NA	05220150	\$ 402.00
NLAP-220	02250220	\$ 1,148.00	NA	NA	05220220	\$ 577.00
NLAP-325	02250325	\$ 1,420.00	NA	NA	05220325	\$ 593.00
NLAP-400	02250400	\$ 1,472.00	NA	NA	05220401	\$ 593.00
NLAP-560	02250560	\$ 2,374.00	NA	NA	05220560	\$ 718.00
NLAP-600	02250600	\$ 2,681.00	NA	NA	05220601	\$ 718.00
NLAP-700	02250700	\$ 3,129.00	NA	NA	05220700	\$ 718.00
NLAP-815	02250815	\$ 3,464.00	NA	NA	05220815	\$ 718.00
NLAP-950	02250950	\$ 3,234.00	NA	NA	05220950	\$ 1,131.00
NLAP-1100	02251100	\$ 3,508.00	NA	NA	05221100	\$ 1,047.00

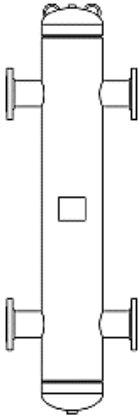
NVA REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
NVA 85	02210085	\$ 793.00	04310085	\$ 327.00	05310085	\$269.00
NVA 130	02210130	\$ 1,008.00	04310130	\$ 327.00	05310130	\$269.00
NVA 200	02210200	\$ 1,176.00	04310200	\$ 329.00	05310200	\$399.00
NVA 300	02210300	\$ 1,417.00	04310300	\$ 329.00	05310300	\$399.00
NVA 400	02210400	\$ 1,660.00	04310400	\$ 329.00	05310400	\$446.00
NVA 500	02210500	\$ 2,149.00	04310500	\$ 434.00	05310500	\$583.00
NVA 600	02210600	\$ 2,753.00	04310600	\$ 434.00	05310600	\$583.00
NVA 800L	02210805	\$ 3,529.00	04310805	\$ 434.00	05310805	\$588.00
NVA 1000	02211000	\$ 3,603.00	04311000	\$ 752.00	05311000	\$588.00
NVA 1200	02211200	\$ 3,831.00	04311200	\$ 752.00	05311200	\$ 718.00
NVA 1400	02211400	\$ 4,099.00	04311400	\$ 752.00	05311400	\$ 718.00
NVA 1600	02211600	\$ 4,398.00	04311600	\$ 891.00	05311600	\$ 802.00
NVA 2000	02212000	\$ 4,717.00	04312000	\$ 891.00	05312000	\$ 802.00
NVA 2500	02212500	\$ 4,991.00	04312500	\$ 891.00	05312500	\$ 802.00
NVA 3000L	02213000	\$ 5,471.00	04313000	\$ 891.00	05313000	\$ 802.00
NVA 3000S	02213005	\$ 7,103.00	04313001	\$ 891.00	05313001	\$ 802.00
NVA 4000	02214000	\$ 8,298.00	04314000	\$ 1,007.00	05314000	\$ 876.00
NVA 5000	02215000	\$ 8,733.00	04315000	\$ 1,007.00	05315000	\$ 876.00
NVA 7500	02217500	\$ 13,073.00	04317500	\$ 1,007.00	05317500	\$ 876.00
NVA 10000	02219999	\$ 16,566.00	04310000	\$ 1,302.00	05310000	\$1,012.00



PSA PRIMARY/SECONDARY HEADER – ASME

WITH INTERNAL BAFFLE – 150 PSI



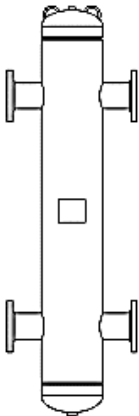
ASME

Model	Part No.	List (\$)	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSA-2	71002020	\$ 2,148.00	2	6 5/8	34 1/4	14 3/4	69	90
PSA-2.5	71002025	\$ 2,528.00	2 1/2	6 5/8	39 1/4	14 3/4	108	115
PSA-3	71002030	\$ 4,014.00	3	10 3/4	49 1/2	18 3/4	144	225
PSA-4	71002040	\$ 4,699.00	4	10 3/4	70 1/4	22 3/4	255	330
PSA-5	71002050	\$ 6,347.00	5	14	80 1/2	26	398	215
PSA-6	71002060	\$ 6,808.00	6	18	93 3/4	30	570	320
PSA-8	71002080	\$ 8,809.00	8	24	122 3/4	36	945	575
PSA-10	71002100	\$ 14,375.00	10	30	149 1/4	42	1440	935
PSA-12	71002120	\$ 19,599.00	12	30	179 1/2	42	2100	1165
PSA-14	71002140	\$ 38,413.00	14	42	199 1/4	54	2550	2430
PSA-16	71002160	\$ 50,031.00	16	48	224 1/4	60	3300	3260

Materials = Steel Shell;
Maximum Pressure = 150 psig; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior;
Support Legs Standard on Models PSA-6 and Up.

PSAV PRIMARY/SECONDARY HEADER – ASME

WITH WESSVENT AIR/DIRT SEPARATION – 150 PSI



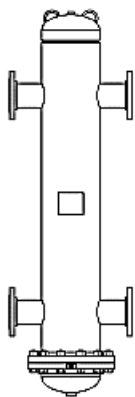
ASME

Model	Part No.	List (\$)	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSAV-2	71102020	\$ 3,387.00	2	6 5/8	34 1/4	14 3/4	69	120
PSAV-2.5	71102025	\$ 3,812.00	2 1/2	6 5/8	39 1/4	14 3/4	108	145
PSAV-3	71102030	\$ 5,293.00	3	10 3/4	49 1/2	18 3/4	144	270
PSAV-4	71102040	\$ 6,184.00	4	10 3/4	70 1/4	22 3/4	255	380
PSAV-5	71102050	\$ 8,339.00	5	14	80 1/2	26	398	280
PSAV-6	71102060	\$ 9,375.00	6	18	93 3/4	30	570	375
PSAV-8	71102080	\$ 13,114.00	8	24	122 3/4	36	945	635
PSAV-10	71102100	\$ 21,328.00	10	30	149 1/4	42	1440	995
PSAV-12	71102120	\$ 26,383.00	12	30	179 1/2	42	2100	1250
PSAV-14	71102140	\$ 51,710.00	14	42	199 1/4	54	2550	2480
PSAV-16	71102160	\$ 67,348.00	16	48	224 1/4	60	3300	3310

Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 psig; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior;
Support Legs Standard on Models PSAV-6 and Up.

PSAVR PRIMARY/SECONDARY HEADER – ASME

WITH REMOVABLE WESSVENT AIR/DIRT SEPARATOR – 150 PSI



ASME

Model	Part No.	List (\$)	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSAVR-2	71302020	\$ 3,933.00	2	6 5/8	34 1/4	14 3/4	69	162
PSAVR-2.5	71302025	\$ 4,426.00	2 1/2	6 5/8	39 1/4	14 3/4	108	187
PSAVR-3	71302030	\$ 6,145.00	3	10 3/4	49 1/2	18 3/4	144	354
PSAVR-4	71302040	\$ 7,180.00	4	10 3/4	70 1/4	22 3/4	255	464
PSAVR-5	71302050	\$ 9,682.00	5	14	80 1/2	26	398	444
PSAVR-6	71302060	\$ 10,884.00	6	18	93 3/4	30	570	625
PSAVR-8	71302080	\$ 15,229.00	8	24	122 3/4	36	945	1075
PSAVR-10	71302100	\$ 24,763.00	10	30	149 1/4	42	1440	1733
PSAVR-12	71302120	\$ 30,632.00	12	30	179 1/2	42	2100	1988
PSAVR-14	71302140	\$ 60,038.00	14	42	199 1/4	54	2550	4138
PSAVR-16	71302160	\$ 78,196.00	16	48	224 1/4	60	3300	5142

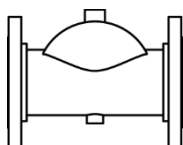
Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F;
 Finish = Primer Painted Exterior.
 Support Legs Standard on Models PSAR-6 and Up.



Severe Service Products are designed for applications for commercial and industrial systems that require internal and external protection more robust than traditional fabricated steel designs. These products include stainless Air Purgers & ASME Separators, stainless ASME Plain Steel Tanks, and stainless & epoxy lined (interior & exterior) ASME bladder tanks.

SS-AP INLINE AIR PURGERS – ASME

FABRICATED STAINLESS STEEL



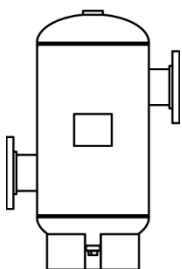
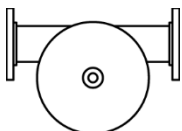
ASME

Model	Part No.	304 List (\$)	316 List (\$)	Line Size	Ht.	Lng.	Ship Wt (lbs.)
SS-AP-104	37630040	\$ 7,368	\$ 8,421	4	5	16	55
SS-AP-105	37630050	\$ 9,218	\$ 10,500	5	7 1/2	20	60
SS-AP-106	37630060	\$ 10,448	\$ 11,916	6	8 1/2	24	65
SS-AP-108	37630080	\$ 14,159	\$ 17,551	8	11 1/4	32	110
SS-AP-110	37630100	\$ 21,328	\$ 27,067	10	14	40	165
SS-AP-112	37630120	\$ 25,790	\$ 32,794	12	16 3/4	48	315
SS-AP-114	37630140	\$ 33,201	\$ 41,501	14	22	56	475
SS-AP-116	37630160	\$ 41,075	\$ 51,344	16	24	48	315
SS-AP-118	37630180	\$ 49,848	\$ 62,310	18	28	72	545

Materials = Fabricated Stainless Steel; Maximum Pressure = 150 PSIG;
Maximum Temperature = 450°F; Finish = Primer Painted Exterior
Conforms to ASME requirements.

SS-SPA TANGENTIAL AIR SEPARATORS – ASME

STAINLESS STEEL SEPARATOR LESS STRAINER



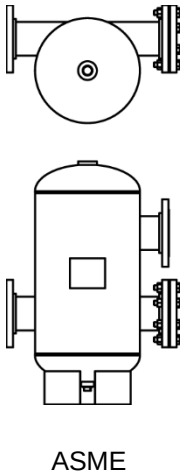
ASME

Model	Part No.	304 List (\$)	316 List (\$)	Size	Type	Ht.	Wdth.	Wt. (lbs.)
SS-SPA 2	72050020	\$ 4,034.00	\$ 4,518.00	2	NPT	22 1/2	16 5/8	73
SS-SPA 2.5	72050025	\$ 4,385.00	\$ 4,925.00	2 1/2	NPT	24 1/8	16 5/8	75
SS-SPA 3	72050030	\$ 5,720.00	\$ 6,393.00	3	FLNG	23 1/2	19 3/4	95
SS-SPA 4	72050040	\$ 8,690.00	\$ 9,704.00	4	FLNG	32	21 3/4	122
SS-SPA 5	72050050	\$ 11,795.00	\$ 13,098.00	5	FLNG	32	21 3/4	138
SS-SPA 6	72050060	\$ 16,589.00	\$ 18,498.00	6	FLNG	44	28	222
SS-SPA 8	72050080	\$ 22,085.00	\$ 24,735.00	8	FLNG	44	28	259
SS-SPA 10	72050100	\$ 35,423.00	\$ 39,672.00	10	FLNG	60 1/2	41	556
SS-SPA 12	72050120	\$ 54,173.00	\$ 60,674.00	12	FLNG	60 1/2	41	627
SS-SPA 14	72050140	\$ 68,442.00	\$ 76,656.00	14	FLNG	78	46 3/8	882
SS-SPA 16	72050160	\$ 107,377.00	\$ 120,265.00	16	FLNG	108	60	1906
SS-SPA 18	72050180	\$ 155,886.00	\$ 174,594.00	18	FLNG	124	66	2555
SS-SPA 20	72050200	\$ 186,075.00	\$ 208,403.00	20	FLNG	138	72	2633
SS-SPA 22	72050220	\$ 211,065.00	\$ 236,391.00	22	FLNG	150	78	3831
SS-SPA 24	72050240	\$ 253,478.00	\$ 283,895.00	24	FLNG	150	80	4130

Materials = Stainless Steel; Maximum Pressure = 125 PSIG;
Maximum Temperature = 450°F; Finish = Primer Painted Exterior



SS-SPA-S STAINLESS STEEL SEPARATOR WITH STRAINER

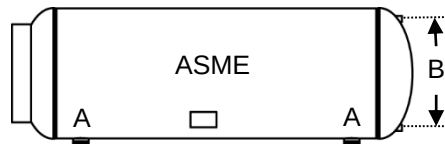


Model	Part No.	304 List (\$)	316 List (\$)	Size	Type	Ht.	Wdth.	Wt. (lbs.)
SS-SPA 2S	72060020	\$ 5,657.00	\$ 6,336.00	2	NPT	24 1/2	16 5/8	72
SS-SPA 2.5S	72060025	\$ 6,396.00	\$ 7,162.00	2 1/2	NPT	24 1/2	16 5/8	100
SS-SPA 3S	72060030	\$ 9,099.00	\$ 10,192.00	3	FLNG	25	19 3/4	108
SS-SPA 4S	72060040	\$ 15,020.00	\$ 16,824.00	4	FLNG	32	21 3/4	159
SS-SPA 5S	72060050	\$ 25,140.00	\$ 28,156.00	5	FLNG	32	21 3/4	180
SS-SPA 6S	72060060	\$ 22,512.00	\$ 25,213.00	6	FLNG	44	28	298
SS-SPA 8S	72060080	\$ 30,679.00	\$ 34,363.00	8	FLNG	44	28	372
SS-SPA 10S	72060100	\$ 50,522.00	\$ 56,582.00	10	FLNG	60 1/2	41	840
SS-SPA 12S	72060120	\$ 65,654.00	\$ 73,533.00	12	FLNG	60 1/2	41	868
SS-SPA 14S	72060140	\$ 89,936.00	\$ 100,727.00	14	FLNG	78	46 3/8	1160
SS-SPA 16S	72060160	\$ 162,063.00	\$ 181,510.00	16	FLNG	108	60	2308
SS-SPA 18S	72060180	\$ 220,225.00	\$ 246,651.00	18	FLNG	124	66	3039
SS-SPA 20S	72060200	\$ 265,022.00	\$ 296,823.00	20	FLNG	138	72	3980
SS-SPA 22S	72060220	\$ 340,614.00	\$ 381,488.00	22	FLNG	150	78	4261
SS-SPA 24S	72060240	\$ 417,862.00	\$ 468,004.00	24	FLNG	160	78	4932

Materials = Stainless Steel; Maximum Pressure = 125 PSIG;

Maximum Temperature = 450°F; Finish = Primer Painted Exterior

SSNA COMPRESSION TANKS – ASME



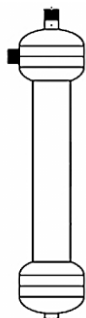
STAINLESS PLAIN STEEL

Model	Part No.	304 List (\$)	316 List (\$)	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)
SS12NA33	28012033	\$ 3,514.00	\$ 4,111.00	15	12	33	1"	8	86
SS12NA51	28012051	\$ 3,970.00	\$ 4,755.00	24	12	51	1"	8	108
SS14NA48	28014048	\$ 4,346.00	\$ 5,207.00	30	14	48	1"	10	121
SS14NA63	28014063	\$ 4,800.00	\$ 5,798.00	40	14	63	1"	10	166
SS16NA72	28016072	\$ 6,523.00	\$ 7,326.00	60	16	72	1"	12	214
SS20NA62	28020062	\$ 8,794.00	\$ 9,898.00	80	20	62 1/2	1"	16	228
SS20NA78	28020078	\$10,120.00	\$ 11,438.00	100	20	78	1"	16	283
SS24NA65	28024065	\$10,807.00	\$ 12,185.00	120	24	65	1"	20	290
SS24NA72	28024072	\$11,597.00	\$ 13,058.00	135	24	72	1"	20	318
SS30NA62	28030062	\$12,560.00	\$ 14,159.00	175	30	62 1/4	1-1/2"	22	362
SS30NA77	28030077	\$13,567.00	\$ 15,297.00	220	30	77	1-1/2"	22	438
SS30NA84	28030084	\$14,157.00	\$ 15,989.00	240	30	84	1-1/2"	22	474
SS36NA72	28036072	\$14,932.00	\$ 17,920.00	295	36	72	1-1/2"	28	624
SS36NA93	28036093	\$16,251.00	\$ 19,500.00	400	36	92 1/2	1-1/2"	28	770

Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F;
Finish = Primer; Sight glass tappings are 1/2" NPT; Base stands included on all models

SS-CFS CENTRIFUGAL SOLIDS SEPARATOR – Non-ASME

STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN

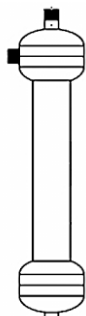


Model	Part No.	304 List (\$)	316 List (\$)	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	Wt. (Lbs.)
SS-CFS-50	69010050	\$2,370.00	\$ 2,988.00	19	6	1/2	5 - 10	11
SS-CFS-75	69010075	\$2,461.00	\$ 3,104.00	19	6	3/4	10 - 20	14
SS-CFS-100	69010100	\$2,608.00	\$ 3,289.00	29	6	1	17 - 32	21
SS-CFS-125	69010125	\$2,960.00	\$ 3,733.00	29	6	1 1/4	28 - 50	21
SS-CFS-150	69010150	\$3,017.00	\$ 3,804.00	29	6	1 1/2	45 - 70	22
SS-CFS-200	69010200	\$4,910.00	\$ 6,270.00	32	8 5/8	2	70 - 110	41
SS-CFS-250	69010250	\$5,693.00	\$ 7,271.00	35 1/2	8 5/8	2 1/2	100 - 160	45
SS-CFS-300	69010300	\$10,421.00	\$13,076.00	39	10 3/4	3	150 - 250	78

NON-ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models

SS-CFA CENTRIFUGAL SOLIDS SEPERATOR – ASME

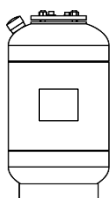
STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN



Model	Part No.	304 List (\$)	316 List (\$)	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	Wt. (Lbs.)
SS-CFA-50	69011050	\$ 2,687.00	\$ 3,432.00	19	6	1/2	5 - 10	11
SS-CFA-75	69011075	\$ 2,790.00	\$ 3,563.00	19	6	3/4	10 - 20	14
SS-CFA-100	69011100	\$ 2,957.00	\$ 3,776.00	29	6	1	17 - 32	21
SS-CFA-125	69011125	\$ 3,356.00	\$ 4,286.00	29	6	1 1/4	28 - 50	21
SS-CFA-150	69011150	\$ 3,420.00	\$ 4,368.00	29	6	1 1/2	45 - 70	22
SS-CFA-200	69011200	\$ 5,567.00	\$ 7,183.00	32	8 5/8	2	70 - 110	41
SS-CFA-250	69011250	\$ 6,454.00	\$ 8,328.00	35 1/2	8 5/8	2 1/2	100 - 160	45
SS-CFA-300	69011300	\$11,816.00	\$15,168.00	39	10 3/4	3	150 - 250	78

ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models

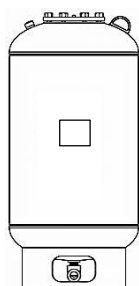
SSFXA REMOVABLE BLADDER TANKS – ASME



STAINLESS STEEL REMOVABLE BLADDER

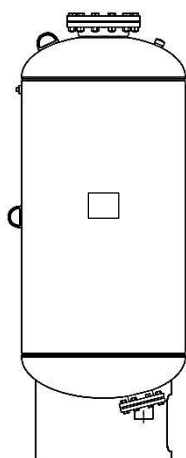
Model	Part No.	304 List (\$)	316 List (\$)	Gal.	Dia.	Ht.	Syst. Con.	Wt. (Lbs.)
SSFXA 35	26010035	\$ 7,156	\$ 8,491	10	12	23 1/2	3/4	63
SSFXA 50	26010050	\$ 7,660	\$ 9,237	13	14	24	3/4	76

ASME



SSFXA 85	26010085	\$ 10,532	\$ 12,277	23	16	37	1	141
SSFXA 130	26010130	\$ 11,307	\$ 12,714	35	20	37	1	151
SSFXA 200	26010200	\$ 14,176	\$ 17,096	53	24	43	1 1/2	243
SSFXA 300	26010300	\$ 15,397	\$ 18,697	79	24	55	1 1/2	279
SSFXA 400	26010400	\$ 19,118	\$ 23,591	106	30	49	1 1/2	333
SSFXA 500	26010500	\$ 21,948	\$ 27,067	132	30	57	2	398
SSFXA 600	26010600	\$ 24,671	\$ 30,340	158	30	65	2	440
SSFXA 700	26010700	\$ 28,429	\$ 34,909	185	30	80	2	401
SSFXA 800L	26010805	\$ 30,661	\$ 37,975	211	32	76	2	404

ASME



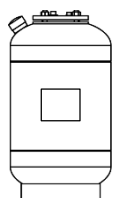
SSFXA 1000	26011000	\$ 57,073	\$ 71,341	264	36	87	3	735
SSFXA 1200	26011200	\$ 58,545	\$ 73,180	317	36	98	3	745
SSFXA 1400	26011400	\$ 60,395	\$ 75,491	370	36	111	3	900
SSFXA 1600	26011600	\$ 93,800	\$117,251	422	48	84	3	1210
SSFXA 2000	26012000	\$ 93,059	\$116,326	528	48	96	3	1305
SSFXA 2500	26012500	\$105,688	\$132,109	660	48	114	4	1430
SSFXA 3000L	26013000	\$111,631	\$139,538	792	48	134	4	1575
SSFXA 4000	26014000	\$152,622	\$190,779	1056	60	115	4	2638
SSFXA 5000	26015000	\$187,151	\$233,940	1320	60	138	4	3246

Finish = Bead blast Exterior, Factory Pre-charge = 50 PSI

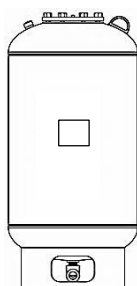
ASME



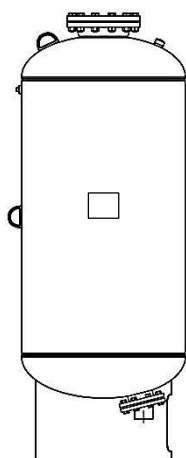
EPFxA EPOXY-LINED BLADDER TANKS – ASME



ASME



ASME



ASME

EPOXY REMOVABLE BLADDER

Model	Part No.	List (\$)	Gal.	Dia.	Ht.	Syst. Con.	Wt. (Lbs.)
EPFxA 35	27010035	\$ 3,540	10	12	23 1/2	3/4	40
EPFxA 50	27010050	\$ 3,795	13	14	24	3/4	50

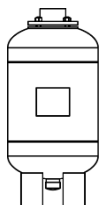
EPFxA 85	27010085	\$ 3,920	23	16	37	1	90
EPFxA 130	27010130	\$ 4,158	35	20	37	1	125
EPFxA 200	27010200	\$ 6,384	53	24	43	1 1/2	210
EPFxA 300	27010300	\$ 6,466	79	24	55	1 1/2	225
EPFxA 400	27010400	\$ 6,840	106	30	49	1 1/2	300
EPFxA 500	27010500	\$ 7,550	132	30	57	2	330
EPFxA 600	27010600	\$ 9,449	158	30	65	2	360
EPFxA 700	27010700	\$ 10,092	185	30	80	2	401
EPFxA 800L	27010805	\$ 10,843	211	32	76	2	475

EPFxA 1000	27011000	\$ 15,691	264	36	87	3	735
EPFxA 1200	27011200	\$ 17,478	317	36	98	3	745
EPFxA 1400	27011400	\$ 19,961	370	36	111	3	900
EPFxA 1600	27011600	\$ 22,232	422	48	84	3	1210
EPFxA 2000	27012000	\$ 24,686	528	48	96	3	1305
EPFxA 2500	27012500	\$ 30,167	660	48	114	4	1430
EPFxA 3000L	27013000	\$ 32,463	792	48	134	4	1575
EPFxA 4000	27014000	\$ 42,858	1056	60	115	4	2638
EPFxA 5000	27015000	\$ 52,145	1320	60	138	4	3246



Shock & Surge Tanks are specially designed hydro-pneumatic tanks used to absorb the harmful water hammer pressure wave in a piping system. When properly sized, these tanks are designed to capture the kinetic energy wave of a quick-closing valve (or other offending fixture) and limit the pressure spike that is otherwise created. Typically used in water well systems, municipal water distribution lines, pressure booster systems, and industrial water distribution systems.

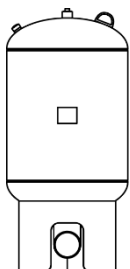
SSA SHOCK & SURGE TANKS – ASME



REMOVABLE BLADDER TANK

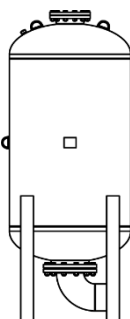
Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
SSA 35	26050035	\$ 6,724.00	10	10	12	26	2 1/2	63
SSA 50	26050050	\$ 7,176.00	13	13	14	26	2 1/2	74

ASME



ASME

SSA 85	26050085	\$ 7,408.00	23	23	16	30 1/2	3G	116
SSA 130	26050130	\$ 7,952.00	35	35	20	30 1/2	3G	135
SSA 200	26050200	\$ 10,014.00	53	53	24	46 1/2	4G	250
SSA 300	26050300	\$ 10,289.00	79	79	24	58 1/2	4G	360
SSA 400	26050400	\$ 10,564.00	106	106	30	52 1/2	4G	430
SSA 500	26050500	\$ 10,794.00	132	132	30	63	6G	525
SSA 600	26050600	\$ 14,454.00	158	158	30	71	6G	640
SSA 700	26050700	\$ 15,929.00	185	185	30	81 1/2	6G	749
SSA 800L	26050800	\$ 18,926.00	211	211	32	84	6G	760



ASME

SSA 1000	26051000	\$ 22,364.00	264	264	36	85	10F	830
SSA 1200	26051200	\$ 27,177.00	317	317	36	107	10F	1118
SSA 1400	26051400	\$ 28,966.00	370	370	36	119	10F	1330
SSA 1600	26051600	\$ 34,171.00	422	422	48	92	10F	1713
SSA 2000	26052000	\$ 39,213.00	528	528	48	105	10F	2026
SSA 2500	26052500	\$ 42,823.00	660	660	48	122	10F	2352

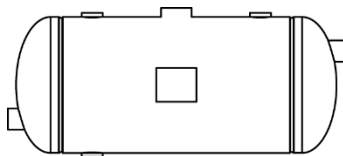
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 250 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG

G = Grooved Pipe Connection

F = Flanged Connection



SIZING FTA STEAM CONDENSATE FLASH TANKS



ASME

FLASH TANK SIZING																			
INFORMATION REQUIRED																			
TOTAL FLOW (LIQ. & VAPOR)	LBS/HR																		
INLET PRESSURE	PSIG																		
OUTLET PRESSURE	PSIG																		
SIZING																			
<i>FROM CHART (BELOW)</i>																			
AREA FACTOR	AF																		
TOTAL DISENGAGING AREA (AF X TOTAL FLOW)/1000	SQ.FT.																		
SELECTION																			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MODEL</th> <th>DISENG. AREA (SQ. FT.)</th> </tr> </thead> <tbody> <tr><td>FTA 13</td><td>2.71</td></tr> <tr><td>FTA 18</td><td>3.25</td></tr> <tr><td>FTA 24</td><td>3.79</td></tr> <tr><td>FTA 30</td><td>4.22</td></tr> <tr><td>FTA 48</td><td>6.00</td></tr> <tr><td>FTA 80</td><td>7.67</td></tr> <tr><td>FTA 125</td><td>10.00</td></tr> <tr><td>FTA 180</td><td>12.00</td></tr> </tbody> </table>	MODEL	DISENG. AREA (SQ. FT.)	FTA 13	2.71	FTA 18	3.25	FTA 24	3.79	FTA 30	4.22	FTA 48	6.00	FTA 80	7.67	FTA 125	10.00	FTA 180	12.00
MODEL	DISENG. AREA (SQ. FT.)																		
FTA 13	2.71																		
FTA 18	3.25																		
FTA 24	3.79																		
FTA 30	4.22																		
FTA 48	6.00																		
FTA 80	7.67																		
FTA 125	10.00																		
FTA 180	12.00																		
MODEL:																			

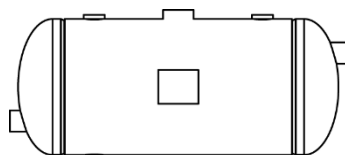
AREA FACTOR CHART (AF)

		OUTLET PRESSURE (PSIG)										
		0	2	5	10	15	20	30	40	60	80	100
INLET PRESSURE (PSIG)	400	5.41	4.70	3.89	3.01	2.44	2.03	1.49	1.15	0.77	0.56	0.42
	350	5.14	4.45	3.66	2.84	2.28	1.91	1.38	1.07	0.70	0.51	0.37
	300	4.86	4.15	3.42	2.62	2.11	1.75	1.26	0.96	0.62	0.44	0.31
	250	4.41	3.82	3.12	2.39	1.91	1.56	1.11	0.85	0.52	0.37	0.25
	200	3.98	3.40	2.80	2.12	1.68	1.37	0.97	0.72	0.43	0.28	0.18
	175	3.75	3.20	2.61	1.95	1.57	1.26	0.87	0.64	0.38	0.23	0.15
	160	3.60	3.08	2.50	1.86	1.46	1.19	0.80	0.59	0.34	0.21	0.12
	150	3.48	2.98	2.41	1.80	1.40	1.14	0.77	0.56	0.31	0.19	0.10
	140	3.36	2.86	2.31	1.72	1.35	1.08	0.72	0.52	0.29	0.16	0.08
	130	3.24	2.76	2.23	1.65	1.29	1.02	0.67	0.49	0.26	0.14	0.07
	120	3.12	2.65	2.15	1.57	1.22	0.97	0.64	0.44	0.23	0.12	0.04
	110	2.99	2.52	2.05	1.50	1.15	0.91	0.58	0.40	0.20	0.09	0.02
	100	2.85	2.41	1.92	1.40	1.07	0.85	0.53	0.36	0.16	0.06	
	90	2.68	2.26	1.81	1.30	0.99	0.77	0.48	0.31	0.13	0.05	
	80	2.52	2.12	1.67	1.18	0.90	0.68	0.42	0.25	0.09		
	70	2.34	1.95	1.55	1.08	0.81	0.61	0.35	0.20	0.04		
	60	2.14	1.77	1.39	0.96	0.70	0.52	0.27	0.14			
	50	1.94	1.59	1.22	0.81	0.58	0.41	0.20	0.08			
	40	1.68	1.36	1.02	0.67	0.44	0.30	0.11				
	30	1.40	1.10	0.81	0.50	0.29	0.16					
	20	1.06	0.81	0.55	0.28	0.12						
	12	0.75	0.48	0.28								
	10	0.62	0.42	0.23								



FTA STEAM CONDENSATE FLASH TANKS - ASME

HORIZONTAL FLASH TANKS

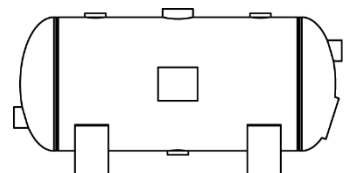


ASME

Model	Part No.	List (\$)	Gal.	Dia.	Ht.	Ship Wt. (lbs.)
FTA-13	17010039	\$ 2,157.00	13	10	39	79
FTA-18	17012039	\$ 2,407.00	18	12	39	94
FTA-24	17014039	\$ 2,686.00	24	14	39	108
FTA-30	17016010	\$ 2,948.00	30	16	38	121
FTA-48	17018010	\$ 3,112.00	48	18	48	168
FTA-80	17024010	\$ 3,994.00	80	24	46	214
FTA-125	17030010	\$ 5,621.00	125	30	48	285
FTA-180	17036010	\$ 6,444.00	180	36	48	339

Materials = Steel; Maximum Pressure = 150 PSIG for FTA-13 to FTA-30 and 125 PSIG for all other models; Maximum Temperature = 450°F; Finish = Primer Painted Exterior

CONFIGURATION ADDERS



ASME

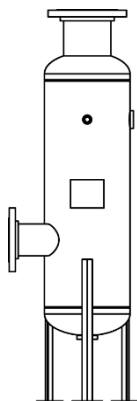
Model	ADDER TO LIST PRICE			
	Sparge	Drop Pipe	Saddles	Handhole
FTA 13	\$ 547.00	\$ 210.00	\$ 276.00	\$ 742.00
FTA 18	\$ 547.00	\$ 210.00	\$ 295.00	\$ 742.00
FTA 24	\$ 547.00	\$ 210.00	\$ 301.00	\$ 742.00
FTA 30	\$ 547.00	\$ 210.00	\$ 313.00	\$ 742.00
FTA 48	\$ 547.00	\$ 210.00	\$ 320.00	\$ 742.00
FTA 80	\$ 614.00	\$ 272.00	\$ 354.00	\$ 742.00
FTA 125	\$ 614.00	\$ 272.00	\$ 476.00	\$ 742.00
FTA 180	\$ 614.00	\$ 272.00	\$ 528.00	\$ 742.00

For saddles welded to the tank, refer to custom tank pricing (page 10.4).

Sparge for FTA-13 through FTA-48 furnished with 20 – 3/8" holes;

Sparge for FTA-80 through FTA-180 furnished with 32 – 3/8" holes;

Handhole limits Max. Temperature to 400°F



ASME

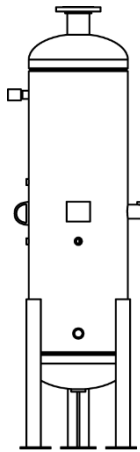
VERTICAL FLASH TANKS

Model	Part No.	List (\$)	Gal.	Dia.	Ht.	Inlet	Vent	Wt. (Lbs.)
FTA-6V	17010006	\$ 2,859.00	4	6	50	2	2 1/2	82
FTA-8V	17010008	\$ 3,540.00	7	8	52	3	4	64
FTA-12V	17010012	\$ 5,061.00	17	12	55 1/2	4	6	104
FTA-16V	17010016	\$ 6,257.00	37	16	63 1/2	6	6	170

Materials = Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior



BDT STEAM BLOWDOWN TANKS



ASME

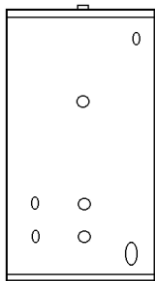
Model	Part no.	List (\$)	Dia.	Ht.	Boiler Design Press.	Steam Vent Size "A"	Blow-down Size "B"	Water Outlet Size "C"	Water Inlet Size "D"	Ship Wt. (lbs.)
BDT 21	52010021	\$ 7,451.00	14	66		2	3/4	1 1/2	3/4	411
BDT 22	52010022	\$ 7,470.00	14	66	1	2	1	1 1/2	1	411
BDT 23	52010023	\$ 7,774.00	14	66	to	2	1 1/4	2 1/2	1 1/4	411
BDT 24	52010024	\$ 7,856.00	14	66	50	2 1/2	1 1/2	2 1/2	1 1/2	411
BDT 25	52010025	\$ 9,979.00	18	72	psig	3	2	4	2	583
BDT 26	52010026	\$ 11,316.00	20	72		4	2 1/2	4	2	635
BDT 51	52010051	\$ 7,451.00	14	66		2	3/4	1 1/2	1	411
BDT 52	52010052	\$ 7,620.00	14	66	51	2 1/2	1	2	1 1/4	411
BDT 53	52010053	\$ 8,885.00	18	72	to	3	1 1/4	3	1 1/2	583
BDT 54	52010054	\$ 10,647.00	18	72	100	4	1 1/2	4	2	583
BDT 55	52010055	\$ 13,202.00	24	72	psig	5	2	4	2 1/2	775
BDT 56	52010056	\$ 17,512.00	30	78		6	2 1/2	5	2 1/2	1007
BDT 101	52010101	\$ 7,617.00	14	66	101	2 1/2	3/4	2	1	411
BDT 102	52010102	\$ 8,083.00	14	66	to	3	1	3	1 1/4	411
BDT 103	52010103	\$ 10,169.00	20	72	150	4	1 1/4	3	1 1/2	635
BDT 104	52010104	\$ 13,090.00	24	72	psig	5	1 1/2	4	2	775
BDT 151	52010151	\$ 7,667.00	14	66		3	3/4	2	1	411
BDT 152	52010152	\$ 9,456.00	18	72	151	4	1	2 1/2	1 1/4	583
BDT 153	52010153	\$ 12,109.00	24	72	to	5	1 1/4	3	2	775
BDT 154	52010154	\$ 16,860.00	30	78	200	6	1 1/2	4	2	1007
BDT 156	52010156	\$ 29,862.00	48	78	psig	8	2 1/2	5	3	1685
BDT 201	52010201	\$ 9,245.00	18	72		4	1 1/4	2	1 1/4	583
BDT 202	52010202	\$ 11,910.00	24	72	201	5	1 1/2	2 1/2	1 1/2	775
BDT 203	52010203	\$ 16,836.00	30	78	to	6	2	4	2	1007
BDT 204	52010204	\$ 19,429.00	36	78	300	6	2 1/2	4	2 1/2	1148
BDT 205	52010205	\$ 29,801.00	48	78	psig	8	3	5	3	1685
BDT 206	52010206	\$ 40,836.00	54	84		10	3	6	3	1955
BDT 301	52010301	\$ 9,965.00	20	72		4	1 1/4	2 1/2	1 1/4	635
BDT 302	52010302	\$ 12,109.00	24	72	301	5	1 1/2	3	1 1/2	775
BDT 304	52010304	\$ 25,771.00	42	78	to	8	2 1/2	4	2 1/2	1486
BDT 305	52010305	\$ 40,103.00	54	84	400	10	3	5	3	1955
BDT 306	52010306	\$ 53,827.00	66	84	psig	10	4	6	4	2417
BDT 401	52010401	\$ 9,969.00	20	72	401	4	1 1/4	2 1/2	1 1/4	635
BDT 404	52010404	\$ 29,202.00	48	78	to	8	2 1/2	4	2 1/2	1685
BDT 405	52010405	\$ 46,016.00	60	84	500	10	3	5	3	2233
BDT 406	52010406	\$ 61,448.00	72	84	psig	12	4	8	4	2715
BDT 501	52010501	\$ 11,910.00	24	72		5	1 1/4	2 1/2	1 1/4	775
BDT 502	52010502	\$ 15,876.00	30	78	501	6	1 1/2	3	1.5	1007
BDT 503	52010503	\$ 25,171.00	42	78	to	8	2 1/2	4	2 1/2	1486
BDT 504	52010504	\$ 40,073.00	54	84	600	10	2 1/2	5	2 1/2	1955
BDT 505	52010505	\$ 54,326.00	66	84	psig	12	3	6	3	2417
BDT 506	52010506	\$ 61,448.00	72	84		12	4	8	4	2715
BDT 602	52010602	\$ 18,446.00	36	78		6	1 1/4	3	1 1/2	1148
BDT 603	52010603	\$ 29,185.00	48	78	601	8	2	4	2	1685
BDT 604	52010604	\$ 45,908.00	60	84	to	10	2 1/2	5	2 1/2	2233
BDT 605	52010605	\$ 57,843.00	72	84	800	12	3	6	3	2715
BDT 606	52010606	\$ 58,941.00	72	84	psig	12	4	8	4	2715

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior



Glasslined storage tanks are used to store cold or hot potable water. Typically used in **domestic hot water storage** systems.

JACKETED AND INSULATED TANKS – ASME & Non-ASME



ASME &
Non-ASME

Model	Part No.	List Price	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
GN 120VJ	34024069	\$ 4,019.00	120	29 1/2	62	150	320
GA 120VJ	34028062	\$ 7,281.00	120	28	61 3/4	160	400
GA 200VJC	34029077	\$ 7,420.00	200	32	77	125	560
GA 200VJ	34030077	\$ 8,689.00	175	36	83	125	615
GA 250VJ	34020078	\$ 13,962.00	250	36	93	125	900
GA 350VJ	34036087	\$ 16,278.00	350	42	97	125	940
GA 400VJ	34036098	\$ 18,467.00	400	42	105	125	1,012
GA 500VJ	34044088	\$ 25,413.00	500	54	84	125	1,658
GA 750VJ	34048106	\$ 27,694.00	750	54	116	125	2,094
GA 1000VJ	34049138	\$ 33,443.00	1000	54	150	125	3,328

Materials = Glass-lined steel vessel; Maximum Temperature = 180°F;
Finish = Urethane Paint Exterior; Furnished with Magnesium Anode Rods.
Horizontal Models available – Consult Factory

NON-JACKETED TANKS - ASME



ASME

Model	Part No.	List Price	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
GA 200V	34028077	\$ 5,627.00	200	28	77	125	415
GA 200M	34032077	\$ 6,999.00	200	30	72	125	460
GA 350M	34036086	\$ 10,409.00	350	36	88	125	670
GA 400M	34036097	\$ 12,226.00	400	36	97	125	775
GA 500M	34042088	\$ 14,674.00	500	42	89	125	815
GA 750M	34048105	\$ 20,337.00	750	48	106	125	1,290
GA 1000M	34048138	\$ 24,238.00	1000	48	138	125	1,655
GA 1250M	44054129	\$ 27,577.00	1250	54	129	125	2,451
GA 1500M	34054153	\$ 29,970.00	1500	54	153	125	2,810

Materials = Glass-lined steel vessel; Maximum Temperature = 180°F;
Finish = Red Oxide Primer Exterior; Furnished with Magnesium Anode Rods;
“M” Models have Threaded Leg Sockets to Equip Pipe Legs (Not Included) for Vertical Mounting.

SADDLES

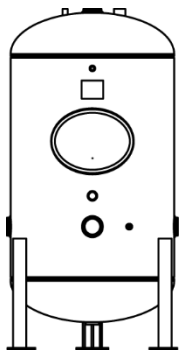
Code	Description
A	ASME
C	Compact
G	Glass Lined
J	Jacketed & Insulated
M	Horizontal or Vertical Mounting
N	Non-ASME
V	Vertical Mounting

Diameter	Wt. Per Pair	List Price Per Pair
30"	50 lbs.	\$ 486.00
36"	56 lbs.	\$ 541.00
42"	93 lbs.	\$ 1,046.00
48"	115 lbs.	\$ 1,239.00
54"	148 lbs.	\$ 1,461.00



Epoxy lined storage tanks are used to store cold or hot potable water. Typically used in **domestic hot water storage** systems.

NON-JACKETED TANKS - ASME



ASME

Model	Part No.	List Price	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
EA-140	35000140	\$ 6,254.00	140	24	81	150	350
EA-190	35000190	\$ 7,026.00	190	30	72	150	460
EA-225	35000225	\$ 7,540.00	225	30	84	150	510
EA-268	35000268	\$ 8,750.00	268	36	74	150	810
EA-320	35000320	\$ 9,594.00	320	36	86	150	890
EA-388	35000388	\$ 10,611.00	388	36	99	150	900
EA-375	35000375	\$ 10,489.00	375	42	76 3/4	150	980
EA-450	35000450	\$ 12,396.00	450	42	89 3/4	150	1,110
EA-535	35000535	\$ 13,888.00	535	42	102	150	1,225

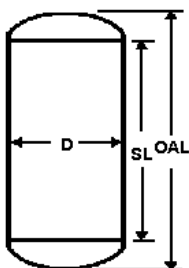
Materials = NSF Listed Epoxy-Lined steel vessel;

Maximum Temperature = 180°F; Finish = Primer Paint Exterior



Custom tanks are used for the storage of fluids and can have commercial and industrial applications. Specific linings are available for the protection of the tank inner steel walls. Custom tanks are available in 16" to 72" diameter and up to 216" over head dimensions. 125 psi rated tanks.

PLAIN STORAGE TANK WITH STANDARD FITTINGS



ASME

Dia (in.)	OAL (in.)	Shell Length	Cap. (gal.)	Black Wt.	LIST PRICES				
					Black	Glass	Epoxy	Cement	Ins. Jacket
16	48	39	40	87	\$2,259				\$1,329
	60	61	50	102	\$2,375				\$1,383
20	48	37	65	131	\$2,306				\$1,922
	60	49	80	160	\$2,466				\$1,974
	72	61	100	189	\$2,621				\$2,023
24	48	35	95	157	\$3,027		\$5,492		\$2,606
	60	47	115	190	\$3,182		\$5,966		\$2,663
	72	59	140	222	\$3,445		\$6,301		\$3,189
	84	71	165	290	\$3,797		\$6,681		\$3,932
	96	83	185	356	\$4,123		\$7,392		\$4,786
30	48	31	145	230	\$3,708	\$7,139	\$8,237	\$9,486	\$2,699
	60	43	180	276	\$3,887	\$7,368	\$9,234	\$10,056	\$3,017
	72	55	220	323	\$4,209	\$8,166	\$9,638	\$10,722	\$3,483
	84	67	250	370	\$4,385	\$8,678	\$10,058	\$11,408	\$3,946
	96	79	290	418	\$4,738	\$9,341	\$10,410	\$12,174	\$4,325
36	120	103	365	511	\$5,704	\$10,068	\$11,291	\$13,600	\$5,108
	60	40	265	411	\$5,136	\$10,722	\$11,114	\$11,753	\$3,946
	72	52	315	479	\$5,376	\$11,323	\$11,430	\$12,087	\$4,174
	84	64	370	547	\$5,622	\$12,002	\$12,433	\$13,146	\$4,371
	96	76	400	615	\$5,738	\$13,119	\$13,272	\$14,032	\$5,161
42	120	100	525	752	\$6,010	\$14,260	\$14,821	\$15,689	\$6,264
	72	49	430	712	\$9,806	\$12,277	\$12,176	\$14,304	\$5,338
	84	61	500	804	\$10,935	\$13,264	\$13,272	\$14,932	\$5,485
	96	73	575	895	\$11,219	\$16,039	\$16,498	\$17,457	\$6,039
	120	97	720	1077	\$12,494	\$18,781	\$19,241	\$20,330	\$7,201
	144	121	860	1259	\$13,353	\$19,763	\$21,287	\$22,493	\$8,353
	168	145	1000	1441	\$13,957	\$21,698	\$23,733	\$25,076	\$9,474
48	192	169	1150	1624	\$14,712	\$24,182	\$27,049	\$28,578	\$11,293
	84	57	650	1118	\$13,047	\$18,057	\$19,521	\$20,628	\$6,021
	96	69	750	1236	\$13,873	\$21,119	\$22,277	\$23,544	\$6,461
	120	93	940	1470	\$15,972	\$22,359	\$24,232	\$25,602	\$7,743
	144	117	1125	1705	\$16,118	\$26,442	\$27,660	\$29,220	\$8,816
	168	141	1315	1938	\$17,190	\$27,576	\$27,999	\$29,575	\$11,462
	192	165	1500	2174	\$17,565	\$30,595	\$30,874	\$32,608	\$12,056
54	96	65	950	1782	\$17,207	\$23,958	\$24,165	\$27,090	\$7,280
	120	89	1190	2110	\$20,167	\$29,034	\$28,930	\$29,863	\$8,957
	144	113	1425	2440	\$21,584	\$31,780	\$31,755	\$32,724	\$10,641
	168	137	1665	2765	\$23,134	\$35,627	\$35,352	\$36,515	\$12,312
	192	161	1900	3092	\$24,364	\$39,435	\$39,383	\$41,384	\$13,777
60	216	185	2140	3420	\$27,406	\$46,519	\$47,795	\$51,466	\$14,344
	120	86	1465	3045	\$19,545	\$35,204	\$43,087	\$45,508	\$10,280
	144	110	1760	3443	\$23,924	\$39,560	\$48,482	\$51,205	\$11,152
	168	134	2055	3841	\$26,950	\$44,717	\$54,018	\$57,050	\$12,706
72	192	158	2350	4239	\$27,708	\$50,005	\$59,604	\$62,952	\$13,986
	216	182	2640	4637	\$31,617	\$54,224	\$65,177	\$68,835	\$15,934
	120	84	2115	4523	\$29,906	\$52,950	\$55,133	\$58,419	\$11,163
	144	108	2560	5096	\$32,807	\$59,647	\$61,488	\$65,200	\$13,238
72	168	132	2960	5669	\$35,052	\$63,412	\$65,365	\$69,551	\$15,722
	192	156	3385	6242	\$37,754	\$67,271	\$69,343	\$73,905	\$17,175
72	216	180	3800	6815	\$41,031	\$73,262	\$75,519	\$80,501	\$18,614



SINCE 1908

wessels
company

Add FITTINGS, OPENINGS & BASE OPTIONS

STANDARD FITTINGS

ALL CUSTOM TANK PRICES INCLUDE A QUANTITY OF UP TO SIX THREADED OPENINGS PER THE TABLE BELOW. THERE IS NO DEDUCTION ON ANY TANK REQUIRING LESS THAN SIX TAPPINGS.

Tank Diameter (in.)	16-20	24-30	36-42	48-54	60-72
Size Tapping (in.)	1	1 1/2	2	2 1/2	3

Pipe Size (In.)	Forged Steel Threaded	Stainless Steel Threaded	150# Slip-On Flange	150# Slip-On w/Blind Flange
to 1-1/2	\$211.00	\$384.00	\$389.00	\$599.00
2	\$236.00	\$457.00	\$517.00	\$741.00
2 1/2	\$285.00	\$550.00	\$655.00	\$909.00
3	\$331.00	\$635.00	\$792.00	\$1086.00
4	\$411.00	\$792.00	\$1035.00	\$1446.00
5	\$466.00	\$903.00	\$1302.00	\$1856.00
6	\$519.00		\$1565.00	\$2146.00
8			\$2081.00	\$2946.00
10			\$2607.00	\$4289.00
12			\$3121.00	\$5274.00
14			\$3732.00	\$6469.00

INSPECTION OPENINGS

Black Steel – 12 x 16" manhole standard on 42" dia. and larger

Epoxy lined – 11" x 15" manhole standard on 30" dia. and larger

Glass-lined – manhole or handhole is available as optional feature

Cement lined – 11" x 15" manhole standard on 30" dia. and larger

HANDHOLES & MANHOLES

Size (in.)	List Price
4 x 6 Handhole	\$757.00
6 x 8 Handhole	\$1282.00
11 x 15 Manhole	\$2646.00
12 x 16 Manhole	\$3334.00
14 x 18 Manhole	\$3856.00

OTHER FITTINGS

Hold Down Clips – 16" to 36" Dia - \$115 List Adder Each
 – 42" to 60" Dia - \$169 List Adder Ea.
 – 72" Dia - \$235 List Adder Each
Lift Lug – \$110 List Adder Each

BASE OPTIONS

SADDLES

Tank Dia. (in.)	Weight Per Pair (lbs.)	List Price Per Pair	Extra To Weld Saddles
10	10	\$282.00	\$237.00
12	12	\$301.00	\$248.00
14	15	\$308.00	\$260.00
16	21	\$321.00	\$272.00
20	29	\$328.00	\$285.00
24	35	\$361.00	\$302.00
30	49	\$486.00	\$330.00
36	57	\$541.00	\$397.00
42	88	\$1,046.00	\$458.00
48	115	\$1,239.00	\$495.00
54	148	\$1,461.00	\$565.00
60	171	\$2167.00	\$623.00
66	214	\$2409.00	\$688.00
72	257	\$2651.00	\$749.00

FOR ADDITIONAL CLEARANCE, SADDLES CAN BE PROVIDED WITH THREADED FITTINGS FOR PIPE LEGS (NOT INCLUDED).

Tank Diameter	List Adder For Saddle Taps
16" thru 36"	\$460.00
42" thru 72"	\$579.00

BASE RING

Tank Dia. (in.)	Wt. (lbs.)	List Price
16	11	\$502.00
20	20	\$511.00
24	23	\$520.00
30	31	\$533.00
36	52	\$560.00
42	78	\$1172.00
48	139	\$1264.00
54	145	\$1457.00
60	275	\$1592.00
72	480	\$2029.00

BASE CLEARANCE

16" TO 42" DIA. - 7"
 48" TO 72" DIA. - 9"

ANGLE LEGS

Tank Dia. (in.)	Wt. (lbs.)	List Price
16	36	\$858.00
20	36	\$865.00
24	36	\$887.00
30	70	\$1020.00
36	70	\$1329.00
42	120	\$2114.00
48	120	\$2732.00
54	305	\$3213.00
60	305	\$3628.00
72	305	\$4044.00

LEG CLEARANCE - 12"

*ANGLE LEGS
 INCLUDE FOOT PADS.

Add TUBE BUNDLE OPTION

"A" List Price

- Includes collar and heating bundle installed in vessel
- Standard units are furnished with cast iron heads, ¾" O.D. copper tubes, steel tube sheets, steel collars, brass tube supports, gaskets, nuts and bolts
- When ordering, specify "TWC" for water in tubes or "TCS" for steam in tubes
- Standard units are ASME construction

"B" List Price

- Includes only installation price for collars and bundles supplied by customer
- A customer supplied tube bundle/collar must be provided to Wessels freight prepaid with ASME partial data reports prior to fabrication

4" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)	"A" List Price	"B" List Price
TCW-TCS-412	12	2.1	29	\$ 3,602.00	\$ 1,496.00
TCW-TCS-418	18	3.3	30	\$ 3,695.00	\$ 1,496.00
TCW-TCS-424	24	4.5	32	\$ 3,768.00	\$ 1,496.00
TCW-TCS-430	30	5.6	33	\$ 3,899.00	\$ 1,496.00
TCW-TCS-436	36	6.8	35	\$ 4,033.00	\$ 1,536.00
TCW-TCS-442	42	8	36	\$ 4,152.00	\$ 1,578.00
TCW-TCS-448	48	9.2	38	\$ 7,114.00	\$ 1,617.00
TCW-TCS-454	54	10.4	39	\$ 7,293.00	\$ 1,654.00
TCW-TCS-460	60	11.5	41	\$ 7,430.00	\$ 1,694.00
TCW-TCS-466	66	12.7	42	\$ 7,690.00	\$ 1,883.00
TCW-TCS-472	72	13.9	44	\$ 7,785.00	\$ 1,883.00
TCW-TCS-484	84	16.3	47	\$ 8,003.00	\$ 1,883.00
TCW-TCS-496	96	18.6	50	\$ 8,197.00	\$ 1,883.00

6" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)	"A" List Price	"B" List Price
TCW-TCS-612	12	3.3	51	\$ 4,811.00	\$ 1,801.00
TCW-TCS-618	18	5.6	56	\$ 5,011.00	\$ 1,801.00
TCW-TCS-624	24	8	61	\$ 5,184.00	\$ 1,801.00
TCW-TCS-630	30	10.3	66	\$ 5,341.00	\$ 1,801.00
TCW-TCS-636	36	12.7	71	\$ 5,714.00	\$ 1,960.00
TCW-TCS-642	42	15	76	\$ 5,896.00	\$ 1,992.00
TCW-TCS-648	48	17.4	81	\$ 8,898.00	\$ 1,992.00
TCW-TCS-654	54	19.7	86	\$ 9,276.00	\$ 2,182.00
TCW-TCS-660	60	22.1	91	\$ 9,620.00	\$ 2,378.00
TCW-TCS-666	66	24.4	96	\$ 9,839.00	\$ 2,378.00
TCW-TCS-672	72	26.8	101	\$ 9,986.00	\$ 2,378.00
TCW-TCS-684	84	31.5	111	\$ 10,354.00	\$ 2,378.00
TCW-TCS-696	96	36.2	121	\$ 10,706.00	\$ 2,378.00

8" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)	"A" List Price	"B" List Price
TCW-TCS-818	18	11	97	\$ 7,099.00	\$ 2,456.00
TCW-TCS-824	24	15	107	\$ 7,464.00	\$ 2,456.00
TCW-TCS-830	30	19	117	\$ 7,840.00	\$ 2,456.00
TCW-TCS-836	36	23	127	\$ 8,450.00	\$ 2,645.00
TCW-TCS-842	42	27	137	\$ 8,982.00	\$ 2,762.00
TCW-TCS-848	48	32	147	\$ 12,315.00	\$ 2,868.00
TCW-TCS-854	54	36.5	157	\$ 12,766.00	\$ 2,953.00
TCW-TCS-860	60	41	167	\$ 13,247.00	\$ 3,029.00
TCW-TCS-866	66	45	177	\$ 13,674.00	\$ 3,029.00
TCW-TCS-872	72	49	187	\$ 14,057.00	\$ 3,029.00
TCW-TCS-884	84	58	207	\$ 14,871.00	\$ 3,029.00
TCW-TCS-890	96	67	227	\$ 15,673.00	\$ 3,029.00

10" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)	"A" List Price	"B" List Price
TCW-TCS-1024	24	27	198	\$ 10,304.00	\$ 3,170.00
TCW-TCS-1030	30	34.5	209	\$ 10,940.00	\$ 3,170.00
TCW-TCS-1036	36	42	220	\$ 11,562.00	\$ 3,170.00
TCW-TCS-1042	42	49.5	231	\$ 12,172.00	\$ 3,199.00
TCW-TCS-1048	48	56	242	\$ 15,706.00	\$ 3,251.00
TCW-TCS-1054	54	63.5	243	\$ 16,381.00	\$ 3,319.00
TCW-TCS-1060	60	71	264	\$ 17,131.00	\$ 3,442.00
TCW-TCS-1066	66	78.5	275	\$ 17,866.00	\$ 3,555.00
TCW-TCS-1072	72	86	286	\$ 18,594.00	\$ 3,668.00
TCW-TCS-1084	84	101	308	\$ 20,070.00	\$ 3,786.00
TCW-TCS-1096	96	116	330	\$ 21,336.00	\$ 3,786.00

12" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)	"A" List Price	"B" List Price
TCW-TCS-1236	36	61	297	\$ 15,420.00	\$ 3,883.00
TCW-TCS-1242	42	72	321	\$ 16,310.00	\$ 3,956.00
TCW-TCS-1248	48	83	345	\$ 19,952.00	\$ 3,996.00
TCW-TCS-1254	54	94	369	\$ 20,858.00	\$ 4,072.00
TCW-TCS-1260	60	104	393	\$ 21,769.00	\$ 4,183.00
TCW-TCS-1266	66	115	417	\$ 22,683.00	\$ 4,301.00
TCW-TCS-1272	72	126	441	\$ 23,622.00	\$ 4,419.00
TCW-TCS-1278	78	137	465	\$ 24,676.00	\$ 4,647.00
TCW-TCS-1284	84	147	489	\$ 25,459.00	\$ 4,647.00
TCW-TCS-1296	96	169	537	\$ 27,091.00	\$ 4,647.00

COIL DATA

Unit Diameter (in.)	Working Pressure (psi)	WATER IN TUBES		STEAM IN TUBES	
		Inlet NPT (in.)	Outlet NPT (in.)	Inlet NPT (in.)	Outlet NPT (in.)
4	150	1 1/4	1 1/4	1 1/4	3/4
6	150	2	2	2	1
8	150	3	3	3	1 1/4
10	125	4	4	4	2
12	125	4	4	4	2

MAXIMUM OPERATING TEMPERATURE: 375°F

NOTES: 1. For vertical installation, select coil with required square foot area but with tube bundle not to exceed tank diameter.
2. Larger tube bundle diameters, 1 ¼" bundles and double wall bundles available on request.

Thermal tanks are used to absorb the additional volume of potable water created by a domestic water heater. Properly sized, the tank will maintain system pressures below relief valve settings. Typically used in **domestic water heating** systems or other systems where **corrosive system fluid requires stainless or corrosive resistant wetted parts**.

SIZING THERMAL EXPANSION TANKS

To properly size a thermal expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons) – Includes water heater(s) and re-circ. line volume
- Minimum In-coming Water Temperature (in degrees F)
- Maximum Water Heater Set-point Temperature (in degrees F)
- Minimum Static Water Pressure (in psig)
- Maximum Safe Pressure (in psig) – Typically relief valve less 10%

Use the following form and acceptance factor table to calculate tank sizing by hand or visit www.westank.com/calculator to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

SYS. VOL. = WATER HEATER & RECIRC. VOL.		GAL.
EXPANSION FACTOR		
CALCULATE ACCEPTANCE VOLUME (SYS. VOL. X EXP. FACTOR)		GAL.
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME (ACCEPTANCE VOLUME/AF)		GAL
SELECT MODEL		

EXPANSION FACTOR TABLE

MIN. SYSTEM TEMPERATURE (DEG. F)

	40	50	60	70	80
50	0.00006				
60	0.00055	0.00049			
70	0.00149	0.00143	0.00094		
80	0.00260	0.00254	0.00205	0.00111	
90	0.00405	0.00399	0.00350	0.00256	0.00145
100	0.00575	0.00569	0.00520	0.00426	0.00315
110	0.00771	0.00765	0.00716	0.00622	0.00511
120	0.01004	0.00998	0.00949	0.00855	0.00744
130	0.01236	0.01230	0.01181	0.01087	0.00976
140	0.01501	0.01495	0.01446	0.01352	0.01241
150	0.01787	0.01779	0.01730	0.01636	0.01525
160	0.02092	0.02086	0.02037	0.01943	0.01814
170	0.02418	0.02412	0.02363	0.02269	0.02158
180	0.02763	0.02757	0.02708	0.02614	0.02503
190	0.03127	0.03121	0.03072	0.02978	0.02867

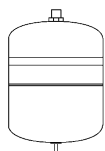
ACCEPTANCE FACTOR

MAX. PRESSURE (PSIG)

	70	80	90	100	110	120	130	140	150
20	0.590	0.634	0.669	0.697	0.722	0.742	0.760	0.776	0.789
30	0.472	0.528	0.573	0.610	0.642	0.668	0.691	0.711	0.729
40	0.354	0.422	0.478	0.523	0.561	0.594	0.622	0.646	0.668
50	0.236	0.317	0.382	0.436	0.481	0.520	0.553	0.582	0.607
60	0.118	0.211	0.287	0.349	0.401	0.445	0.484	0.517	0.546
70		0.106	0.191	0.262	0.321	0.371	0.415	0.452	0.486
80			0.096	0.174	0.241	0.297	0.346	0.388	0.425
90				0.087	0.160	0.223	0.276	0.323	0.364



T THERMAL EXPANSION TANKS – Non-ASME



NON-ASME



LISTED MATERIALS



MODELS LISTED

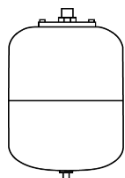
T-5 T-12
T-25 T-30

FIXED DIAPHRAGM

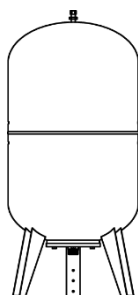
Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
T-5	32010005	\$ 86.00	2.1	1.3	7.9	10.8	3/4	5
T-12	32010012	\$ 121.00	4.8	2.9	10.6	13.7	3/4	9
T-25	32010025	\$ 268.00	9.3	5.5	15.0	15.7	1	18
T-30	32010030	\$ 369.00	13.2	7.8	15.0	21.1	1	23
T-42V	32010042	\$ 446.00	21	12.5	17.7	23.6	1	33
T-60V	32010060	\$ 677.00	40	23.8	19.7	35.2	1 1/4	60
T-80V	32010080	\$ 854.00	53	31.5	23.6	33.9	1 1/4	81
T-180V	32010180	\$ 1,036.00	79	46.9	24.8	44.7	1 1/4	105
T-260V	32010260	\$ 1,431.00	106	63	24.8	57.1	1 1/4	145
T-325V	32010325	\$ 1,802.00	132	78.4	29.5	53.1	1 1/4	190

Materials = Steel with Epitaxial® Inner Liner, Heavy Duty Butyl Diaphragm;
Maximum Pressure = 150 PSIG; Maximum Temperature = 200°F;
Finish = Blue Powder Coat Exterior; Factory Pre-charge = 30 PSIG

TX THERMAL EXPANSION TANKS – Non-ASME



NON-ASME



NON-ASME

REMOVABLE BLADDER

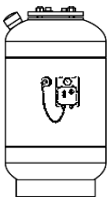
Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
5TX	33022050	\$ 111.00	2.1	2.1	7.9	12.9	3/4	6
12TX	33022120	\$ 152.00	4.8	4.8	10.6	16.2	3/4	9
25TX	33022250	\$ 302.00	10.6	10.6	12.6	22.5	1	22
30TX	33022300	\$ 375.00	15.8	15.8	15	28.7	1	31
42TX	33022420	\$ 441.00	21.1	21.1	17.7	28.9	1	35
60TX	33022600	\$ 570.00	26.4	26.4	17.7	31.1	1	45
80TX	33022800	\$ 807.00	52.8	52.8	21.6	42.5	1 1/2	84
180TX	33022900	\$ 975.00	79.2	79.2	24.8	46.3	1 1/2	111

Materials = Steel, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240°F; Finish = Red Powder Coat Exterior;
Factory Pre-charge = 30 PSIG



Smart Tank Series: TXA with WessGuard®

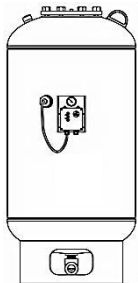
Smart Tank Series TXA-WG are ASME removable bladder type pre-charged thermal expansion tanks with **WessGuard®** bladder monitor. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system's expanded water is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. If the system creates a condition that extends the bladder beyond the normal movement, **WessGuard®** monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.



ASME

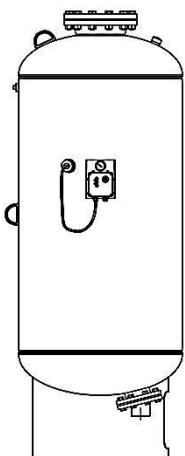
REMOVABLE BLADDER TANK – ASME – 150 PSI

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA-35-WG	60010035	\$ 3,416.00	10	10	12	25	3/4	40
TXA-50-WG	60010050	\$ 3,610.00	13	13	14	25	3/4	50



ASME

TXA-85-WG	60010085	\$ 3,724.00	23	23	16	37	1	90
TXA-130-WG	60010130	\$ 4,108.00	35	35	20	37	1	132
TXA-200-WG	60010200	\$ 5,269.00	53	53	24	43	1 1/2	220
TXA-300-WG	60010300	\$ 7,058.00	79	79	24	55	1 1/2	236
TXA-400-WG	60010400	\$ 8,083.00	106	106	30	49	1 1/2	315
TXA-500-WG	60010500	\$ 8,416.00	132	132	30	57	2	347
TXA-600-WG	60010600	\$ 9,401.00	158	158	30	65	2	378
TXA-800L-WG	60010805	\$ 10,586.00	211	211	32	76	2	503



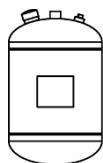
ASME

TXA-1000-WG	60011000	\$ 12,282.00	264	264	36	74	3	795
TXA-1200-WG	60011200	\$ 12,641.00	317	317	36	86	3	820
TXA-1400-WG	60011400	\$ 13,751.00	370	370	36	99	3	980
TXA-1600-WG	60011600	\$ 17,693.00	422	422	48	72	3	1395
TXA-2000-WG	60012000	\$ 18,846.00	528	528	48	85	3	1525

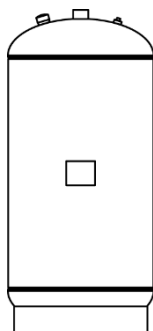
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts

TTA THERMAL EXPANSION TANKS – ASME



ASME



ASME

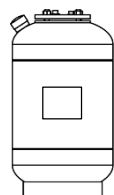
FIXED DIAPHRAGM

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TTA-5	18020005	\$ 1,116.00	3.5	2.3	10	14	3/4	22
TTA-12	18020012	\$ 1,288.00	5.0	3.3	12	14	3/4	28

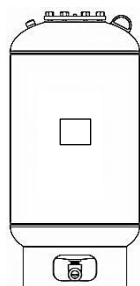
TTA-20	18020020	\$ 1,435.00	8.0	5.3	12	20	3/4	34
TTA-30	18020030	\$ 1,639.00	15.0	10.0	16	24	1	64
TTA-42	18020042	\$ 1,770.00	22.0	14.5	16	31	1	88
TTA-60	18020060	\$ 2,143.00	26.0	17.5	16	34	1	93
TTA-80	18020080	\$ 2,283.00	35.0	23.5	16	45	1	109
TTA-100	18020100	\$ 2,607.00	45.0	30.0	20	39	1	148
TTA-125	18020125	\$ 2,917.00	60.0	40.0	20	50	1	175
TTA-160	18020160	\$ 3,276.00	70.0	47.0	24	47	1 1/2	259
TTA-180	18020180	\$ 3,571.00	80.0	53.0	24	50	1 1/2	268
TTA-210	18020210	\$ 3,750.00	90.0	60	24	53	1 1/2	283

Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

TXA THERMAL EXPANSION TANKS – ASME



ASME



ASME

REMOVABLE BLADDER

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA 35	20010035	\$ 2,784.00	10	10	12	23 1/2	3/4	40
TXA 50	20010050	\$ 2,976.00	13	13	14	24	3/4	50

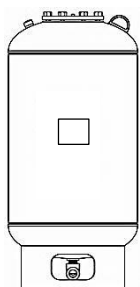
TXA 85	20010085	\$ 3,088.00	23	23	16	37	1	90
TXA 130	20010130	\$ 3,317.00	35	35	20	37	1	132
TXA 200	20010200	\$ 4,432.00	53	53	24	43	1 1/2	220
TXA 300	20010300	\$ 6,111.00	79	79	24	55	1 1/2	236
TXA 400	20010400	\$ 7,160.00	106	106	30	49	1 1/2	315
TXA 500	20010500	\$ 7,494.00	132	132	30	57	2	347
TXA 600	20010600	\$ 8,434.00	158	158	30	65	2	378
TXA 800L	20010805	\$ 9,302.00	211	211	32	76	2	503

TXA 1000	20011000	\$ 10,963.00	264	264	36	86 1/2	3	795
TXA 1200	20011200	\$ 11,307.00	317	317	36	98 1/2	3	820
TXA 1400	20011400	\$ 12,424.00	370	370	36	110 1/2	3	980
TXA 1600	20011600	\$ 16,356.00	422	422	48	84	3	1395
TXA 2000	20012000	\$ 17,489.00	528	528	48	96	3	1525

Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

TXA-FF Full Flow (Flow-Through) – ASME

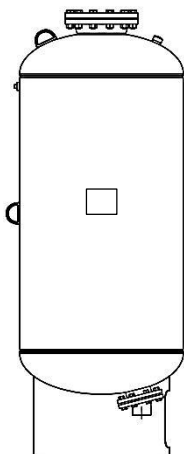
Wessels type TXA-FF tanks are ASME removable bladder type pre-charged tanks designed as a multifunctional bladder for controlling system pressures in Thermal Expansion, Hydronic Expansion, and Hydro-Pneumatic applications. The TXA-FF design incorporates a unique flow-through design that promotes fluid mixing. Mixing of the fluid inside the bladder tank disrupts stagnant water, preventing growth of potentially harmful bacteria colonies. The water is contained in a heavy-duty butyl bladder, preventing tank corrosion and waterlogging.



ASME

REMOVABLE BLADDER TANK – 150 PSI

Model	Part No.	List (\$)	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA-85-FF	20110085	\$ 3,724.00	23	23	16	37	1	90
TXA-130-FF	20110130	\$ 4,108.00	35	35	20	37	1	132
TXA-200-FF	20110200	\$ 5,269.00	53	53	24	43	1 1/2	220
TXA-300-FF	20110300	\$ 7,058.00	79	79	24	55	1 1/2	236
TXA-400-FF	20110400	\$ 8,083.00	106	106	30	49	1 1/2	315
TXA-500-FF	20110500	\$ 8,416.00	132	132	30	57	2	347
TXA-600-FF	20110600	\$ 9,401.00	158	158	30	65	2	378
TXA-800L-FF	20110805	\$ 10,586.00	211	211	32	76	2	503



ASME

TXA-1000-FF	20111000	\$ 12,282.00	264	264	36	74	3	710
TXA-1200-FF	20111200	\$ 12,641.00	317	317	36	86	3	720
TXA-1400-FF	20111400	\$ 13,751.00	370	370	36	99	3	875
TXA-1600-FF	20111600	\$ 17,693.00	422	422	48	72	3	1100
TXA-2000-FF	20112000	\$ 18,846.00	528	528	48	85	3	1280

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

WESSGUARD® RETROFIT FOR TXA

The bladder-style thermal expansion tank function is to accept expanded water created during the heating process that occurs in a domestic water heating system. The properly sized thermal expansion tank will control pressure increases in the water heating system based on the captured compressible air chamber within the tank to the designer's acceptable limits.

Factors that can affect the pressures in the water heating system:

Properly sized thermal expansion tank

Properly installed and pre-charge adjusted thermal expansion tank

Fluctuations in line pressure

Water heater temperature range fluctuations

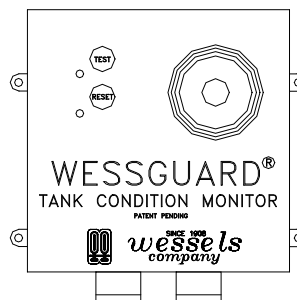
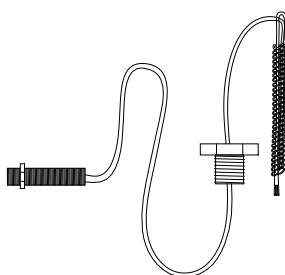
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. **WessGuard®** was developed to monitor the fluid within the thermal expansion tank by determining excessive movement of the vessel bladder. **WessGuard®** incorporates a capacitive proximity sensor that determines if fluid levels in the thermal expansion tank exceed "normal" operating conditions. Furthermore, if a thermal expansion tank bladder is compromised, **WessGuard®** monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - TXA

Model	Part No.	List (\$)	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	\$ 1,095.00	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER



Specify Standard or WessGuard-2® with Phone Texting Alerts



TX REPLACEMENT BLADDERS & COVERS

Model	Bladder		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
5TX	0330005	\$ 56.00	NA	NA	0550005	\$ 48.00
12TX	0330012	\$ 81.00	NA	NA	0550012	\$ 52.00
25TX	0330025	\$ 111.00	NA	NA	0550025	\$ 54.00
30TX	0330030	\$ 227.00	NA	NA	0550030	\$ 54.00
42TX	0330042	\$ 269.00	NA	NA	0550042	\$ 68.00
60TX	0330060	\$ 417.00	NA	NA	0550060	\$ 68.00
80TX	0330080	\$ 633.00	NA	NA	0550080	\$ 79.00
180TX	0330180	\$ 805.00	NA	NA	0550180	\$ 79.00

TXA REPLACEMENT BLADDERS & COVERS

Model	BLADDER		Bottom Assembly		Top Assembly	
	Part No.	List (\$)	Part No.	List (\$)	Part No.	List (\$)
TXA 35	02200035	\$ 395.00	0420035	NA	0520035	\$ 336.00
TXA 50	02200050	\$ 635.00	0420050	NA	0520050	\$ 336.00
TXA 85	02200085	\$ 1,142.00	0420085	\$ 350.00	0520085	\$ 336.00
TXA 130	02200130	\$ 1,648.00	0420130	\$ 350.00	0520130	\$ 336.00
TXA 200	02200200	\$ 2,077.00	0420200	\$ 502.00	0520200	\$ 447.00
TXA 300	02200300	\$ 3,057.00	0420300	\$ 502.00	0520300	\$ 447.00
TXA 400	02200400	\$ 3,596.00	0420400	\$ 502.00	0520400	\$ 447.00
TXA 500	02200500	\$ 3,732.00	0420500	\$ 630.00	0520500	\$ 590.00
TXA 600	02200600	\$ 3,205.00	0420600	\$ 630.00	0520600	\$ 590.00
TXA 800L	02200805	\$ 3,636.00	0420800	\$ 630.00	0520800	\$ 590.00
TXA 1000	02201000	\$ 3,711.00	0421000	\$ 923.00	0521000	\$ 889.00
TXA 1200	02201200	\$ 3,950.00	0421200	\$ 923.00	0521200	\$ 889.00
TXA 1400	02201400	\$ 4,224.00	0421400	\$ 923.00	0521400	\$ 889.00
TXA 1600	02201600	\$ 4,528.00	0421600	\$ 1,062.00	0521600	\$ 974.00
TXA 2000	02202000	\$ 4,626.00	0422000	\$ 1,062.00	0522000	\$ 974.00



