SINCE 1908

wessels company

Reference Catalog

March, 2022

101 Tank Street | Greenwood, IN 46143 | westank.com | p: 317-888-9800

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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 preapproved accounts. New accounts must be prepaid 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 ab normal 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 main tained 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

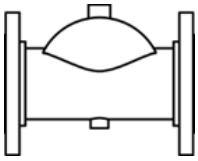
		HVAC Boiler Chiller Closed-loop	DOMESTIC HOT WATER Water Heaters Hot Potable Open System	WELL WATER & PRESSURE BOOSTER Cold Potable Open System
NON-ASME	Compression	CUSTOM ORDER (pg 82)	CUSTOM ORDER (pg 82)	CUSTOM ORDER (pg 82)
	Diaphragm	N (pg 48)	T (pg 18)	CUSTOM ORDER (pg 82)
	Removable Bladder	NL (pg 48)	TX (pg 18)	FX (pg 86)
ASME	Compression	NA (pg 49)	CUSTOM ORDER (pg 82)	NAG (pg 50)
	Diaphragm	NTA (pg 51)	TTA (pg 19)	FXT (pg 86)
	Removable Bladder	NLAP (pg 51) NLA (pg 52-54)	TXA (pg 19)	FXA (pg 87-89)

AIR & DIRT ELIMINATION EQUIPMENT

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.

AP INLINE AIR PURGERS — NON-ASME

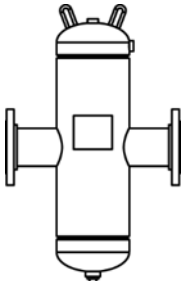
AIR PURGERS - FABRICATED STEEL



Model	Part Number	Pressure Rating (PSI)	Product Dimensions (in)			System Connection		Max GPM	Tappings (in)		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		Top	Bottom		
AP-104	37620040	150	12	8	5	4	FLANGE	300	3/4	1/2	35	2 Weeks
AP-105	37620050	150	20	10	7 1/2	5	FLANGE	530	1 1/4	1 1/2	56	2 Weeks
AP-106	37620060	150	24	12	8 1/2	6	FLANGE	850	1 1/4	1 1/2	77	2 Weeks
AP-108	37620080	150	32	16	11 1/4	8	FLANGE	1900	1 1/4	1 1/2	135	4 Weeks
AP-110	37620100	150	40	20	14	10	FLANGE	3200	1 1/4	1 1/2	213	4 Weeks
AP-112	37620120	150	48	24	16 3/4	12	FLANGE	4800	1 1/4	1 1/2	315	4 Weeks
AP-114	37620140	150	56	28	19 1/4	14	FLANGE	6100	1 1/4	1 1/2	430	4 Weeks
AP-116	37620160	150	64	32	21 1/4	16	FLANGE	8000	1 1/4	1 1/2	553	4 Weeks
AP-118	37620180	150	72	36	23 1/2	18	FLANGE	9700	1 1/4	1 1/2	662	4 Weeks
AP-120	37620205	150	80	40	26 3/4	20	FLANGE	12000	1 1/4	1 1/2	832	4 Weeks
AP-124	37620240	150	96	48	33 3/4	24	FLANGE	17000	1 1/4	1 1/2	1368	4 Weeks

Notes: Materials = Fabricated Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior; Conforms to ASME requirements. Lead time may vary depending on material availability: For Stainless steel versions go to page 71.

WVN-N WESS-VENT NON-REMOVABLE — NON-ASME



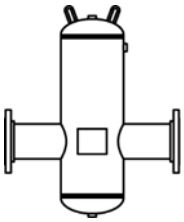
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVN-2N	74080020	150	4	15 1/4	23	2	FLANGE	69	76	2 Weeks
WVN-2.5N	74080025	150	5	15 3/4	23	2 1/2	FLANGE	108	99	2 Weeks
WVN-3N	74080030	150	6	20 1/4	29	3	FLANGE	144	114	2 Weeks
WVN-4N	74080040	150	8	20 5/8	29	4	FLANGE	255	194	2 Weeks
WVN-5N	74080050	150	10	27 3/4	39	5	FLANGE	398	230	2 Weeks
WVN-6N	74080060	150	12	27 3/4	39	6	FLANGE	570	255	2 Weeks
WVN-8N	74080080	150	16	33 5/8	49	8	FLANGE	945	514	3 Weeks
WVN-10N	74080100	150	20	37 1/2	65	10	FLANGE	1440	770	3 Weeks
WVN-12N	74080120	150	24	42 1/2	76	12	FLANGE	2100	1080	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

WVNA WESS-VENT NON-REMOVABLE — NON-ASME

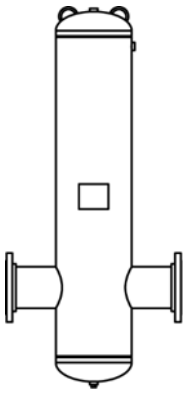


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVNA-2	72314002	150	4	15 1/4	18 1/2	2	FLANGE	69	35	3 Weeks
WVNA-2.5	72314026	150	5	15 3/4	18 1/2	2 1/2	FLANGE	108	61	3 Weeks
WVNA-3	72314050	150	6	20 1/4	23	3	FLANGE	144	71	3 Weeks
WVNA-4	72314074	150	8	20 5/8	23	4	FLANGE	255	105	3 Weeks
WVNA-5	72314098	150	10	27 3/4	31	5	FLANGE	398	92	3 Weeks
WVNA-6	72314110	150	12	27 3/4	31	6	FLANGE	570	129	3 Weeks
WVNA-8	72314122	150	16	33 5/8	36	8	FLANGE	945	225	3 Weeks
WVNA-10	72314134	150	20	37 1/2	46	10	FLANGE	1440	375	3 Weeks
WVNA-12	72314146	150	24	42 1/2	54	12	FLANGE	2100	564	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

WVNA-HV WESS-VENT NON-REMOVABLE — NON-ASME

HIGH VELOCITY MODELS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVNA-2HV	72315002	150	4	15 1/4	23	2	FLANGE	105	40	3 Weeks
WVNA-2.5HV	72315026	150	5	15 3/4	23	2 1/2	FLANGE	155	68	3 Weeks
WVNA-3HV	72315050	150	6	20 1/4	30	3	FLANGE	225	82	3 Weeks
WVNA-4HV	72315074	150	8	20 5/8	30	4	FLANGE	405	122	3 Weeks
WVNA-5HV	72315098	150	10	27 3/4	41	5	FLANGE	630	128	3 Weeks
WVNA-6HV	72315110	150	12	27 3/4	41	6	FLANGE	910	140	3 Weeks
WVNA-8HV	72315122	150	16	33 5/8	49	8	FLANGE	1610	245	3 Weeks
WVNA-10HV	72315134	150	20	37 1/2	60	10	FLANGE	2450	407	3 Weeks
WVNA-12HV	72315146	150	24	42 1/2	71	12	FLANGE	3500	612	3 Weeks

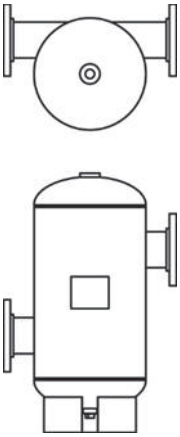
Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

SPA TANGENTIAL AIR SEPARATORS — ASME

LESS STRAINER

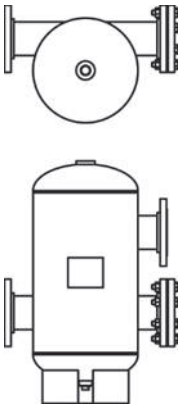


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	Weight (lbs)	Lead Time
SPA-2	72006019	125	12	16 5/8	22 1/2	2	NPT	56	50	2 Weeks
SPA-2.5	72006025	125	12	16 5/8	22 1/2	2 1/2	NPT	90	55	2 Weeks
SPA-3	72006030	125	12	19 3/4	25	3	FLANGE	190	60	2 Weeks
SPA-4	72006035	125	14	21 3/4	32	4	FLANGE	300	90	2 Weeks
SPA-5	72016036	125	14	21 3/4	32	5	FLANGE	530	148	2 Weeks
SPA-6	72016060	125	20	28	44	6	FLANGE	850	191	2 Weeks
SPA-8	72016080	125	20	28	44	8	FLANGE	1900	379	2 Weeks
SPA-10	72030010	125	30	41	60 1/2	10	FLANGE	3200	598	3 Weeks
SPA-12	72030012	125	30	41	60 1/2	12	FLANGE	4800	947	3 Weeks
SPA-14	72072014	125	36	46 3/8	78	14	FLANGE	6100	1680	3 Weeks
SPA-16	72072016	125	48	60	108	16	FLANGE	8000	2300	4 Weeks
SPA-18	72072018	125	54	66	124	18	FLANGE	9700	3235	4 Weeks
SPA-20	72072020	125	60	72	138	20	FLANGE	12000	5100	4 Weeks
SPA-22	72072022	125	66	78	150	22	FLANGE	15000	6150	4 Weeks
SPA-24	72072024	125	66	80	150	24	FLANGE	17000	7210	4 Weeks

Notes: Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450ºF ; Finish = Primer Painted Exterior. Lead time may vary depending on material availability. For stainless steel versions go to page 66.

SPA-S TANGENTIAL AIR SEPARATORS — ASME

WITH STRAINER

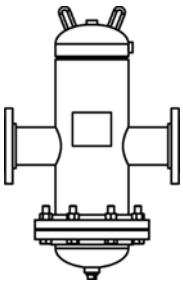


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	Weight (lbs)	Lead Time
SPA-2S	72072102	125	12	16 5/8	22 1/2	2	NPT	56	55	2 Weeks
SPA-2.5S	72072125	125	12	16 5/8	22 1/2	2 1/2	NPT	90	61	2 Weeks
SPA-3S	72072103	125	12	19 3/4	25	3	FLANGE	190	66	2 Weeks
SPA-4S	72072104	125	14	21 3/4	32	4	FLANGE	300	99	2 Weeks
SPA-5S	72072105	125	14	21 3/4	32	5	FLANGE	530	163	2 Weeks
SPA-6S	72072106	125	20	28	44	6	FLANGE	850	210	2 Weeks
SPA-8S	72072108	125	20	28	44	8	FLANGE	1900	417	2 Weeks
SPA-10S	72072110	125	30	41	60 1/2	10	FLANGE	3200	658	3 Weeks
SPA-12S	72072112	125	30	41	60 1/2	12	FLANGE	4800	1042	3 Weeks
SPA-14S	72072114	125	36	46 3/8	78	14	FLANGE	6100	1848	3 Weeks
SPA-16S	72072116	125	48	60	108	16	FLANGE	8000	2530	4 Weeks
SPA-18S	72072118	125	54	66	124	18	FLANGE	9700	3559	4 Weeks
SPA-20S	72072120	125	60	72	138	20	FLANGE	12000	5610	4 Weeks
SPA-22S	72072122	125	66	78	150	22	FLANGE	15000	6765	4 Weeks
SPA-24S	72072124	125	66	80	150	24	FLANGE	17000	7931	4 Weeks

Notes: Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450ºF ; Finish = Primer Painted Exterior. Lead time may vary depending on material availability. For stainless steel version go to page 71-72.

AIR & DIRT ELIMINATION EQUIPMENT

WVA WESS-VENT AIR & DIRT SEPARATORS — ASME

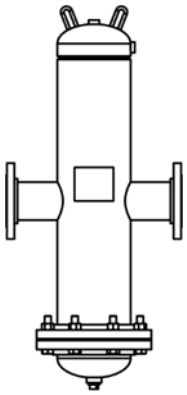


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2	72302001	150	9	15 1/4	23	2	FLANGE	69	100	2 Weeks
WVA-2.5	72302035	150	10	15 3/4	23	2 1/2	FLANGE	108	125	2 Weeks
WVA-3	72302069	150	11	20 1/4	29	3	FLANGE	144	150	2 Weeks
WVA-4	72302103	150	13 1/2	20 5/8	29	4	FLANGE	255	250	2 Weeks
WVA-5	72302137	150	16	27 3/4	39	5	FLANGE	398	310	2 Weeks
WVA-6	72302160	150	19	27 3/4	39	6	FLANGE	570	375	2 Weeks
WVA-8	72302183	150	23 1/2	33 5/8	49	8	FLANGE	945	700	3 Weeks
WVA-10	72302206	150	27 1/2	37 1/2	65	10	FLANGE	1440	1000	3 Weeks
WVA-12	72302229	150	32	42 1/2	76	12	FLANGE	2100	1500	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

WVA-HV WESS-VENT AIR & DIRT SEPARATORS — ASME

HIGH VELOCITY MODELS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2HV	72303001	150	9	15 1/4	33	2	FLANGE	105	110	2 Weeks
WVA-2.5HV	72303035	150	10	15 3/4	33	2 1/2	FLANGE	155	140	2 Weeks
WVA-3HV	72303070	150	11	20 1/4	42	3	FLANGE	225	175	2 Weeks
WVA-4HV	72303104	150	13 1/2	20 5/8	42	4	FLANGE	405	275	2 Weeks
WVA-5HV	72303138	150	16	27 3/4	59	5	FLANGE	630	475	2 Weeks
WVA-6HV	72303161	150	19	27 3/4	59	6	FLANGE	910	525	2 Weeks
WVA-8HV	72303184	150	23 1/2	33 5/8	75	8	FLANGE	1610	825	3 Weeks
WVA-10HV	72303207	150	27 1/2	37 1/2	92	10	FLANGE	2450	1275	3 Weeks
WVA-12HV	72303230	150	32	42 1/2	110	12	FLANGE	3500	2050	3 Weeks

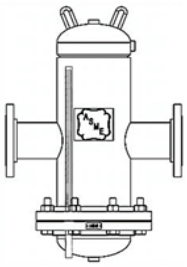
Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

WVA-MAX WESS-VENT AIR & DIRT SEPARATOR PACKAGE — ASME

5 YEAR WARRANTY WITH SINGLE WESMAG ELEMENT



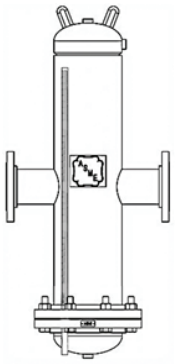
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2-MAX	73180020M	150	9	15 1/4	23	2	FLANGE	75	110	2 Weeks
WVA-2.5-MAX	73180025M	150	10	15 3/4	23	2 1/2	FLANGE	120	138	2 Weeks
WVA-3-MAX	73180030M	150	11	20 1/4	29	3	FLANGE	168	165	2 Weeks
WVA-4-MAX	73180040M	150	13 1/2	20 5/8	29	4	FLANGE	295	270	2 Weeks
WVA-5-MAX	73180050M	150	16	27 3/4	39	5	FLANGE	450	335	2 Weeks
WVA-6-MAX	73180060M	150	19	27 3/4	39	6	FLANGE	650	405	2 Weeks
WVA-8-MAX	73180080M	150	23 1/2	33 5/8	49	8	FLANGE	1125	740	3 Weeks
WVA-10-MAX	73180100M	150	27 1/2	37 1/2	65	10	FLANGE	1775	1050	3 Weeks
WVA-12-MAX	73180120M	150	32	42 1/2	76	12	FLANGE	2545	1560	3 Weeks

Notes: 5 Year Extended Warranty. Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Neodymium magnets – 12,000 gauss (multiple wells for 2-1/2" to 12"). U.S. Patent No. 10,708,538. Lead time may vary depending on material availability.

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

WVA-HV-MAX WESS-VENT MAGNETIC SEPARATION — ASME

HIGH VELOCITY MODELS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2HV-MAX	73180023M	150	9	15 1/4	33	2	FLANGE	120	120	2 Weeks
WVA-2.5HV-MAX	73180027M	150	10	15 3/4	33	2 1/2	FLANGE	172	150	2 Weeks
WVA-3HV-MAX	73180032M	150	11	20 1/4	42	3	FLANGE	265	205	2 Weeks
WVA-4HV-MAX	73180042M	150	13 1/2	20 5/8	42	4	FLANGE	456	315	2 Weeks
WVA-5HV-MAX	73180051M	150	16	27 3/4	59	5	FLANGE	717	525	2 Weeks
WVA-6HV-MAX	73180061M	150	19	27 3/4	59	6	FLANGE	1036	585	2 Weeks
WVA-8HV-MAX	73180081M	150	23 1/2	33 5/8	75	8	FLANGE	1792	905	3 Weeks
WVA-10HV-MAX	73180101M	150	27 1/2	37 1/2	92	10	FLANGE	2828	1375	3 Weeks
WVA-12HV-MAX	73180121M	150	32	42 1/2	110	12	FLANGE	4053	2170	3 Weeks

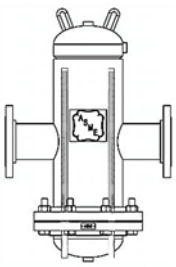
Notes: 5 Year Extended Warranty. Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Neodymium magnets – 12,000 gauss (multiple wells for 2-1/2" to 12"). U.S. Patent No. 10,708,538. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

WVA-WM2 WESS-VENT MAGNETIC SEPARATION — ASME

MULTIPLE WESMAG ELEMENT - 150 PSI



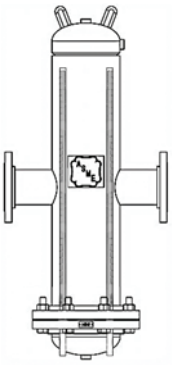
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2-WM2	74380020	150	9	15 1/4	23	2	FLANGE	69	110	2 Weeks
WVA-2.5-WM2	74380025	150	10	15 3/4	23	2 1/2	FLANGE	108	150	2 Weeks
WVA-3-WM2	74380030	150	11	20 1/4	29	3	FLANGE	144	180	2 Weeks
WVA-4-WM2	74380040	150	13 1/2	20 5/8	29	4	FLANGE	255	310	2 Weeks
WVA-5-WM2	74380050	150	16	27 3/4	39	5	FLANGE	398	410	2 Weeks
WVA-6-WM2	74380060	150	19	27 3/4	39	6	FLANGE	570	480	2 Weeks
WVA-8-WM2	74380080	150	23 1/2	33 5/8	49	8	FLANGE	945	815	3 Weeks
WVA-10-WM2	74380100	150	27 1/2	37 1/2	65	10	FLANGE	1440	1200	3 Weeks
WVA-12-WM2	74380120	150	32	42 1/2	76	12	FLANGE	2100	1760	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Neodymium magnets – 12,000 gauss (multiple wells for 2-1/2" to 12"). Lead time may vary depending on material availability.

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

WVA-HV WESS-VENT MAGNETIC SEPARATION — ASME

HIGH VELOCITY MODELS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVA-2HV-WM2	74380022	150	9	15 1/4	33	2	FLANGE	105	120	2 Weeks
WVA-2.5HV-WM2	74380027	150	10	15 3/4	33	2 1/2	FLANGE	155	200	2 Weeks
WVA-3HV-WM2	74380032	150	11	20 1/4	42	3	FLANGE	225	265	2 Weeks
WVA-4HV-WM2	74380042	150	13 1/2	20 5/8	42	4	FLANGE	405	435	2 Weeks
WVA-5HV-WM2	74380051	150	16	27 3/4	59	5	FLANGE	630	675	2 Weeks
WVA-6HV-WM2	74380061	150	19	27 3/4	59	6	FLANGE	910	765	2 Weeks
WVA-8HV-WM2	74380081	150	23 1/2	33 5/8	75	8	FLANGE	1610	1145	3 Weeks
WVA-10HV-WM2	74380101	150	27 1/2	37 1/2	92	10	FLANGE	2450	1675	3 Weeks
WVA-12HV-WM2	74380121	150	32	42 1/2	110	12	FLANGE	3500	2530	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Neodymium magnets – 12,000 gauss (multiple wells for 2-1/2" to 12"). Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

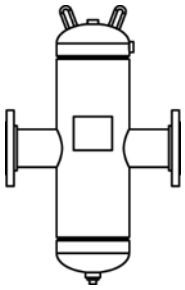
WVA WESS-VENT TRIM PACKAGES — ASME

Model WVA-2 Thru WVA-36

Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	Connection Type (NPT/FLG)	Weight (lbs)	Lead Time
WVA 2-6	74099991	150	3/4	1 1/2	1/2	FLANGE	8	1 Week
WVA 8-14	74099993	150	3/4	1	1/2	FLANGE	9	1 Week
WVA 16-36	74099995	150	3/4	2	1	FLANGE	12	1 Week

Notes: Includes Air Vent, Skim Valve and Blow Down Valve. Lead time may vary depending on material availability.

WVAN WESS-VENT NON-REMOVABLE — ASME

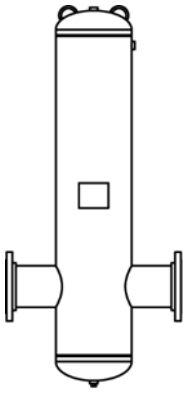


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	Weight (lbs)	Lead Time
WVAN-2	72308001	150	6	15 1/4	23	2	FLANGE	69	76	2 Weeks
WVAN-2.5	72308034	150	7	15 3/4	23	2 1/2	FLANGE	108	99	2 Weeks
WVAN-3	72308067	150	7 1/2	20 1/4	29	3	FLANGE	144	114	2 Weeks
WVAN-4	72308100	150	9	20 5/8	29	4	FLANGE	255	194	2 Weeks
WVAN-5	72308133	150	10	27 3/4	39	5	FLANGE	398	230	2 Weeks
WVAN-6	72308155	150	12	27 3/4	39	6	FLANGE	570	255	2 Weeks
WVAN-8	72308177	150	16	33 5/8	49	8	FLANGE	945	514	3 Weeks
WVAN-10	72308199	150	20	37 1/2	65	10	FLANGE	1440	770	3 Weeks
WVAN-12	72308221	150	24	42 1/2	76	12	FLANGE	2100	1080	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

WVAN-HV WESS-VENT NON-REMOVABLE — ASME

HIGH VELOCITY MODELS



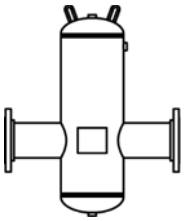
Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	Weight (lbs)	Lead Time
WVAN-2-HV	72309001	150	15 1/4	6	33	2	FLANGE	105	90	3 Weeks
WVAN-2.5-HV	72309034	150	15 3/4	7	33	2 1/2	FLANGE	155	115	3 Weeks
WVAN-3-HV	72309067	150	20 1/4	7 1/2	42	3	FLANGE	225	145	3 Weeks
WVAN-4-HV	72309100	150	20 5/8	9	42	4	FLANGE	405	235	3 Weeks
WVAN-5-HV	72309133	150	27 3/4	10	59	5	FLANGE	630	435	3 Weeks
WVAN-6-HV	72309155	150	27 3/4	12	59	6	FLANGE	910	475	3 Weeks
WVAN-8-HV	72309177	150	33 5/8	16	75	8	FLANGE	1610	765	3 Weeks
WVAN-10-HV	72309199	150	37 1/2	20	92	10	FLANGE	2450	1195	3 Weeks
WVAN-12-HV	72309221	150	42 1/2	24	110	12	FLANGE	3500	1950	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

WVAA WESS-VENT AIR ELIMINATOR — ASME

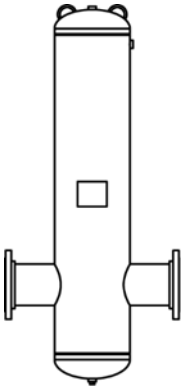


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVAA-2	72304002	150	6	15 1/4	18 1/2	2	FLANGE	69	35	3 Weeks
WVAA-2.5	72304038	150	7	15 3/4	18 1/2	2 1/2	FLANGE	108	61	3 Weeks
WVAA-3	72304074	150	7 1/2	20 1/4	23	3	FLANGE	144	71	3 Weeks
WVAA-4	72304110	150	9	20 5/8	23	4	FLANGE	255	105	3 Weeks
WVAA-5	72304146	150	10	27 3/4	31	5	FLANGE	398	92	3 Weeks
WVAA-6	72304170	150	12	27 3/4	31	6	FLANGE	570	129	3 Weeks
WVAA-8	72304194	150	16	33 5/8	36	8	FLANGE	945	225	3 Weeks
WVAA-10	72304218	150	20	37 1/2	46	10	FLANGE	1440	375	3 Weeks
WVAA-12	72304242	150	24	42 1/2	54	12	FLANGE	2100	564	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

WVAA-HV WESS-VENT AIR ELIMINATOR — ASME

HIGH VELOCITY MODELS



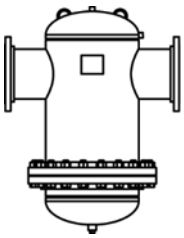
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVAA-2HV	72305002	150	6	15 1/4	23	2	FLANGE	105	40	3 Weeks
WVAA-2.5HV	72305038	150	7	15 3/4	23	2 1/2	FLANGE	155	68	3 Weeks
WVAA-3HV	72305074	150	7 1/2	20 1/4	30	3	FLANGE	225	82	3 Weeks
WVAA-4HV	72305110	150	9	20 5/8	30	4	FLANGE	405	122	3 Weeks
WVAA-5HV	72305146	150	10	27 3/4	41	5	FLANGE	630	128	3 Weeks
WVAA-6HV	72305170	150	12	27 3/4	41	6	FLANGE	910	140	3 Weeks
WVAA-8HV	72305194	150	16	33 5/8	49	8	FLANGE	1610	245	3 Weeks
WVAA-10HV	72305218	150	20	37 1/2	60	10	FLANGE	2450	407	3 Weeks
WVAA-12HV	72305242	150	24	42 1/2	71	12	FLANGE	3500	612	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

AIR & DIRT ELIMINATION EQUIPMENT

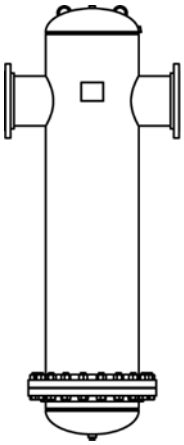
WVAD WESS-VENT DIRT ELIMINATOR — ASME



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVAD-2	72306002	150	9	15 1/4	18 1/2	2	FLANGE	69	64	3 Weeks
WVAD-2.5	72306038	150	10	15 3/4	18 1/2	2 1/2	FLANGE	108	82	3 Weeks
WVAD-3	72306074	150	11	20 1/4	23	3	FLANGE	144	113	3 Weeks
WVAD-4	72306110	150	13 1/2	20 5/8	23	4	FLANGE	255	168	3 Weeks
WVAD-5	72306146	150	16	27 3/4	31	5	FLANGE	398	245	3 Weeks
WVAD-6	72306170	150	19	27 3/4	31	6	FLANGE	570	347	3 Weeks
WVAD-8	72306194	150	23 1/2	33 5/8	36	8	FLANGE	945	451	3 Weeks
WVAD-10	72306218	150	27 1/2	37 1/2	46	10	FLANGE	1440	711	3 Weeks
WVAD-12	72306242	150	32	42 1/2	54	12	FLANGE	2100	1121	3 Weeks

WVAD-HV WESS-VENT DIRT ELIMINATOR — ASME

HIGH VELOCITY MODELS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
WVAD-2HV	72307002	150	9	15 1/4	23	2	FLANGE	105	69	3 Weeks
WVAD-2.5HV	72307038	150	10	15 3/4	23	2 1/2	FLANGE	155	89	3 Weeks
WVAD-3HV	72307074	150	11	20 1/4	30	3	FLANGE	225	125	3 Weeks
WVAD-4HV	72307110	150	13 1/2	20 5/8	30	4	FLANGE	405	185	3 Weeks
WVAD-5HV	72307146	150	16	27 3/4	41	5	FLANGE	630	280	3 Weeks
WVAD-6HV	72307170	150	19	27 3/4	41	6	FLANGE	910	390	3 Weeks
WVAD-8HV	72307194	150	23 1/2	33 5/8	49	8	FLANGE	1610	472	3 Weeks
WVAD-10HV	72307218	150	27 1/2	37 1/2	60	10	FLANGE	2450	744	3 Weeks
WVAD-12HV	72307242	150	32	42 1/2	71	12	FLANGE	3500	1169	3 Weeks

Notes: Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included. Lead time may vary depending on material availability.

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

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

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 DOMESTIC HOT WATER 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)		
(ACCECPTANCE VOLUME/AF)		GAL
SELECT MODEL		

ACCEPTANCE FACTOR

MIN. SYSTEM TEMPERATURE (DEG. F)

MAX. 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)

MIN 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

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

T DOMESTIC HOT WATER EXPANSION TANKS — NON-ASME

FIXED DIAPHRAGM

Products Comply NSF / ANSI Standard 61

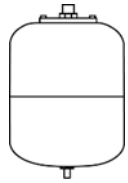
MODELS LISTED
T-5 T-12
T-25 T-30

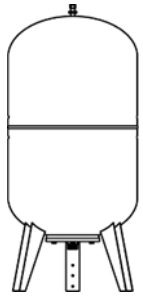
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
T-5	32010005	150	2.1	1.3	7 9/10	7 9/10	10 4/5	3/4	NPT	5	1 Week
T-12	32010012	150	4.8	2.9	10 3/5	10 3/5	13 2/3	3/4	NPT	9	1 Week
T-25	32010025	150	9.3	5.5	15	15	15 2/5	1	NPT	18	1 Week
T-30	32010030	150	13.2	7.8	15	15	21 1/9	1	NPT	23	1 Week
T-42V	32010042	150	21	12.5	17 2/3	17 2/3	23 3/5	1	NPT	33	1 Week
T-60V	32010060	150	40	23.8	19 2/3	19 2/3	35 1/5	1 1/4	NPT	60	1 Week
T-80V	32010080	150	53	31.5	23 3/5	23 3/5	33 8/9	1 1/4	NPT	81	1 Week
T-180V	32010180	150	79	46.9	24 4/5	24 4/5	44 5/7	1 1/4	NPT	105	1 Week
T-260V	32010260	150	106	63	24 4/5	24 4/5	57 1/9	1 1/4	NPT	145	1 Week
T-325V	32010325	150	132	78.4	29 1/2	29 1/2	53 1/9	1 1/4	NPT	190	1 Week

Notes: 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. Lead time may vary depending on material availability.

TX DOMESTIC HOT WATER EXPANSION TANKS — NON-ASME

REMOVABLE BLADDER





Products Comply NSF / ANSI Standard 61

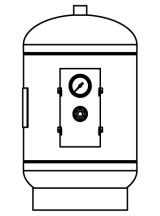
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
5TX	33022050	150	2.1	2.1	7 9/10	7 9/10	13	3/4	NPT	6	1 Week
12TX	33022120	150	4.8	4.8	10 3/5	10 3/5	16 1/5	3/4	NPT	9	1 Week
25TX	33022250	150	10.6	10.6	12 3/5	12 3/5	22 1/2	1	NPT	22	1 Week
30TX	33022300	150	15.8	15.8	15	15	28 2/3	1	NPT	31	1 Week
42TX	33022420	150	21.1	21.1	17 2/3	17 2/3	28 8/9	1	NPT	35	1 Week
60TX	33022600	150	26.4	26.4	17 2/3	17 2/3	31 1/9	1	NPT	45	1 Week
80TX	33022800	150	52.8	52.8	21 3/5	21 3/5	42 1/2	1 1/2	NPT	84	1 Week
180TX	33022900	150	79.2	79.2	24 4/5	24 4/5	46 2/7	1 1/2	NPT	111	1 Week

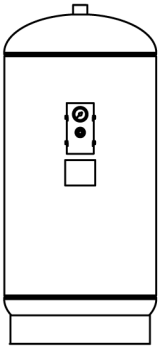
Notes: Materials = Steel, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Red Powder Coat Exterior; Factory Pre-charge = 30 PSIG. Lead time may vary depending on material availability.

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

TTA DOMESTIC HOT WATER EXPANSION TANKS — ASME

FIXED DIAPHRAGM





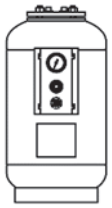
Products Comply NSF / ANSI Standard 61

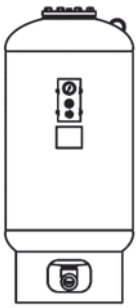
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
TTA-5	18020005	150	3.5	2.3	10	10	14	3/4	NPT	22	1 Week
TTA-12	18020012	150	5	3.3	12	12	14	3/4	NPT	28	1 Week
TTA-20	18020020	150	8	5.3	12	12	20	3/4	NPT	34	1 Week
TTA-30	18020030	150	15	10	16	16	24	1	NPT	50	1 Week
TTA-42	18020042	150	22	14.5	16	16	31	1	NPT	57	1 Week
TTA-60	18020060	150	26	17.5	16	16	34	1	NPT	62	1 Week
TTA-80	18020080	150	35	23.5	16	16	45	1	NPT	80	1 Week
TTA-100	18020100	150	45	30	20	20	39	1	NPT	110	1 Week
TTA-125	18020125	150	60	40	20	20	50	1	NPT	134	1 Week
TTA-160	18020160	150	70	47	24	24	47	1 1/2	NPT	177	1 Week
TTA-180	18020180	150	80	53	24	24	50	1 1/2	NPT	184	1 Week
TTA-210	18020210	150	90	60	24	24	53	1 1/2	NPT	193	1 Week

Notes: Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG. Lead time may vary depending on material availability.

TXA DOMESTIC HOT WATER EXPANSION TANKS — ASME

REMOVABLE BLADDER





Products Comply NSF / ANSI Standard 61

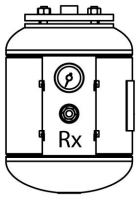
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
TXA-35	20010035	150	10	10	12	12	25	3/4	NPT	40	1 Week
TXA-50	20010050	150	13	13	14	14	25	3/4	NPT	50	1 Week
TXA-85	20010085	150	23	23	16	16	37	1	NPT	90	1 Week
TXA-130	20010130	150	35	35	20	20	37	1	NPT	125	1 Week
TXA-200	20010200	150	53	53	24	24	43	1 1/2	NPT	210	1 Week
TXA-300	20010300	150	79	79	24	24	55	1 1/2	NPT	225	1 Week
TXA-400	20010400	150	106	106	30	30	49	1 1/2	NPT	300	2 Weeks
TXA-500	20010500	150	132	132	30	30	57	2	NPT	335	2 Weeks
TXA-600	20010600	150	158	158	30	30	65	2	NPT	360	2 Weeks
TXA-800L	20010805	150	211	211	32	32	76	2	NPT	475	2 Weeks
TXA-1000	20011000	150	264	264	36	36	87	3	NPT	735	2 Weeks
TXA-1200	20011200	150	317	317	36	36	98	3	NPT	745	2 Weeks
TXA-1400	20011400	150	370	370	36	36	111	3	NPT	900	2 Weeks
TXA-1600	20011600	150	422	422	48	48	84	3	NPT	1210	3 Weeks
TXA-2000	20012000	150	528	528	48	48	96	3	NPT	1305	3 Weeks

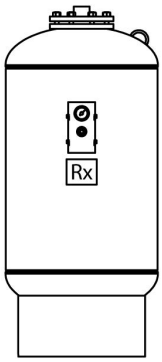
Notes: Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG Lead time may vary depending on material availability.

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

TTA-Rx ANTIMICROBIAL — ASME

FIXED DIAPHRAGM





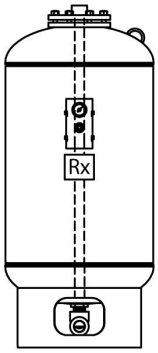
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
TTA-5-Rx	18220006	150	3.5	2.3	10	10	14	3/4	NPT	22	1 Week
TTA-12-Rx	18220013	150	5	3.3	12	12	14	3/4	NPT	28	1 Week
TTA-20-Rx	18220021	150	8	5.3	12	12	20	3/4	NPT	34	1 Week
TTA-30-Rx	18220031	150	15	10	16	16	24	1	NPT	50	1 Week
TTA-42-Rx	18220041	150	22	14.5	16	16	31	1	NPT	57	1 Week
TTA-60-Rx	18220061	150	26	17.5	16	16	34	1	NPT	62	1 Week
TTA-80-Rx	18220081	150	35	23.5	16	16	45	1	NPT	80	1 Week
TTA-100-Rx	18220101	150	45	30	20	20	39	1	NPT	110	1 Week
TTA-125-Rx	18220126	150	60	40	20	20	50	1	NPT	134	1 Week
TTA-160-Rx	18220161	150	70	47	24	24	47	1 1/2	NPT	177	1 Week
TTA-180-Rx	18220181	150	80	53	24	24	50	1 1/2	NPT	184	1 Week
TTA-210-Rx	18220211	150	90	60	24	24	53	1 1/2	NPT	193	1 Week

Products Comply NSF / ANSI Standard 61

Notes: Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG. Lead time may vary depending on material availability: consult factory. Antimicrobial silver plated system connection. Lead times may vary depending on material availability.

TTA-Rx-FF ANTIMICROBIAL FULL FLOW (FLOW-THROUGH) — ASME

FIXED DIAPHRAGM



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
TTA-5-Rx-FF	18120005	150	3.5	2.3	10	10	14	3/4	NPT	22	2 Weeks
TTA-12-Rx-FF	18120012	150	5	3.3	12	12	14	3/4	NPT	28	2 Weeks
TTA-20-Rx-FF	18120020	150	8	5.3	12	12	20	3/4	NPT	34	2 Weeks
TTA-30-Rx-FF	18120030	150	15	10	16	16	24	1	NPT	64	2 Weeks
TTA-42-Rx-FF	18120042	150	22	14.5	16	16	31	1	NPT	88	2 Weeks
TTA-60-Rx-FF	18120060	150	26	17.5	16	16	34	1	NPT	93	2 Weeks
TTA-80-Rx-FF	18120080	150	35	23.5	16	16	45	1	NPT	109	2 Weeks
TTA-100-Rx-FF	18120100	150	45	30	20	20	39	1	NPT	148	2 Weeks
TTA-125-Rx-FF	18120125	150	60	40	20	20	50	1	NPT	175	2 Weeks
TTA-160-Rx-FF	18120160	150	70	47	24	24	47	1 1/2	NPT	259	2 Weeks
TTA-180-Rx-FF	18120180	150	80	53	24	24	50	1 1/2	NPT	268	2 Weeks
TTA-210-Rx-FF	18120210	150	90	60	24	24	53	1 1/2	NPT	283	2 Weeks

Products Comply NSF / ANSI Standard 61

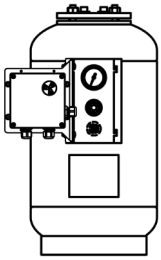
Notes: Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG. Lead time may vary depending on material availability: consult factory. Antimicrobial silver plated flow through chamber. Lead times may vary depending on material availability.

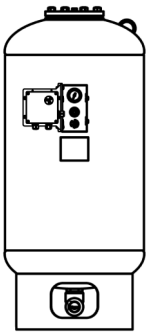
DOMESTIC POTABLE HOT WATER EXPANSION TANKS

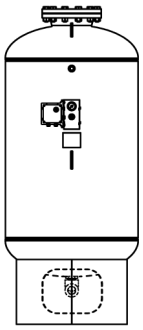
Smart Tank Series: TXA with WessGuard®

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 water-logging 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.

REMOVABLE BLADDER TANK - ASME - 150 PSI







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
TXA-35-WG	60010035	150	10	10	12	12	25	3/4	NPT	40	1 Week
TXA-50-WG	60010050	150	13	13	14	14	25	3/4	NPT	50	1 Week
TXA-85-WG	60010085	150	23	23	16	16	37	1	NPT	90	1 Week
TXA-130-WG	60010130	150	35	35	20	20	37	1	NPT	125	1 Week
TXA-200-WG	60010200	150	53	53	24	24	43	1 1/2	NPT	210	1 Week
TXA-300-WG	60010300	150	79	79	24	24	55	1 1/2	NPT	225	1 Week
TXA-400-WG	60010400	150	106	106	30	30	49	1 1/2	NPT	300	2 Weeks
TXA-500-WG	60010500	150	132	132	30	30	57	2	NPT	335	2 Weeks
TXA-600-WG	60010600	150	158	158	30	30	65	2	NPT	360	2 Weeks
TXA-800L-WG	60010805	150	211	211	32	32	76	2	NPT	475	2 Weeks
TXA-1000-WG	60011000	150	264	264	36	36	87	3	NPT	735	4 Weeks
TXA-1200-WG	60011200	150	317	317	36	36	98	3	NPT	745	4 Weeks
TXA-1400-WG	60011400	150	370	370	36	36	111	3	NPT	900	4 Weeks
TXA-1600-WG	60011600	150	422	422	48	48	84	3	NPT	1210	4 Weeks
TXA-2000-WG	60012000	150	528	528	48	48	96	3	NPT	1305	4 Weeks

Notes: 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. Lead time may vary depending on material availability.

Products Comply NSF / ANSI Standard 61

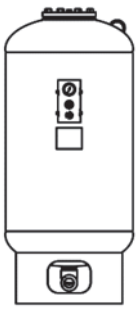
Specify Standard or WessGuard-2® with Phone Texting Alerts

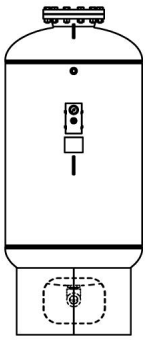
DOMESTIC POTABLE HOT WATER EXPANSION TANKS

TXA-FF Full Flow (Flow-Through) ASME

Wessels type TXA-FF tanks are ASME removable bladder type pre-charged tanks designed as a multi-functional 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 water-logging.

REMOVABLE BLADDER TANK - ASME - 150 PSI





Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
					L	W	H	Size (in)	Type		
TXA-85-FF	20110085	150	23	23	16	16	37	1	NPT	90	1 Week
TXA-130-FF	20110130	150	35	35	20	20	37	1	NPT	132	1 Week
TXA-200-FF	20110200	150	53	53	24	24	43	1 1/2	NPT	220	1 Week
TXA-300-FF	20110300	150	79	79	24	24	55	1 1/2	NPT	236	1 Week
TXA-400-FF	20110400	150	106	106	30	30	49	1 1/2	NPT	315	2 Weeks
TXA-500-FF	20110500	150	132	132	30	30	57	2	NPT	347	2 Weeks
TXA-600-FF	20110600	150	158	158	30	30	65	2	NPT	378	2 Weeks
TXA-800L-FF	20110805	150	211	211	32	32	76	2	NPT	503	2 Weeks
TXA-1000-FF	20111000	150	264	264	36	36	74	3	NPT	710	4 Weeks
TXA-1200-FF	20111200	150	317	317	36	36	86	3	NPT	720	4 Weeks
TXA-1400-FF	20111400	150	370	370	36	36	99	3	NPT	875	4 Weeks
TXA-1600-FF	20111600	150	422	422	48	48	72	3	NPT	1100	4 Weeks
TXA-2000-FF	20112000	150	528	528	48	48	85	3	NPT	1280	4 Weeks

Notes: 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. Lead time may vary depending on material availability.

Products Comply NSF / ANSI Standard 61

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

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.

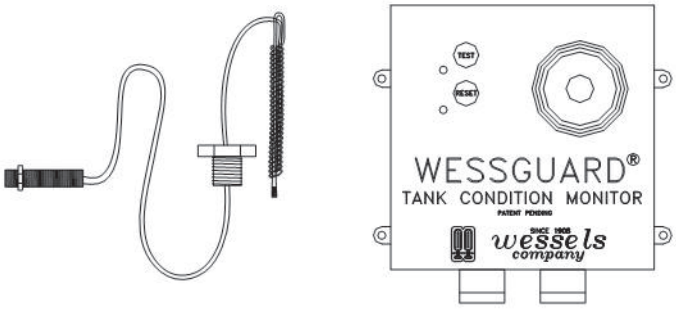
WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - TXA

		Product Dimension		Tank Connection			
Model	Part Number	Length	Height	Size (in)	Type	Weight (lbs)	Lead Time
WG-RETRO	61110001	5 1/4	5 1/4	1	Sight Glass	3	2 Weeks
WG-RETRO2	61110002	5 1/4	1	1/2	NPT	3	2 Weeks

WG-RETRO2 is used on models manufactured in 2018 or later.

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

DOMESTIC POTABLE HOT WATER EXPANSION TANKS

TX REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
5TX	0330005	NA	0550005
12TX	0330012	NA	0550012
25TX	0330025	NA	0550025
30TX	0330030	NA	0550030
42TX	0330042	NA	0550042
60TX	0330060	NA	0550060
80TX	0330080	NA	0550080
180TX	0330180	NA	0550180

TX REPLACEMENT BLADDERS & COVERS

Model	BLADDER Part No.	Bottom Assembly Part No.	Top Assembly Part No.
TXA 35	02200035	0420035	0520035
TXA 50	02200050	0420050	0520050
TXA 85	02200085	0420085	0520085
TXA 130	02200130	0420130	0520130
TXA 200	02200200	0420200	0520200
TXA 300	02200300	0420300	0520300
TXA 400	02200400	0420400	0520400
TXA 500	02200500	0420500	0520500
TXA 600	02200600	0420600	0520600
TXA 800L	02200805	0420800	0520800
TXA 1000	02201000	0421000	0521000
TXA 1200	02201200	0421200	0521200
TXA 1400	02201400	0421400	0521400
TXA 1600	02201600	0421600	0521600
TXA 2000	02202000	0422000	0522000

FILTRATION

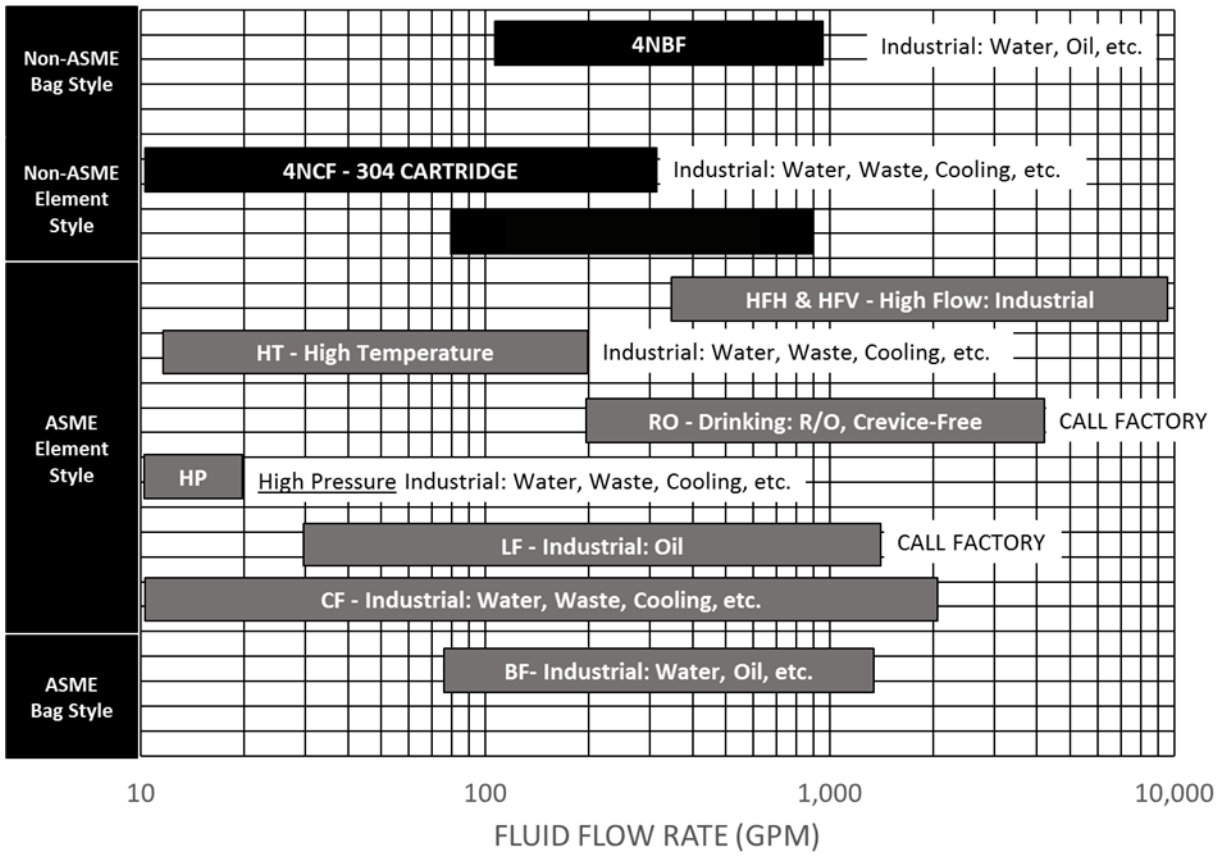
Filtration vessels and filter media enable the physical or mechanical process of separating insoluble particulate matter from a fluid, such as air or liquid, by passing the fluid through a filter medium that will not let the particulates through.

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

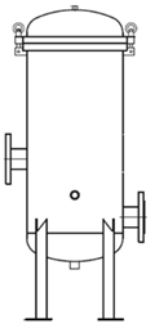
Wessels offers a vast array of filtration vessels designed for use in various markets such as HVAC, Industrial, Oil & Gas, Petrochemical, Water (potable, RO, process), etc. Please use the following sizing chart to assist in selecting the proper vessel series based on your system flow rate.



FILTRATION

4NCF CARTRIDGE FILTER VESSELS — NON-ASME

304 STAINLESS STEEL HOUSING – 150 PSI

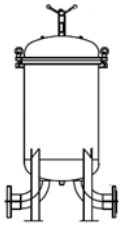


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
4NCF11-1	4NCF11-1	150	4 1/2	4 1/2	16	1	NPT	5	(1)10"	9	2 Weeks
4NCF12-1	4NCF12-1	150	4 1/2	4 1/2	26	1	NPT	10	(1)20"	11	2 Weeks
4NCF51-2	4NCF51-2	150	12	12	29 1/3	2	NPT	25	(5)10"	41	2 Weeks
4NCF52-2	4NCF52-2	150	12	12	39 1/6	2	NPT	50	(5)20"	48	2 Weeks
4NCF53-2	4NCF53-2	150	12	12	49	2	NPT	75	(5)30"	55	2 Weeks
4NCF54-2	4NCF54-2	150	12	12	59 1/4	2	NPT	100	(5)40"	62	2 Weeks
4NCF73-2	4NCF73-2	150	14	14	51 7/9	2	NPT	105	(7)30"	75	2 Weeks
4NCF74-2	4NCF74-2	150	14	14	62	2	NPT	140	(7)40"	84	2 Weeks
4NCF113-3F	4NCF113-3F	150	18 1/4	18 1/4	55 5/7	3	FLANGE	165	(11)30"	115	2 Weeks
4NCF114-3F	4NCF114-3F	150	18 1/4	18 1/4	65 1/6	3	FLANGE	220	(11)40"	123	2 Weeks
4NCF193-4F	4NCF193-4F	150	23 4/5	23 4/5	58 1/2	4	FLANGE	285	(19)30"	161	2 Weeks
4NCF194-4F	4NCF194-4F	150	23 4/5	23 4/5	67 1/2	4	FLANGE	380	(19)40"	175	2 Weeks

Notes: Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Elements NOT included. Lead time may vary depending on material availability.

4NBF BAG FILTER VESSELS — NON-ASME

304 STAINLESS STEEL HOUSING – 150 PSI

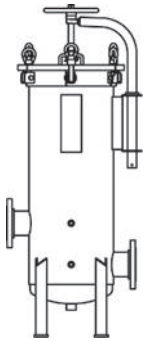


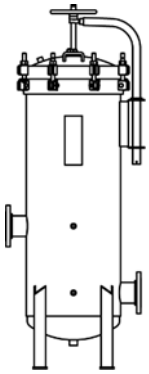
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
4NBF13-1	4NBF13-1	150	7 2/7	7 2/7	20 2/5	1	NPT	15	(1)#3	24	2 Weeks
4NBF14-1	4NBF14-1	150	7 2/7	7 2/7	25 8/9	1	NPT	30	(1)#4	29	2 Weeks
4NBF11-2	4NBF11-2	150	11 1/3	11 1/3	30 1/9	2	NPT	80	(1)#1	64	2 Weeks
4NBF12-2	4NBF12-2	150	11 1/3	11 1/3	43 8/9	2	NPT	160	(1)#2	82	2 Weeks
4NBF12-2F	4NBF12-2F	150	14 1/5	14 1/5	45 2/5	2	FLANGE	160	(1)#2	88	2 Weeks
4NBF12-3F	4NBF12-3F	150	14 1/5	14 1/5	45 2/5	3	FLANGE	160	(1)#2	90	2 Weeks
4NBF22-2F	4NBF42-4F	150	32	32	62	4	FLANGE	640	(4)#2	180	2 Weeks
4NBF32-3F	4NBF62-6F	150	34 4/5	34 4/5	70 5/7	6	FLANGE	640	(6)#2	290	2 Weeks
4NBF42-4F	4NBF42-4F	150	32	32	62	4	FLANGE	640	(4)#2	419	2 Weeks
4NBF62-6F	4NBF62-6F	150	34 4/5	34 4/5	70 5/7	6	FLANGE	960	(6)#2	660	2 Weeks

Notes: 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. Lead time may vary depending on material availability.

CF CARTRIDGE FILTER VESSELS — ASME

CARBON STEEL – 150 PSI



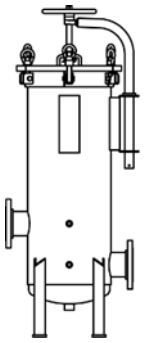


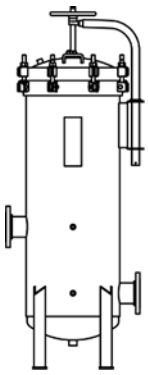
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
CF3-1-2F	CF3-1-2F	150	12 2/3	12 2/3	26 2/3	2	FLANGE	15	(3)10	125	6 Weeks
CF6-1-2F	CF6-1-2F	150	14 7/8	14 7/8	27	2	FLANGE	30	(6)10	180	6 Weeks
CF6-2-2F	CF6-2-2F	150	14 7/8	14 7/8	37	2	FLANGE	60	(6)20	185	6 Weeks
CF6-3-2F	CF6-3-2F	150	14 7/8	14 7/8	47	2	FLANGE	90	(6)30	200	6 Weeks
CF6-4-2F	CF6-4-2F	150	14 7/8	14 7/8	58 1/2	2	FLANGE	120	(6)40	220	6 Weeks
CF6-4-3F	CF6-4-3F	150	14 7/8	14 7/8	58 1/2	3	FLANGE	120	(6)40	220	6 Weeks
CF12-3-3F	CF12-3-3F	150	20 1/2	20 1/2	53 3/4	3	FLANGE	180	(12)30	310	6 Weeks
CF12-3-4F	CF12-3-4F	150	20 1/2	20 1/2	53 3/4	4	FLANGE	180	(12)30	315	6 Weeks
CF12-4-4F	CF12-4-4F	150	20 1/2	20 1/2	60 1/3	4	FLANGE	240	(12)40	330	6 Weeks
CF19-3-4F	CF19-3-4F	150	23 1/2	23 1/2	50 1/5	4	FLANGE	285	(19)30	420	6 Weeks
CF19-4-4F	CF19-4-4F	150	23 1/2	23 1/2	60 1/3	4	FLANGE	380	(19)40	440	6 Weeks
CF25-3-4F	CF25-3-4F	150	26	26	55 7/8	4	FLANGE	375	(25)30	515	6 Weeks
CF25-4-6F	CF25-4-6F	150	26	26	69 3/4	6	FLANGE	500	(25)40	540	6 Weeks
CF35-3-4F	CF35-3-4F	150	29 1/4	29 1/4	58 1/5	4	FLANGE	525	(35)30	640	6 Weeks
CF35-3-6F	CF35-3-6F	150	29 1/4	29 1/4	58 1/5	6	FLANGE	525	(35)30	645	6 Weeks
CF35-4-6F	CF35-4-6F	150	29 1/4	29 1/4	68 1/4	6	FLANGE	700	(35)40	695	6 Weeks
CF40-3-6F	CF40-3-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	600	(40)30	810	6 Weeks
CF40-4-6F	CF40-4-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	800	(40)30	820	6 Weeks
CF52-3-4F	CF52-3-4F	150	33 3/8	33 3/8	63 2/3	4	FLANGE	780	(52)30	855	6 Weeks
CF52-3-6F	CF52-3-6F	150	33 3/8	33 3/8	63 2/3	6	FLANGE	780	(52)30	865	6 Weeks
CF52-4-8F	CF52-4-8F	150	33 3/8	33 3/8	73 2/3	6	FLANGE	1040	(52)40	900	6 Weeks
CF85-3-8F	CF85-3-8F	150	39 3/4	39 3/4	67 1/4	8	FLANGE	1275	(85)30	1170	6 Weeks
CF85-4-8F	CF85-4-8F	150	39 3/4	39 3/4	73 5/8	8	FLANGE	1700	(85)40	1200	6 Weeks
CF102-3-8F	CF102-3-8F	150	42 1/4	42 1/4	68 5/8	8	FLANGE	1530	102(30)	1450	8 Weeks
CF102-4-8F	CF102-4-8F	150	42 1/4	42 1/4	80	8	FLANGE	2040	102(40)	1600	8 Weeks

Notes: Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 500°F; Finish = Primer Painted Exterior; Elements NOT included; Lift arm provided on CF12 and larger; Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

4CF CARTRIDGE FILTER VESSELS — ASME

304 STAINLESS STEEL HOUSING – 150 PSI



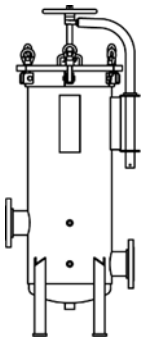


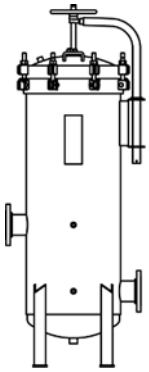
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
4CF3-1-2	4CF3-1-2	150	12 2/3	12 2/3	26 2/3	2	NPT	15	(3)10	125	6 Weeks
4CF6-1-2F	4CF6-1-2F	150	14 7/8	14 7/8	27	2	FLANGE	30	(6)10	180	6 Weeks
4CF6-2-2F	4CF6-2-2F	150	14 7/8	14 7/8	37	2	FLANGE	60	(6)20	185	6 Weeks
4CF6-3-2F	4CF6-3-2F	150	14 7/8	14 7/8	47	2	FLANGE	90	(6)30	200	6 Weeks
4CF6-4-3F	4CF6-4-3F	150	14 7/8	14 7/8	58 1/2	3	FLANGE	120	(6)40	220	6 Weeks
4CF12-3-3F	4CF12-3-3F	150	20 1/2	20 1/2	53 3/4	3	FLANGE	180	(12)30	310	6 Weeks
4CF12-3-4F	4CF12-3-4F	150	20 1/2	20 1/2	53 3/4	4	FLANGE	180	(12)30	315	6 Weeks
4CF12-4-4F	4CF12-4-4F	150	20 1/2	20 1/2	60 1/3	4	FLANGE	240	(12)40	330	6 Weeks
4CF19-3-4F	4CF19-3-4F	150	23 1/2	23 1/2	50 1/5	4	FLANGE	285	(19)30	420	6 Weeks
4CF19-4-4F	4CF19-4-4F	150	23 1/2	23 1/2	60 1/3	4	FLANGE	380	(19)40	440	6 Weeks
4CF25-3-4F	4CF25-3-4F	150	26	26	55 7/8	4	FLANGE	375	(25)30	515	6 Weeks
4CF25-4-6F	4CF25-4-6F	150	26	26	69 3/4	6	FLANGE	500	(25)40	540	6 Weeks
4CF35-3-6F	4CF35-3-6F	150	29 1/4	29 1/4	58 1/5	6	FLANGE	525	(35)30	645	6 Weeks
4CF35-4-6F	4CF35-4-6F	150	29 1/4	29 1/4	68 1/4	6	FLANGE	700	(35)40	695	6 Weeks
4CF40-3-6F	4CF40-3-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	600	(40)30	810	6 Weeks
4CF40-4-6F	4CF40-4-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	800	(40)30	820	6 Weeks
4CF52-3-6F	4CF52-3-6F	150	33 3/8	33 3/8	63 2/3	6	FLANGE	780	(52)30	865	6 Weeks
4CF52-4-8F	4CF52-4-8F	150	33 3/8	33 3/8	73 2/3	8	FLANGE	1040	(52)40	900	6 Weeks
4CF85-3-8F	4CF85-3-8F	150	39 3/4	39 3/4	67 1/4	8	FLANGE	1275	(85)30	1170	6 Weeks
4CF85-4-8F	4CF85-4-8F	150	39 3/4	39 3/4	73 5/8	8	FLANGE	1700	(85)40	1200	6 Weeks
4CF102-3-8F	4CF102-3-8F	150	42 1/4	42 1/4	68 5/8	8	FLANGE	1530	102(30)	1450	6 Weeks
4CF102-4-8F	4CF102-4-8F	150	42 1/4	42 1/4	80	8	FLANGE	2040	102(40)	1600	6 Weeks

Notes: Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger; Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

6CF CARTRIDGE FILTER VESSELS — ASME

316L STAINLESS STEEL HOUSING – 150 PSI





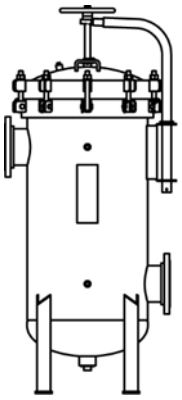
Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
6CF3-1-2F	6CF3-1-2F	150	12 2/3	12 2/3	26 2/3	2	FLANGE	15	(3)10	125	6 Weeks
6CF6-1-2F	6CF6-1-2F	150	14 7/8	14 7/8	27	2	FLANGE	30	(6)10	180	4 Weeks
6CF6-2-2F	6CF6-2-2F	150	14 7/8	14 7/8	37	2	FLANGE	60	(6)20	185	4 Weeks
6CF6-3-2F	6CF6-3-2F	150	14 7/8	14 7/8	47	2	FLANGE	90	(6)30	200	4 Weeks
6CF6-4-3F	6CF6-4-3F	150	14 7/8	14 7/8	58 1/2	3	FLANGE	120	(6)40	220	4 Weeks
6CF12-3-3F	6CF12-3-3F	150	20 1/2	20 1/2	53 3/4	3	FLANGE	180	(12)30	310	4 Weeks
6CF12-3-4F	6CF12-3-4F	150	20 1/2	20 1/2	53 3/4	4	FLANGE	180	(12)30	315	4 Weeks
6CF12-4-4F	6CF12-4-4F	150	20 1/2	20 1/2	60 1/3	4	FLANGE	240	(12)40	330	4 Weeks
6CF19-3-4F	6CF19-3-4F	150	23 1/2	23 1/2	50 1/5	4	FLANGE	285	(19)30	420	4 Weeks
6CF19-4-4F	6CF19-4-4F	150	23 1/2	23 1/2	60 1/3	4	FLANGE	380	(19)40	440	4 Weeks
6CF25-3-4F	6CF25-3-4F	150	26	26	55 7/8	4	FLANGE	375	(25)30	515	6 Weeks
6CF25-4-6F	6CF25-4-6F	150	26	26	69 3/4	6	FLANGE	500	(25)40	540	6 Weeks
6CF35-3-6F	6CF35-3-6F	150	29 1/4	29 1/4	58 1/5	6	FLANGE	525	(35)30	645	6 Weeks
6CF35-4-6F	6CF35-4-6F	150	29 1/4	29 1/4	68 1/4	6	FLANGE	700	(35)40	695	6 Weeks
6CF40-3-6F	6CF40-3-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	600	(40)30	810	6 Weeks
6CF40-4-6F	6CF40-4-6F	150	30 3/4	30 3/4	60 1/4	6	FLANGE	800	(40)30	820	6 Weeks
6CF52-3-6F	6CF52-3-6F	150	33 3/8	33 3/8	63 2/3	6	FLANGE	780	(52)30	865	6 Weeks
6CF52-4-8F	6CF52-4-8F	150	33 3/8	33 3/8	73 2/3	8	FLANGE	1040	(52)40	900	4 Weeks
6CF85-3-8F	6CF85-3-8F	150	39 3/4	39 3/4	67 1/4	8	FLANGE	1275	(85)30	1170	6 Weeks
6CF85-4-8F	6CF85-4-8F	150	39 3/4	39 3/4	73 5/8	8	FLANGE	1700	(85)40	1200	6 Weeks
6CF102-3-8F	6CF102-3-8F	150	42 1/4	42 1/4	68 5/8	8	FLANGE	1530	102(30)	1450	4 Weeks
6CF102-4-8F	6CF102-4-8F	150	42 1/4	42 1/4	80	8	FLANGE	2040	102(40)	1600	4 Weeks

Notes: Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 400°F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger; Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

FILTRATION

BF BAG FILTER VESSELS — ASME

CARBON STEEL – 150 PSI

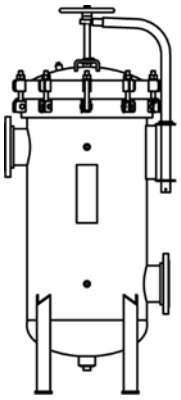


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
BF11-2	BF11-2	150	14 3/4	14 3/4	34 7/8	2	NPT	80	(1)#1	180	6 Weeks
BF12-2	BF12-2	150	14 3/4	14 3/4	47 7/8	2	NPT	160	(1)#2	200	6 Weeks
BF11-2F	BF11-2F	150	14 3/4	14 3/4	34 7/8	2	FLANGE	80	(1)#1	180	6 Weeks
BF12-2F	BF12-2F	150	14 3/4	14 3/4	47 7/8	2	FLANGE	160	(1)#2	200	6 Weeks
BF12-3F	BF12-3F	150	14 3/4	14 3/4	48 4/5	3	FLANGE	160	(1)#2	200	6 Weeks
BF31-3FK1	BF31-3FK1	150	17	17	54	3	FLANGE	240	(3)#1	600	6 Weeks
BF32-4FK1	BF32-4FK1	150	17	17	67	4	FLANGE	480	(3)#2	650	6 Weeks
BF41-4FK1	BF41-4FK1	150	17	17	54 1/2	4	FLANGE	320	(4)#1	670	6 Weeks
BF42-4FK1	BF42-4FK1	150	17	17	67 1/2	4	FLANGE	640	(4)#2	740	6 Weeks
BF42-6FK1	BF42-6FK1	150	18	18	71 1/5	6	FLANGE	640	(4)#2	740	6 Weeks
BF52-6FK1	BF52-6FK1	150	20	20	71 1/2	6	FLANGE	800	(5)#2	700	6 Weeks
BF62-8FK1	BF62-8FK1	150	22	22	75	8	FLANGE	960	(6)#2	1105	6 Weeks
BF72-6FK1	BF72-6FK1	150	20	20	70 3/4	6	FLANGE	1120	(7)#2	1070	6 Weeks
BF72-8FK1	BF72-8FK1	150	22	22	75	8	FLANGE	1120	(7)#2	1105	6 Weeks
BF82-8FK1	BF82-8FK1	150	23 1/4	23 1/4	75 5/9	8	FLANGE	1280	(8)#2	1180	6 Weeks
BF92-8FK1	BF92-8FK1	150	24	24	77 3/4	8	FLANGE	1440	(9)#2	1290	6 Weeks

Notes: Materials = Carbon Steel; 304 & 316L SS Also Available; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 500°F; Finish = Primer Exterior; Bag Filters NOT included; Lift arm provided on BF31 and larger; Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

4BF BAG FILTER VESSELS — ASME

304 STAINLESS STEEL HOUSING – 150 PSI



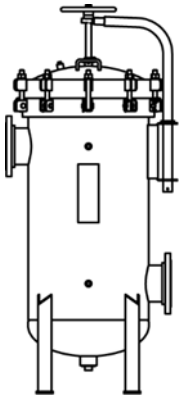
Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
4BF11-2F	4BF11-2F	150	14 3/4	14 3/4	34 7/8	2	FLANGE	80	(1)#1	180	6 Weeks
4BF12-3F	4BF12-3F	150	14 3/4	14 3/4	48 4/5	2	FLANGE	160	(1)#2	200	6 Weeks
4BF31-3FK1	4BF31-3FK1	150	17	17	54	3	FLANGE	240	(3)#1	600	6 Weeks
4BF32-4FK1	4BF32-4FK1	150	17	17	67	4	FLANGE	480	(3)#2	650	6 Weeks
4BF41-4FK1	4BF41-4FK1	150	17	17	54 1/2	4	FLANGE	320	(4)#1	670	6 Weeks
4BF42-6FK1	4BF42-6FK1	150	17	17	67 1/2	4	FLANGE	640	(4)#2	740	6 Weeks
4BF52-6FK1	4BF52-6FK1	150	20	20	71 1/2	6	FLANGE	800	(5)#2	700	6 Weeks
4BF62-8FK1	4BF62-8FK1	150	22	22	75	8	FLANGE	960	(6)#2	1105	6 Weeks
4BF72-8FK1	4BF72-8FK1	150	22	22	75	8	FLANGE	1120	(7)#2	1105	6 Weeks
4BF82-8FK1	4BF82-8FK1	150	23 1/4	23 1/4	75 5/9	8	FLANGE	1280	(8)#2	1180	6 Weeks
4BF92-8FK1	4BF92-8FK1	150	24	24	77 3/4	8	FLANGE	1440	(9)#2	1290	6 Weeks

Notes: Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Bag Filters NOT included Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

FILTRATION

6BF BAG FILTER VESSELS — ASME

316L STAINLESS STEEL HOUSING – 150 PSI

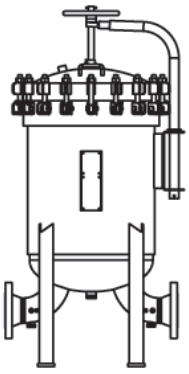


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
6BF11-2F	6BF11-2F	150	14 3/4	14 3/4	34 7/8	2	FLANGE	80	(1)#1	180	6 Weeks
6BF12-3F	6BF12-3F	150	14 3/4	14 3/4	48 4/5	2	FLANGE	160	(1)#2	200	6 Weeks
6BF31-3FK1	6BF31-3FK1	150	17	17	54	3	FLANGE	240	(3)#1	600	6 Weeks
6BF32-4FK1	6BF32-4FK1	150	17	17	67	4	FLANGE	480	(3)#2	650	6 Weeks
6BF41-4FK1	6BF41-4FK1	150	17	17	54 1/2	4	FLANGE	320	(4)#1	670	6 Weeks
6BF42-6FK1	6BF42-6FK1	150	17	17	67 1/2	4	FLANGE	640	(4)#2	740	6 Weeks
6BF52-6FK1	6BF52-6FK1	150	20	20	71 1/2	6	FLANGE	800	(5)#2	700	6 Weeks
6BF62-8FK1	6BF62-8FK1	150	22	22	75	8	FLANGE	960	(6)#2	1105	6 Weeks
6BF72-8FK1	6BF72-8FK1	150	22	22	75	8	FLANGE	1120	(7)#2	1105	6 Weeks
6BF82-8FK1	6BF82-8FK1	150	23 1/4	23 1/4	75 5/9	8	FLANGE	1280	(8)#2	1180	6 Weeks
6BF92-8FK1	6BF92-8FK1	150	24	24	77 3/4	8	FLANGE	1440	(9)#2	1290	6 Weeks

Notes: Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Higeher Pressures Available; Maximum Temperature = 400°F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 6BF31 and larger; Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

GB INLINE BAG FILTER VESSELS — ASME

CARBON STEEL – 150 PSI

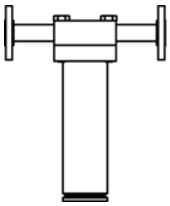


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
GB22-4FBBK1	GB22-4FBBK1	150	27 1/3	27 1/3	57 3/4	4	FLANGE	400	(2)#2	450	8 Weeks
GB32-4FBBK1	GB32-4FBBK1	150	27 1/2	27 1/2	60 5/9	4	FLANGE	600	(3)#2	475	8 Weeks
GB42-6FBBK1	GB42-6FBBK1	150	35	35	65	6	FLANGE	800	(4)#2	570	8 Weeks
GB62-6FBBK1	GB62-6FBBK1	150	40	40	65 1/5	6	FLANGE	1200	(6)#2	600	8 Weeks
GB72-8FBBK1	GB72-8FBBK1	150	46	46	70 7/8	8	FLANGE	1400	(7)#2	760	8 Weeks
GB82-8FBBK1	GB82-8FBBK1	150	46	46	72	8	FLANGE	1600	(8)#2	850	8 Weeks
GB102-8FBBK1	GB102-8FBBK1	150	48	48	72 5/8	8	FLANGE	2000	(10)#2	1000	8 Weeks
GB122-10FBBK1	GB122-10FBBK1	150	56	56	79 1/4	10	FLANGE	2400	(12)#2	1200	8 Weeks
GB162-10FBBK1	GB162-10FBBK1	150	60	60	79 5/8	10	FLANGE	3200	(16)#2	1650	8 Weeks
GB172-12FBBK1	GB172-12FBBK1	150	67	67	85 3/8	12	FLANGE	3400	(17)#2	2200	8 Weeks
GB232-12FBBK1	GB232-12FBBK1	150	75	75	86 4/9	12	FLANGE	4600	(23)#2	2600	8 Weeks
GB302-14FBBK1	GB302-14FBBK1	150	85	85	95 3/8	14	FLANGE	6000	(30)#2	3400	8 Weeks

Notes: Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Higher Pressures Available; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Bag Filters NOT included Other Connection Types Available; Non-Code Also Available. Lead time may vary depending on material availability.

HP HIGH PRESSURE CARTRIDGE FILTER VESSELS — ASME

CARBON STEEL HOUSING

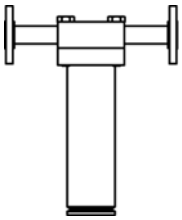


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
HP-11-1	HP-11-1	150	4 3/5	5	14 1/2	1	NPT	5	(1)10	37	4 Weeks
HP-11-1-150	HP-11-1-150	150	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	45	4 Weeks
HP-11-1-300	HP-11-1-300	300	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	47	4 Weeks
HP-11-1-600	HP-11-1-600	600	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	47	4 Weeks
HP-12-1	HP-12-1	150	4 3/5	5	24 1/2	1	NPT	10	(1)20	46	4 Weeks
HP-12-1-150	HP-12-1-150	150	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	54	4 Weeks
HP-12-1-300	HP-12-1-300	300	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	56	4 Weeks
HP-12-1-600	HP-12-1-600	600	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	56	4 Weeks
HP-13-1	HP-13-1	150	4 3/5	5	34 1/2	1	NPT	15	(1)30	55	4 Weeks
HP-13-1-150	HP-13-1-150	150	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	63	4 Weeks
HP-13-1-300	HP-13-1-300	300	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	65	4 Weeks
HP-13-1-600	HP-13-1-600	600	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	65	4 Weeks

Notes: Materials = Carbon Steel; Maximum Pressure based on rating of flanges; Maximum Temperature = 300°F; Finish = Primer Exterior; Filters NOT included. Lead time may vary depending on material availability.

6HP HIGH PRESSURE CARTRIDGE FILTER VESSELS — ASME

316L STAINLESS STEEL HOUSING

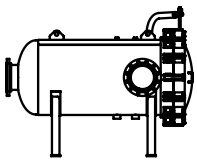


Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	System Connection Size (in)	Type	Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
6HP-11-1-150F	6HP-11-1-150F	150	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	45	4 Weeks
6HP-11-1-300F	6HP-11-1-300F	300	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	47	4 Weeks
6HP-11-1-600F	6HP-11-1-600F	600	12 3/5	5	14 1/2	1	FLANGE	5	(1)10	47	4 Weeks
6HP-11-1	6HP-11-1	150	4 3/5	5	14 1/2	1	NPT	5	(1)10	37	4 Weeks
6HP-12-1-150	6HP-12-1-150	150	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	54	4 Weeks
6HP-12-1-300	6HP-12-1-300	300	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	56	4 Weeks
6HP-12-1-600	6HP-12-1-600	600	12 3/5	5	24 1/2	1	FLANGE	10	(1)20	56	4 Weeks
6HP-12-1	6HP-12-1	150	4 3/5	5	24 1/2	1	NPT	10	(1)20	46	4 Weeks
6HP-13-1-150	6HP-13-1-150	150	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	63	4 Weeks
6HP-13-1-300	6HP-13-1-300	300	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	65	4 Weeks
6HP-13-1-600	6HP-13-1-600	600	12 3/5	5	34 1/2	1	FLANGE	15	(1)30	65	4 Weeks
6HP-13-1	6HP-13-1	150	4 3/5	5	34 1/2	1	NPT	15	(1)30	55	4 Weeks

Notes: Materials = 316L Stainless Steel; Maximum Pressure based on rating of flanges; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Filters NOT included. Lead time may vary depending on material availability.

HFH HIGH PRESSURE CARTRIDGE FILTER VESSELS — ASME

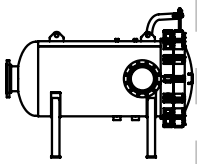
CARBON STEEL – 150 PSI



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
HFH14-3F	HFH14-3F	150	60 1/5	14	43	3	FLANGE	350	(1)40	250	8 Weeks
HFH16-4F	HFH16-4F	150	81 2/7	14	43	4	FLANGE	500	(1)60	325	8 Weeks
HFH34-6F	HFH34-6F	150	69 4/5	22	58 2/5	6	FLANGE	1050	(3)40	694	8 Weeks
HFH36-8F	HFH36-8F	150	91 4/5	22	58 2/5	8	FLANGE	1500	(3)60	756	8 Weeks
HFH54-8F	HFH54-8F	150	77	26	59	8	FLANGE	1750	(5)40	935	8 Weeks
HFH56-10F	HFH56-10F	150	99	26	59	10	FLANGE	2500	(5)60	1070	8 Weeks
HFH74-10F	HFH74-10F	150	79 5/7	28	60	10	FLANGE	2450	(7)40	1106	8 Weeks
HFH76-10F	HFH76-10F	150	99 5/7	28	60	10	FLANGE	3500	(7)60	1181	8 Weeks
HFH84-10F	HFH84-10F	150	79 5/7	30	61	10	FLANGE	2800	(8)40	1248	8 Weeks
HFH86-12F	HFH86-12F	150	101 8/9	30	61	12	FLANGE	4000	(8)60	1389	8 Weeks
HFH124-12F	HFH124-12F	150	88 2/5	36	64	12	FLANGE	4200	(12)40	1672	8 Weeks
HFH126-14F	HFH126-14F	150	109 5/7	36	64	14	FLANGE	6000	(12)60	1834	8 Weeks
HFH154-14F	HFH154-14F	150	90 4/5	38	65	14	FLANGE	5250	(15)40	1938	8 Weeks
HFH156-16F	HFH156-16F	150	112 8/9	38	65	16	FLANGE	7500	(15)60	2113	8 Weeks
HFH194-16F	HFH194-16F	150	94 1/2	42	67 1/2	16	FLANGE	6650	(19)40	2593	8 Weeks
HFH196-18F	HFH196-18F	150	116 1/2	42	67 1/2	18	FLANGE	9500	(19)60	2828	8 Weeks

4HFH HIGH FLOW CARTRIDGE VESSELS — ASME

304 STAINLESS STEEL HOUSING – 150 PSI



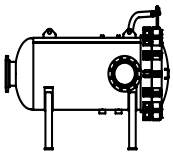
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
4HFH14-3F	4HFH14-3F	150	60 1/5	14	43	3	FLANGE	350	(1)40	250	2 Weeks
4HFH16-4F	4HFH16-4F	150	81 2/7	14	43	4	FLANGE	500	(1)60	325	2 Weeks
4HFH34-6F	4HFH34-6F	150	69 4/5	22	58 2/5	6	FLANGE	1050	(3)40	694	2 Weeks
4HFH36-8F	4HFH36-8F	150	91 4/5	22	58 2/5	8	FLANGE	1500	(3)60	756	2 Weeks
4HFH54-8F	4HFH54-8F	150	77	26	59	8	FLANGE	1750	(5)40	935	2 Weeks
4HFH56-10F	4HFH56-10F	150	99	26	59	10	FLANGE	2500	(5)60	1070	2 Weeks
4HFH74-10F	4HFH74-10F	150	79 5/7	28	60	10	FLANGE	2450	(7)40	1106	2 Weeks
4HFH76-10F	4HFH76-10F	150	99 5/7	28	60	10	FLANGE	3500	(7)60	1181	2 Weeks
4HFH84-10F	4HFH84-10F	150	79 5/7	30	61	10	FLANGE	2800	(8)40	1248	2 Weeks
4HFH86-12F	4HFH86-12F	150	101 8/9	30	61	12	FLANGE	4000	(8)60	1389	2 Weeks
4HFH124-12F	4HFH124-12F	150	88 2/5	36	64	12	FLANGE	4200	(12)40	1672	2 Weeks
4HFH126-14F	4HFH126-14F	150	109 5/7	36	64	14	FLANGE	6000	(12)60	1834	2 Weeks
4HFH154-14F	4HFH154-14F	150	90 4/5	38	65	14	FLANGE	5250	(15)40	1938	2 Weeks
4HFH156-16F	4HFH156-16F	150	112 8/9	38	65	16	FLANGE	7500	(15)60	2113	2 Weeks
4HFH194-16F	4HFH194-16F	150	94 1/2	42	67 1/2	16	FLANGE	6650	(19)40	2593	2 Weeks
4HFH196-18F	4HFH196-18F	150	116 1/2	42	67 1/2	18	FLANGE	9500	(19)60	2828	2 Weeks

Notes: Materials = HFH: Carbon Steel; 4HFH: 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Exterior; Filters NOT included; Lead time may vary depending on material availability

FILTRATION

6HFH HIGH FLOW CARTRIDGE VESSELS — ASME

316L STAINLESS STEEL HOUSING – 150 PSI

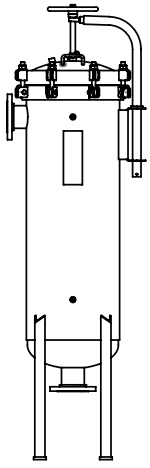


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
6HFH14-3F	6HFH14-3F	150	60 1/5	14	43	3	FLANGE	350	(1)40	250	8 Weeks
6HFH16-4F	6HFH16-4F	150	81 2/7	14	43	4	FLANGE	500	(1)60	325	8 Weeks
6HFH34-6F	6HFH34-6F	150	69 4/5	22	58 2/5	6	FLANGE	1050	(3)40	694	8 Weeks
6HFH36-8F	6HFH36-8F	150	91 4/5	22	58 2/5	8	FLANGE	1500	(3)60	756	8 Weeks
6HFH54-8F	6HFH54-8F	150	77	26	59	8	FLANGE	1750	(5)40	935	8 Weeks
6HFH56-10F	6HFH56-10F	150	99	26	59	10	FLANGE	2500	(5)60	1070	8 Weeks
6HFH74-10F	6HFH74-10F	150	79 5/7	28	60	10	FLANGE	2450	(7)40	1106	8 Weeks
6HFH76-10F	6HFH76-10F	150	99 5/7	28	60	10	FLANGE	3500	(7)60	1181	8 Weeks
6HFH84-10F	6HFH84-10F	150	79 5/7	30	61	10	FLANGE	2800	(8)40	1248	8 Weeks
6HFH86-12F	6HFH86-12F	150	101 8/9	30	61	12	FLANGE	4000	(8)60	1389	8 Weeks
6HFH124-12F	6HFH124-12F	150	88 2/5	36	64	12	FLANGE	4200	(12)40	1672	8 Weeks
6HFH126-14F	6HFH126-14F	150	109 5/7	36	64	14	FLANGE	6000	(12)60	1834	8 Weeks
6HFH154-14F	6HFH154-14F	150	90 4/5	38	65	14	FLANGE	5250	(15)40	1938	8 Weeks
6HFH156-16F	6HFH156-16F	150	112 8/9	38	65	16	FLANGE	7500	(15)60	2113	8 Weeks
6HFH194-16F	6HFH194-16F	150	94 1/2	42	67 1/2	16	FLANGE	6650	(19)40	2593	8 Weeks
6HFH196-18F	6HFH196-18F	150	116 1/2	42	67 1/2	18	FLANGE	9500	(19)60	2828	8 Weeks

Notes: Materials = 316L Stainless Steel; Maximum Pressure 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Exterior; Filters NOT included. Lead time may vary depending on material availability.

HFV HIGH FLOW CARTRIDGE FILTER VESSELS — ASME

CARBON STEEL - 150 PSI

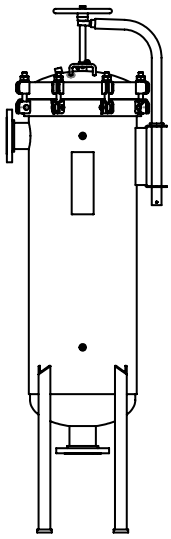


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
HFV14-3F	HFV14-3F	150	65 1/2	14	69 2/5	3	FLANGE	350	(1)40	250	6 Weeks
HFV34-6F	HFV34-6F	150	82	22	94 1/4	6	FLANGE	1500	(3)40	694	6 Weeks
HFV54-8F	HFV54-8F	150	90	26	106 1/4	8	FLANGE	1750	(5)40	935	6 Weeks
HFV74-10F	HFV74-10F	150	98 4/5	28	115 1/4	10	FLANGE	2450	(7)40	1106	6 Weeks
HFV84-10F	HFV84-10F	150	98 4/5	30	115 1/2	10	FLANGE	2800	(8)40	1248	6 Weeks
HFV124-12F	HFV124-12F	150	110 1/4	36	129	12	FLANGE	4200	(12)40	1672	6 Weeks
HFV154-14F	HFV154-14F	150	115 4/5	38	135	14	FLANGE	5250	(15)40	1938	6 Weeks
HFV194-16F	HFV194-16F	150	123 1/2	42	143 3/5	16	FLANGE	6650	(19)40	2593	6 Weeks

Notes: Materials = Carbon Steel; Maximum Pressure 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Exterior; Filters NOT included. Lead time may vary depending on material availability.

FILTRATION

4HFV HIGH FLOW CARTRIDGE VESSELS — ASME

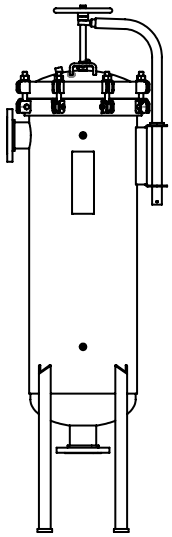


304 STAINLESS STEEL HOUSING – 150 PSI

Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
4HFV14-3F	4HFV14-3F	150	65 1/2	14	69 2/5	3	FLANGE	350	(1)40	250	2 Weeks
4HFV34-6F	4HFV34-6F	150	82	22	94 1/4	6	FLANGE	1050	(3)40	694	2 Weeks
4HFV54-8F	4HFV54-8F	150	90	26	106 1/4	8	FLANGE	1750	(5)40	935	2 Weeks
4HFV74-10F	4HFV74-10F	150	98 4/5	28	115 1/4	10	FLANGE	2450	(7)40	1106	2 Weeks
4HFV84-10F	4HFV84-10F	150	98 4/5	30	115 1/2	10	FLANGE	2800	(8)40	1248	2 Weeks
4HFV124-12F	4HFV124-12F	150	110 1/4	36	129	12	FLANGE	4200	(12)40	1672	2 Weeks
4HFV154-14F	4HFV154-14F	150	115 4/5	38	135	14	FLANGE	5250	(15)40	1938	2 Weeks
4HFV194-16F	4HFV194-16F	150	123 1/2	42	143 3/5	16	FLANGE	6650	(19)40	2593	2 Weeks

Notes: Materials = Carbon Steel; Maximum Pressure 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Exterior; Filters NOT included. Lead time may vary depending on material availability.

6HFV HIGH FLOW CARTRIDGE VESSELS — ASME



316L STAINLESS STEEL HOUSING – 150 PSI

Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	# of Filter Elements	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type				
6HFV14-3F	6HFV14-3F	150	65 1/2	14	69 2/5	3	FLANGE	350	(1)40	250	6 Weeks
6HFV34-6F	6HFV34-6F	150	82	22	94 1/4	6	FLANGE	1050	(3)40	694	6 Weeks
6HFV54-8F	6HFV54-8F	150	90	26	106 1/4	8	FLANGE	1750	(5)40	935	6 Weeks
6HFV74-10F	6HFV74-10F	150	98 4/5	28	115 1/4	10	FLANGE	2450	(7)40	1106	6 Weeks
6HFV84-10F	6HFV84-10F	150	98 4/5	30	115 1/2	10	FLANGE	2800	(8)40	1248	6 Weeks
6HFV124-12F	6HFV124-12F	150	110 1/4	36	129	12	FLANGE	4200	(12)40	1672	6 Weeks
6HFV154-14F	6HFV154-14F	150	115 4/5	38	135	14	FLANGE	5250	(15)40	1938	6 Weeks
6HFV194-16F	6HFV194-16F	150	123 1/2	42	143 3/5	16	FLANGE	6650	(19)40	2593	6 Weeks

Notes: Materials = Carbon Steel; Maximum Pressure 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Exterior; Filters NOT included. Lead time may vary depending on material availability.

FILTER ELEMENTS

BAG FILTERS

Model/ Part Number	Description	"Bag Style (C/G)"	"Bag Size"	"Micron Rating (µ)"	"Material of Construction"	"O.D. (in.)"	"Length (in.)"	Lead Time
9PC1PE1	BAG FILTER, #1, 7.06"OD X 16.5"L, 1M, PP	C	1	1	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE3	BAG FILTER, #1, 7.06"OD X 16.5"L, 3M, PP	C	1	3	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE5	BAG FILTER, #1, 7.06"OD X 16.5"L, 5M, PP	C	1	5	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE10	BAG FILTER, #1, 7.06"OD X 16.5"L, 10M, PP	C	1	10	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE25	BAG FILTER, #1, 7.06"OD X 16.5"L, 25M, PP	C	1	25	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE50	BAG FILTER, #1, 7.06"OD X 16.5"L, 50M, PP	C	1	50	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE75	BAG FILTER, #1, 7.06"OD X 16.5"L, 75M, PP	C	1	75	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE100	BAG FILTER, #1, 7.06"OD X 16.5"L, 100M, PP	C	1	100	Polyester Felt	7.31	16.50	2 Weeks
9PC1PE200	BAG FILTER, #1, 7.06"OD X 16.5"L, 200M, PP	C	1	200	Polyester Felt	7.31	16.50	2 Weeks
9PC1P1	BAG FILTER, #1, 7.06"OD X 16.5"L, 1M, PP	C	1	1	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P3	BAG FILTER, #1, 7.06"OD X 16.5"L, 3M, PP	C	1	3	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P5	BAG FILTER, #1, 7.06"OD X 16.5"L, 5M, PP	C	1	5	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P10	BAG FILTER, #1, 7.06"OD X 16.5"L, 10M, PP	C	1	10	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P25	BAG FILTER, #1, 7.06"OD X 16.5"L, 25M, PP	C	1	25	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P50	BAG FILTER, #1, 7.06"OD X 16.5"L, 50M, PP	C	1	50	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P100	BAG FILTER, #1, 7.06"OD X 16.5"L, 100M, PP	C	1	100	Polypropylene Felt	7.31	16.50	2 Weeks
9PC1P200	BAG FILTER, #1, 7.06"OD X 16.5"L, 200M, PP	C	1	200	Polypropylene Felt	7.31	16.50	2 Weeks
9PC2PE1	BAG FILTER, #2, 7.06"OD X 32"L, 1M, PP	C	2	1	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE3	BAG FILTER, #2, 7.06"OD X 32"L, 3M, PP	C	2	3	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE5	BAG FILTER, #2, 7.06"OD X 32"L, 5M, PP	C	2	5	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE10	BAG FILTER, #2, 7.06"OD X 32"L, 10M, PP	C	2	10	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE25	BAG FILTER, #2, 7.06"OD X 32"L, 25M, PP	C	2	25	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE50	BAG FILTER, #2, 7.06"OD X 32"L, 50M, PP	C	2	50	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE75	BAG FILTER, #2, 7.06"OD X 32"L, 75M, PP	C	2	75	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE100	BAG FILTER, #2, 7.06"OD X 32"L, 100M, PP	C	2	100	Polyester Felt	7.31	32.50	2 Weeks
9PC2PE200	BAG FILTER, #2, 7.06"OD X 32"L, 200M, PP	C	2	200	Polyester Felt	7.31	32.50	2 Weeks
9PC2P1	BAG FILTER, #2, 7.06"OD X 32"L, 1M, PP	C	2	1	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P3	BAG FILTER, #2, 7.06"OD X 32"L, 3M, PP	C	2	3	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P5	BAG FILTER, #2, 7.06"OD X 32"L, 5M, PP	C	2	5	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P10	BAG FILTER, #2, 7.06"OD X 32"L, 10M, PP	C	2	10	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P25	BAG FILTER, #2, 7.06"OD X 32"L, 25M, PP	C	2	25	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P50	BAG FILTER, #2, 7.06"OD X 32"L, 50M, PP	C	2	50	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P100	BAG FILTER, #2, 7.06"OD X 32"L, 100M, PP	C	2	100	Polypropylene Felt	7.31	32.50	2 Weeks
9PC2P200	BAG FILTER, #2, 7.06"OD X 32"L, 200M, PP	C	2	200	Polypropylene Felt	7.31	32.50	2 Weeks
9PG1PE1	BAG FILTER, #1, 7.06"OD X 16.5"L, 1M, PP	G	1	1	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE3	BAG FILTER, #1, 7.06"OD X 16.5"L, 3M, PP	G	1	3	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE5	BAG FILTER, #1, 7.06"OD X 16.5"L, 5M, PP	G	1	5	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE10	BAG FILTER, #1, 7.06"OD X 16.5"L, 10M, PP	G	1	10	Polyester Felt	7.06	16.50	2 Weeks

Notes: Lead time may vary depending on material availability.

FILTER ELEMENTS

BAG FILTERS - CONTINUED

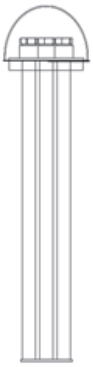
Model/ Part Number	Description	Bag Style (C/G)	Bag Size	Micron Rating (µ)	Material of Construction	O.D. (in.)	Length (in.)	Lead Time
9PG1PE25	BAG FILTER, #1, 7.06"OD X 16.5"L, 25M, PP	G	1	25	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE50	BAG FILTER, #1, 7.06"OD X 16.5"L, 50M, PP	G	1	50	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE75	BAG FILTER, #1, 7.06"OD X 16.5"L, 75M, PP	G	1	75	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE100	BAG FILTER, #1, 7.06"OD X 16.5"L, 100M, PP	G	1	100	Polyester Felt	7.06	16.50	2 Weeks
9PG1PE200	BAG FILTER, #1, 7.06"OD X 16.5"L, 200M, PP	G	1	200	Polyester Felt	7.06	16.50	2 Weeks
9PG1P1	BAG FILTER, #1, 7.06"OD X 16.5"L, 1M, PP	G	1	1	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P3	BAG FILTER, #1, 7.06"OD X 16.5"L, 3M, PP	G	1	3	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P5	BAG FILTER, #1, 7.06"OD X 16.5"L, 5M, PP	G	1	5	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P10	BAG FILTER, #1, 7.06"OD X 16.5"L, 10M, PP	G	1	10	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P25	BAG FILTER, #1, 7.06"OD X 16.5"L, 25M, PP	G	1	25	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P50	BAG FILTER, #1, 7.06"OD X 16.5"L, 50M, PP	G	1	50	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P100	BAG FILTER, #1, 7.06"OD X 16.5"L, 100M, PP	G	1	100	Polypropylene Felt	7.06	16.50	2 Weeks
9PG1P200	BAG FILTER, #1, 7.06"OD X 16.5"L, 200M, PP	G	1	200	Polypropylene Felt	7.06	16.50	2 Weeks
9PG2PE1	BAG FILTER, #2, 7.06"OD X 32"L, 1M, PP	G	2	1	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE3	BAG FILTER, #2, 7.06"OD X 32"L, 3M, PP	G	2	3	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE5	BAG FILTER, #2, 7.06"OD X 32"L, 5M, PP	G	2	5	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE10	BAG FILTER, #2, 7.06"OD X 32"L, 10M, PP	G	2	10	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE25	BAG FILTER, #2, 7.06"OD X 32"L, 25M, PP	G	2	25	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE50	BAG FILTER, #2, 7.06"OD X 32"L, 50M, PP	G	2	50	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE75	BAG FILTER, #2, 7.06"OD X 32"L, 75M, PP	G	2	75	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE100	BAG FILTER, #2, 7.06"OD X 32"L, 100M, PP	G	2	100	Polyester Felt	7.06	32.00	2 Weeks
9PG2PE200	BAG FILTER, #2, 7.06"OD X 32"L, 200M, PP	G	2	200	Polyester Felt	7.06	32.00	2 Weeks
9PG2P1	BAG FILTER, #2, 7.06"OD X 32"L, 1M, PP	G	2	1	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P3	BAG FILTER, #2, 7.06"OD X 32"L, 3M, PP	G	2	3	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P5	BAG FILTER, #2, 7.06"OD X 32"L, 5M, PP	G	2	5	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P10	BAG FILTER, #2, 7.06"OD X 32"L, 10M, PP	G	2	10	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P25	BAG FILTER, #2, 7.06"OD X 32"L, 25M, PP	G	2	25	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P50	BAG FILTER, #2, 7.06"OD X 32"L, 50M, PP	G	2	50	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P100	BAG FILTER, #2, 7.06"OD X 32"L, 100M, PP	G	2	100	Polypropylene Felt	7.06	32.00	2 Weeks
9PG2P200	BAG FILTER, #2, 7.06"OD X 32"L, 200M, PP	G	2	200	Polypropylene Felt	7.06	32.00	2 Weeks

Notes: Lead time may vary depending on material availability.

FILTER ELEMENTS

WMA WESMAG MAGNETIC FILTRATION — ASME

Magnetic Filtration using the WesMag, using one or three, 12 inch long magnets. To be used inside a Wessels bag filter.



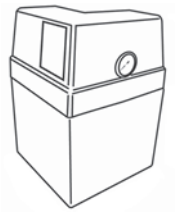
Model	Part Number	Certification	Product Dimensions L	W	H	Flow Cap (GPM)	Number of Elements	Fits Bag Style #	Weight (lbs)	Lead Time
WMA-1-1	99A2577	ASME	1 5/8	1 5/8	17	93	1	1	3.8	3 Weeks
WMA-2-1	99A2560	ASME	1 5/8	1 5/8	27	137	1	2	5.5	3 Weeks
WMA-1-3	99A2857	ASME	7	7	17	275	3	1	12	3 Weeks
WMA-2-3	99A2575	ASME	7	7	27	413	3	2	17	3 Weeks

Notes: Materials = 304; Stainless steel closed housing; Neodymium Rare Earth Magnets. Lead time may vary depending on material availability.

GLYCOL MAKE-UP PACKAGES

GLYMATIC & GMP GLYCOL MAKE-UP PACKAGES

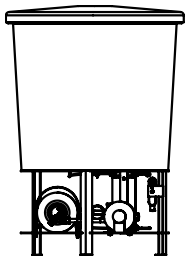
GLYMATIC – SINGLE SYSTEM PACKAGE



Model	Part Number	"Solution Volume (Gal)"	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
G-6	07001006	6	12	12	17 1/2	1/2	NPT	16	1 Week
G-18	07001018	18	12	12	40	1/2	NPT	28	1 Week

Notes: 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. Lead time may vary depending on material availability.

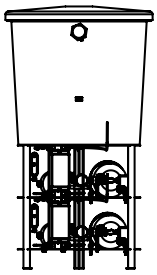
GMP – SINGLE SYSTEM PACKAGE



Model	Part Number	Pump (hp)	Solution Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
				L	W	H	Size (in)	Type		
GMP-13050	07101052	1/3	50	34	34	45	1/2	NPT	134	1 Week
GMP-13100	07101102	1/3	100	34	34	68	1/2	NPT	140	1 Week
GMP-15050	07102052	1/2	50	34	34	45	1/2	NPT	138	1 Week
GMP-15100	07102102	1/2	100	34	34	68	1/2	NPT	140	1 Week

Notes: 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. Lead time may vary depending on material availability.

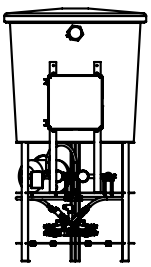
GMPD – DUAL SYSTEMS/ SINGLE PACKAGE



Model	Part Number	Pump (hp)	Solution Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
				L	W	H	Size (in)	Type		
GMPD-23050	07103152	1/3	50	34	34	56	1/2	NPT	214	3 Weeks
GMPD-23100	07103155	1/3	100	34	34	80	1/2	NPT	255	3 Weeks
GMPD-25050	07103160	1/2	50	34	34	56	1/2	NPT	218	3 Weeks
GMPD-25100	07103065	1/2	100	34	34	80	1/2	NPT	259	3 Weeks

Notes: 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. Lead time may vary depending on material availability.

GMPT – ALTERNATING TWIN PUMP PACKAGE



Model	Part Number	Pump (hp)	Solution Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
				L	W	H	Size (in)	Type		
GMPT-33050	07103170	1/3	50	40	34	56	1/2	NPT	236	3 Weeks
GMPT-33100	07103175	1/3	100	40	34	80	1/2	NPT	226	3 Weeks
GMPT-35050	07103180	1/2	50	40	34	56	1/2	NPT	240	3 Weeks
GMPT-35100	07103185	1/2	100	40	34	80	1/2	NPT	230	3 Weeks

Notes: 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. Lead time may vary depending on material availability.

HEAT EXCHANGERS

Heat exchangers are manufactured to efficiently transfer heat between two fluids (gas or liquid) while keeping them separate. In typical HVAC installations, steam or hot water primary loops distribute heat from a central energy source out to secondary loops. Heat exchangers transfer heat from a system's primary and secondary loops and can also serve as a separation device to reduce system costs. Applications include domestic water heating, radiant heating, district heating, pool heating, condensate cooling, air conditioning, snow melting, and more. Wessels offers an online web-sizing tool for plate and frame style heat exchangers. Please visit wesplatesizing.westank.com

SIZING BRAZED PLATE HEAT EXCHANGERS

RADIANT FLOOR HEATING

Duty Btu/hr	Model	Boiler 180°F to 160°F GPM	Boiler 180°F to 160°F ΔPsi	Radiant 100°F to 120°F GPM	Radiant 100°F to 120°F ΔPsi
25,000	WB01A-10	2.6	1.7	2.6	1.2
50,000	WB01A-10	5.2	6.3	5	4.3
75,000	WB01A-20	7.7	3.3	7.6	2.8
100,000	WB01A-20	10.3	5.6	10.1	4.9
125,000	WB01A-20	12.9	8.7	12.6	7.5
150,000	WB01A-30	15.5	6.7	15.2	6.2
175,000	WB01A-30	18	8.9	17.7	8.3
200,000	WB01A-40	20.6	8.6	20.2	8.3
225,000	WB01A-50	23.2	9.4	22.7	9.2
250,000	WB10A-40	25.8	7.9	25.2	7.4
275,000	WB10A-40	28.3	9.5	27.8	8.8
300,000	WB10A-50	30.9	7.6	30.3	7.2
350,000	WB10A-60	36.1	7.6	35.3	7.4
400,000	WB10A-60	51.2	9.8	40.4	9.5
450,000	WB10A-70	46.4	9.9	45.4	9.7
500,000	WB10A-90	51.5	9	50.5	8.9
600,000	WB20A-50	61.8	7.7	60.6	7.3
700,000	WB20A-60	72.1	7.7	70.7	7.4
800,000	WB20A-60	82.4	10	80.8	9.6
900,000	WB20A-80	92.7	8.4	90.9	8.2
1,000,000	WB20A-90	103	9	101	8.8
1,100,000	WB20A-100	113.3	9.6	111.1	9.5
1,200,000	WB20A-120	123.6	9.6	121.2	9.5
1,350,000	WB20A-160	139.1	9.8	136.3	9.8

DOMESTIC HEATING W 180 F - DOUBLE WALL

Duty Btu/hr	Model	Boiler 180°F to 130°F GPM	Boiler 180°F to 130°F ΔPsi	Domestic 50°F to 140°F GPM	Domestic 50°F to 140°F ΔPsi
25,000	WB15DA-10	1	0.3	0.6	0.1
50,000	WB15DA-10	2.1	1	1.1	0.2
75,000	WB15DA-10	3.1	2.1	1.7	0.5
100,000	WB15DA-10	4.1	3.6	2.2	0.8
125,000	WB15DA-10	5.2	5.5	2.8	1.2
150,000	WB15DA-10	6.2	7.7	3.3	1.7
175,000	WB15DA-20	7.2	2.2	3.9	0.6
200,000	WB15DA-20	8.3	2.9	4.4	0.8
225,000	WB15DA-20	9.3	3.6	5	1
250,000	WB15DA-20	10.3	4.5	5.6	1.3
275,000	WB15DA-20	11.4	5.4	6.1	1.5
300,000	WB15DA-20	12.4	6.3	6.7	1.8
350,000	WB15DA-20	14.4	8.5	7.8	2.4
400,000	WB15DA-40	16.5	5	8.9	1.5
450,000	WB15DA-40	18.6	5.2	10	1.6
500,000	WB15DA-40	20.6	5.7	11.1	2
600,000	WB15DA-40	24.8	6.6	13.3	1.7
700,000	WB15DA-40	28.9	7.9	15.6	2.5
800,000	WB15DA-50	33	7.5	17.8	2.4
900,000	WB15DA-60	37.1	7.5	20	2.1
1,000,000	WB15DA-70	41.3	7.1	22.2	2.1
1,100,000	WB15DA-80	45.4	7.2	24.4	2.2
1,200,000	WB15DA-90	49.5	7.5	26.7	2.3
1,300,000	WB15DA-100	52	7.3	30	2.3

HEAT EXCHANGERS

SIZING BRAZED PLATE HEAT EXCHANGERS (CONT'D)

SNOW MELT HEATING

Duty Btu/hr	Model	Boiler 180°F to 160°F GPM	Boiler 180°F to 160°F ΔPsi	Glycol 40% 100°F to 130°F GPM	Glycol 40% 100°F to 130°F ΔPsi
25,000	WB01A-10	2.6	1.7	1.8	0.7
50,000	WB01A-10	5.2	6.3	3.6	2.5
75,000	WB01A-10	7.7	3.2	5.4	1.6
100,000	WB01A-20	10.3	5.6	7.1	2.8
125,000	WB01A-20	12.9	8.7	8.9	4.3
150,000	WB01A-20	15.5	6.7	10.7	3.5
175,000	WB01A-30	18	8.9	12.5	4.6
200,000	WB01A-30	20.6	8.6	14.3	4.5
225,000	WB01A-40	23.2	9.4	16.1	4.9
250,000	WB01A-40	25.8	7.9	17.9	4.3
275,000	WB01A-40	28.3	9.4	19.6	5.1
300,000	WB01A-40	30.9	7.6	21.4	4.1
350,000	WB10A-50	36	7.6	25	4.2
400,000	WB10A-60	41.2	9.8	28.6	5.4
450,000	WB10A-60	46.4	9.9	32.1	5.4
500,000	WB10A-70	51.5	9	35.7	4.9
600,000	WB10A-90	61.8	7.7	42.9	4
700,000	WB20A-50	72.1	7.7	50	4
800,000	WB20A-60	82.4	10	57.4	5.3
900,000	WB20A-80	92.7	8.4	64.3	4.4
1,000,000	WB20A-90	103.1	8.9	71.4	4.7
1,100,000	WB20A-100	113.3	9.6	78.6	5.1
1,200,000	WB20A-120	123.6	9.6	85.7	5.1

DOMESTIC HEATING W 140 F - DOUBLE WALL

Duty Btu/hr	Model	Boiler 140°F to 100°F GPM	Boiler 140°F to 100°F ΔPsi	Domestic 50°F to 120°F GPM	Domestic 50°F to 120°F ΔPsi
25,000	WB15DA-10	1.3	0.1	0.7	0.1
50,000	WB15DA-10	2.5	1.5	1.4	0.3
75,000	WB15DA-20	3.8	0.7	2.1	0.2
100,000	WB15DA-20	5	1.2	2.9	0.4
125,000	WB15DA-20	6.3	1.9	3.6	0.5
150,000	WB15DA-20	7.5	2.6	4.3	0.8
175,000	WB15DA-40	8.8	1.3	5	0.4
200,000	WB15DA-40	10	2.8	5.7	0.6
225,000	WB15DA-40	11.3	2.3	6.4	0.7
250,000	WB15DA-40	12.5	2.9	7.1	0.9
275,000	WB15DA-40	13.8	2.3	7.9	0.7
300,000	WB15DA-40	15	2.7	8.6	0.9
350,000	WB15DA-40	17.5	3.7	10	1.2
400,000	WB15DA-40	20	9	11.4	2.3
450,000	WB15DA-50	22.5	3.9	12.9	1.3
500,000	WB15DA-60	25	3.5	14.3	1.2
600,000	WB15DA-70	30	4.2	17.1	1.4
700,000	WB15DA-80	35	4.6	20	1.5
800,000	WB15DA-90	40	5.2	22.9	1.7
900,000	WB15DA-100	45	6	25.8	2
1,000,000	WB15DA-120	50	7.2	30	2.4

Notes: Consult factory for different materials and sizing.

HEAT EXCHANGERS

SIZING SHELL & TUBE HEAT EXCHANGERS

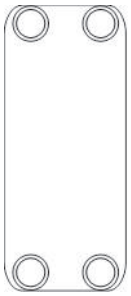
	Steam Pressure = 5 Psi					Steam Pressure = 15 Psi				
Model	Duty kBtu/hr	Water GPM	ΔPsi	Temp In F	Temp Out F	Duty kBtu/hr	Water GPM	ΔPsi	Temp In F	Temp Out F
WST-402-4	166	17	1.5	160	180	250	17	1.5	150	180
WST-403-4	250	17	2	150	180	377	17	2	135	180
WST-404-4	377	17	2.5	135	180	504	17	2.5	120	180
WST-405-4	504	17	3	120	180	675	17	3	100	180
WST-406-4	632	17	3.5	105	180	847	17	3.6	80	180
WST-402-2	167	34	1	170	180	249	345	1	165	180
WST-403-2	249	34	1.2	165	180	416	34	1.2	155	180
WST-404-2	416	34	1.5	155	180	584	34	1.5	145	180
WST-405-2	500	34	1.7	150	180	753	34	1.7	135	180
WST-406-2	668	34	2	140	180	923	34	2	125	180
WST-602-4	498	51	1.4	160	180	750	51	1.4	150	180
WST-603-4	750	51	1.9	150	180	1130	51	1.9	135	180
WST-604-4	1130	51	2.4	135	180	1640	51	2.4	115	180
WST-605-4	1512	51	2.9	120	180	2153	51	2.9	95	180
WST-606-4	1896	51	3.4	105	180	2540	51	3.5	80	180
WST-602-2	546	112	0.9	170	180	546	112	0.9	170	180
WST-603-2	820	112	1.2	165	180	1095	112	1.2	160	180
WST-604-2	1095	112	1.4	160	180	1647	112	1.4	150	180
WST-605-2	1370	112	1.7	155	180	2182	112	1.7	140	180
WST-606-2	1647	112	1.9	150	180	2735	112	1.9	130	180
WST-802-4	909	93	1.4	160	180	1367	93	1.4	150	180
WST-803-4	1367	93	1.9	150	180	1828	93	1.9	140	180
WST-804-4	1828	93	2.3	140	180	2497	93	2.3	125	180
WST-805-4	2292	93	2.8	130	180	3189	93	2.8	110	180
WST-806-4	2757	93	3.3	120	180	4117	93	3.4	90	180
WST-802-2	999	205	0.9	170	180	999	205	0.9	170	180
WST-803-2	1500	205	1.2	165	180	2003	205	1.2	160	180
WST-804-2	2004	205	1.4	160	180	3014	205	1.4	150	180
WST-805-2	2508	205	1.6	155	180	4030	205	1.7	140	180
WST-806-2	3014	205	1.9	150	180	5051	205	1.9	130	180

Notes: Selecting = Go to steam pressure at top of columns and go down to appropriate kBtu/hr capacity and hot water flow rate. For other applications consult factory.

HEAT EXCHANGERS

WB WESPAC BRAZED PLATE — ASME

BRAZED PLATE HEAT EXCHANGER



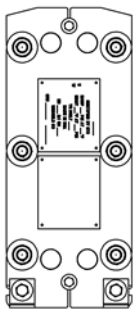
Model	Part Number	Rating (PSI)	No of Plates	Connections		Product Dimensions			Weight	Lead
				Size(in)	Type	L	W	H	(lbs)	Time
WB01A-10	52901010	435	10	3/4	NPT	1.5	3	8	3	1 week
WB01A-20	52901020	435	20	3/4	NPT	2.5	3	8	4	1 week
WB01A-30	52901030	435	30	3/4	NPT	3.5	3	8	5	1 week
WB01A-40	52901040	435	40	3/4	NPT	4.5	3	8	6	1 week
WB10A-20	52910020	435	20	1	NPT	2.5	4	12	11	1 week
WB10A-30	52910030	435	30	1	NPT	3.5	4	12	14	1 week
WB10A-40	52910040	435	40	1	NPT	4.5	4	12	17	1 week
WB10A-50	52910050	435	50	1	NPT	5.5	4	12	20	1 week
WB10A-60	52910060	435	60	1	NPT	6.5	4	12	23	1 week
WB10A-70	52910070	435	70	1	NPT	7.5	4	12	26	1 week
WB10A-80	52910080	435	80	1	NPT	8.5	4	12	29	1 week
WB10A-90	52910090	435	90	1	NPT	9.5	4	12	32	1 week
WB10A-100	52910100	435	100	1	NPT	10.5	4	12	35	1 week
WB11A-40	52911040	435	40	1	NPT	4.5	4	21	27	6 week
WB11A-50	52911050	435	50	1	NPT	5.5	4	21	32	6 week
WB11A-60	52911060	435	60	1	NPT	6.5	4	21	37	1 week
WB11A-70	52911070	435	70	1	NPT	7.5	4	21	42	1 week
WB11A-80	52911080	435	80	1	NPT	8.5	4	21	47	1 week
WB11A-90	52911090	435	90	1	NPT	9.5	4	21	52	1 week
WB11A-100	52911100	435	100	1	NPT	10.5	4	21	57	1 week
WB11A-110	52911110	435	110	1	NPT	11.5	4	21	62	6 week
WB11A-120	52911120	435	120	1	NPT	12.5	4	21	67	6 week
WB20A-40	52920040	435	40	2	NPT	4.5	10	21	65	1 week
WB20A-50	52920050	435	50	2	NPT	5.5	10	21	76	6 week
WB20A-60	52920060	435	60	2	NPT	6.5	10	21	87	1 week
WB20A-70	52920070	435	70	2	NPT	7.5	10	21	99	6 week
WB20A-80	52920080	435	80	2	NPT	8.5	10	21	110	1 week
WB20A-90	52920090	435	90	2	NPT	9.5	10	21	122	6 week
WB20A-100	52920100	435	100	2	NPT	10.5	10	21	133	1 week
WB20A-110	52920110	435	110	2	NPT	11.5	10	21	145	6 week
WB20A-120	52920120	435	120	2	NPT	12.5	10	21	156	1 week
WB15DA-20	52915020	435	20 dw	1	NPT	3	5	12	11	1 week
WB15DA-30	52915030	435	30 dw	1	NPT	4.5	5	12	14	6 week
WB15DA-40	52915040	435	40 dw	1	NPT	5.5	5	12	17	6 week
WB15DA-50	52915050	435	50 dw	1	NPT	7	5	12	20	1 week
WB15DA-60	52915060	435	60 dw	1	NPT	8	5	12	23	6 week
WB15DA-70	52915070	435	70 dw	1	NPT	11	5	12	26	6 week
WB15DA-80	52915080	435	80 dw	1	NPT	12	5	12	29	1 week
WB15DA-90	52915090	435	90 dw	1	NPT	13	5	12	32	6 week
WB15DA-100	52915100	435	100 dw	1	NPT	15	5	12	35	6 week

Notes: Matierals = 316SS Plates/Connections Copper Braze. Max Pressure = 435 PSIG; Max Temperature = 300^{oF} List Price = Based on standard construction. For other sizes and materials consult the factory. Lead time may vary depending on material availability.

HEAT EXCHANGERS

WP WESPLATE AND FRAME — ASME - AHRI CERTIFIED

PLATE AND FRAME EXCHANGER - WITH GASKETS



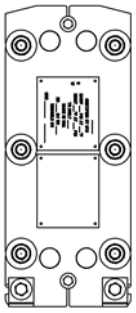
Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP11	WP12	WP22	WP23	WP24	WP30	WP42	WP43
6								
12								
18								
24								
36								
48								
60								
72								
84								
96								
108								
120								
144								
168								
192								
216								
240								
SS Conn Add / ea								
Ti Conn Add / ea								
300 psi Add								
Plate / Thk / Gask	Plates w/ gasket							
304.4.Epdm								
304.5.Epdm								
304.6.Epdm								
316.4.Epdm								
316.5.Epdm								
316.6.Epdm								
Ti.5.Epdm								
304DW.8.Epdm								
316DW.8.Epdm								

Notes: 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.

HEAT EXCHANGERS

WP WESPLATE AND FRAME — ASME - AHRI CERTIFIED

PLATE AND FRAME EXCHANGER



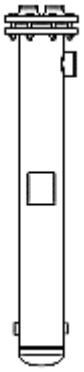
Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP47	WP62	WP63	WP65	WP82	WP83	WP122	WP123
6								
12								
18								
24								
36								
48								
60								
72								
84								
96								
108								
120								
144								
168								
192								
216								
240								
SS Conn Add / ea								
Ti Conn Add / ea								
300 psi Add								
Plate / Thk / Gask	Plates w/ gasket							
304.4.Epdm								
304.5.Epdm								
304.6.Epdm								
316.4.Epdm								
316.5.Epdm								
316.6.Epdm								
Ti.5.Epdm								
304DW.8.Epdm								
316DW.8.Epdm								

Notes: 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.

HEAT EXCHANGERS

WST WESTUBE ASME

U-TUBE HEAT EXCHANGER



Model	"Part Number"	Dia (in)	"Tube Length (ft)"	"Water Connections"		Product Dimensions			"Weight (lbs)"	"Lead Time"
WST-402-4	T1040202	4	2	1	NPT	28	7.5	7.5	60	4 weeks
WST-403-4	T1040302	4	3	1	NPT	40	7.5	7.5	76	4 weeks
WST-404-4	T1040402	4	4	1	NPT	52	7.5	7.5	92	4 weeks
WST-405-4	T1040502	4	5	1	NPT	64	7.5	7.5	108	4 weeks
WST-406-4	T1040602	4	6	1	NPT	76	7.5	7.5	124	4 weeks
WST-402-2	T1040201	4	2	1 1/4	NPT	28	7.5	7.5	60	4 weeks
WST-403-2	T1040301	4	3	1 1/4	NPT	40	7.5	7.5	76	4 weeks
WST-404-2	T1040401	4	4	1 1/4	NPT	52	7.5	7.5	92	4 weeks
WST-405-2	T1040501	4	5	1 1/4	NPT	64	7.5	7.5	108	4 weeks
WST-406-2	T1040601	4	6	1 1/4	NPT	76	7.5	7.5	124	4 weeks
WST-602-4	T1060202	6	2	2	NPT	29	10.5	10.5	132	4 weeks
WST-603-4	T1060302	6	3	2	NPT	41	10.5	10.5	159	4 weeks
WST-604-4	T1060402	6	4	2	NPT	53	10.5	10.5	186	4 weeks
WST-605-4	T1060502	6	5	2	NPT	65	10.5	10.5	213	4 weeks
WST-606-4	T1060602	6	6	2	NPT	77	10.5	10.5	240	4 weeks
WST-602-2	T1060201	6	2	2	NPT	29	10.5	10.5	132	4 weeks
WST-603-2	T1060301	6	3	2	NPT	41	10.5	10.5	159	4 weeks
WST-604-2	T1060401	6	4	2	NPT	53	10.5	10.5	186	4 weeks
WST-605-2	T1060501	6	5	2	NPT	65	10.5	10.5	213	4 weeks
WST-606-2	T1060601	6	6	2	NPT	77	10.5	10.5	240	4 weeks
WST-802-4	T1080202	8	2	2	NPT	29	12.5	12.5	220	4 weeks
WST-803-4	T1080302	8	3	2	NPT	41	12.5	12.5	260	4 weeks
WST-804-4	T1080402	8	4	2	NPT	53	12.5	12.5	300	4 weeks
WST-805-4	T1080502	8	5	2	NPT	65	12.5	12.5	340	4 weeks
WST-806-4	T1080602	8	6	2	NPT	77	12.5	12.5	380	4 weeks
WST-802-2	T1080201	8	2	3	NPT	29	12.5	12.5	220	4 weeks
WST-803-2	T1080301	8	3	3	NPT	41	12.5	12.5	260	4 weeks
WST-804-2	T1080401	8	4	3	NPT	53	12.5	12.5	300	4 weeks
WST-805-2	T1080501	8	5	3	NPT	65	12.5	12.5	340	4 weeks
WST-806-2	T1080601	8	6	3	NPT	77	12.5	12.5	380	4 weeks

Notes: Materials = Copper tubes, steel shell/baffles/tubesheet, cast iron bonnet.
Max pressure = 150 PSIG: Max Temperature = 350 F;
List price = Based on standard contstruction. For other sizes and materials consult the factory.
Loose cradles not included. Consult factory for price and availability. Lead time may vary depending on material availability.

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

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 HVAC 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

MAX. SYSTEM TEMPERATURE (DEG. F) \ MIN. SYSTEM TEMPERATURE (DEG. F)	40	50	60	70	80	90	100
50	0.000						
60	0.001	0.000					
70	0.001	0.001	0.001				
80	0.003	0.003	0.002	0.001			
90	0.004	0.004	0.004	0.003	0.001		
100	0.006	0.006	0.005	0.004	0.003	0.002	
110	0.008	0.008	0.007	0.006	0.005	0.004	0.002
120	0.010	0.010	0.009	0.009	0.007	0.006	0.004
130	0.012	0.012	0.012	0.011	0.010	0.008	0.007
140	0.015	0.015	0.014	0.014	0.012	0.011	0.009
150	0.018	0.018	0.017	0.016	0.015	0.014	0.012
160	0.021	0.021	0.020	0.019	0.018	0.017	0.015
170	0.024	0.024	0.024	0.023	0.022	0.020	0.018
180	0.028	0.028	0.027	0.026	0.025	0.024	0.022
190	0.031	0.031	0.031	0.030	0.029	0.027	0.026
200	0.035	0.035	0.035	0.034	0.033	0.031	0.029
210	0.039	0.039	0.039	0.038	0.037	0.035	0.033
220	0.043	0.043	0.043	0.042	0.041	0.039	0.038
230	0.048	0.048	0.047	0.046	0.045	0.044	0.042
240	0.052	0.052	0.052	0.051	0.050	0.048	0.046

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

MIN. SYS. PRESSURE (PSIG) \ MAX. SYS. PRESSURE (PSIG)	30	40	50	60	70	80	90	100
10	0.447	0.548	0.618	0.669	0.708	0.739	0.764	0.785
12	0.403	0.512	0.587	0.643	0.685	0.718	0.745	0.767
20	0.224	0.366	0.464	0.535	0.590	0.634	0.669	0.697
30		0.183	0.309	0.402	0.472	0.528	0.573	0.610
40			0.155	0.268	0.354	0.422	0.478	0.523
50				0.134	0.236	0.317	0.382	0.436
60					0.118	0.211	0.287	0.349
70						0.106	0.191	0.262
80							0.096	0.174
90								0.087

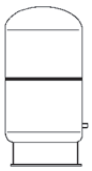
ACCEPTANCE FACTOR FOR ATMOSPHERIC TANKS (NA-SERIES & NAG-SERIES – ONLY

MIN. SYS. PRESSURE (PSIG) \ MAX. SYS. PRESSURE (PSIG)	30	40	50	60	70	80	90	100
10	0.266	0.326	0.368	0.398	0.422	0.440	0.455	0.467
12	0.222	0.282	0.323	0.354	0.377	0.395	0.410	0.422
20	0.095	0.155	0.196	0.227	0.250	0.268	0.283	0.295
30		0.060	0.102	0.132	0.155	0.174	0.188	0.201
40			0.042	0.072	0.095	0.114	0.128	0.141
50				0.030	0.054	0.072	0.087	0.099
60					0.023	0.042	0.056	0.069
70						0.018	0.033	0.045
80							0.015	0.027
90								0.012

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

N HVAC EXPANSION TANKS — NON-ASME

FIXED DIAPHRAGM TANK

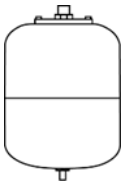


Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
N-15	33010015	150	2.1	7 8/9	7 8/9	10 4/5	1/2	NPT	5	1 Week
N-30	33010030	150	4.8	10 3/5	10 3/5	13 5/7	1/2	NPT	9	1 Week
N-60	33010060	150	6.3	11 4/5	11 4/5	15 2/5	1/2	NPT	14	1 Week
N-90	33010090	150	13.2	15	15	21 1/9	1/2	NPT	23	1 Week
N-40V	33010140	150	21.2	17 5/7	17 5/7	23 3/5	1	NPT	33	1 Week
N-60V	33010160	150	39.7	19 5/7	19 5/7	35 1/5	1	NPT	60	1 Week
N-90V	33010190	150	52.9	23 3/5	23 3/5	33 8/9	1	NPT	81	1 Week
N-110V	33011110	150	66.1	24 4/5	24 4/5	38 1/5	1	NPT	90	1 Week
N-160V	33011260	150	79.4	24 4/5	24 4/5	44 5/7	1	NPT	106	1 Week

Notes: 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. Lead time may vary depending on material availability.

NL HVAC EXPANSION TANKS — NON-ASME

REMOVABLE BLADDER TANK

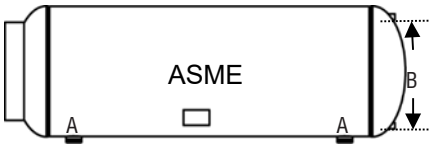


Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	System Connection (in)	Weight (lbs)	Lead Time
NL-15	32051008	150	2.1	7 8/9	7 8/9	12 8/9	3/4	6	1 Week
NL-20	32051012	150	3.2	10 3/5	10 3/5	11 4/5	3/4	7	1 Week
NL-30	32051018	150	4.8	10 3/5	10 3/5	16 1/5	3/4	9	1 Week
NL-60	32051025	150	6.6	11 2/5	11 2/5	19 5/7	3/4	12	1 Week
NL-80L	32051035	150	10.6	12 3/5	12 3/5	22 1/2	1	22	1 Week
NL-90L	32051050	150	15.8	15	15	28 5/7	1	31	1 Week
NL-40VL	32051080	150	21.1	17 5/7	17 5/7	28 8/9	1	35	1 Week
NL-60VL	32051105	150	26.4	17 5/7	17 5/7	31 1/9	1	45	1 Week
NL-90VL	32051200	150	52.8	21 3/5	21 3/5	42 1/2	1 1/2	84	1 Week
NL-110VL	32051300	150	79.2	24 4/5	24 4/5	46 2/7	1 1/2	111	1 Week
NL-160VL	32051500	150	132.1	30 5/7	30 5/7	50 1/2	1 1/2	217	1 Week

Notes: 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. Lead time may vary depending on material availability.

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NA STEEL COMPRESSION TANKS — ASME



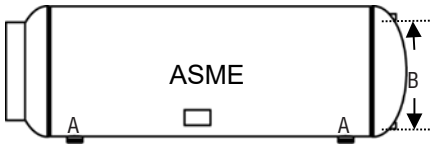
PAINTED PLAIN STEEL

Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions			Distance B	System Connection		Weight (lbs)	Lead Time
				L	W	H		Size (in)	Type		
12NA33	23012033	150	15	33	12	12	8	1	NPT	44	1 Week
12NA51	23012051	150	24	51	12	12	8	1	NPT	62	1 Week
14NA48	23014048	150	30	48	14	14	10	1	NPT	72	1 Week
14NA63	23014063	150	40	63	14	14	10	1	NPT	92	1 Week
16NA72	23016072	150	60	72	16	16	12	1	NPT	120	1 Week
20NA62	23020062	150	80	62 1/2	20	20	16	1	NPT	136	1 Week
20NA78	23020078	150	100	78	20	20	16	1	NPT	168	1 Week
24NA65	23024065	125	120	65	24	24	20	1	NPT	218	1 Week
24NA72	23024072	125	135	72	24	24	20	1	NPT	238	3 Weeks
30NA62	23030062	125	175	62 1/2	30	30	22	1 1/2	NPT	338	3 Weeks
30NA77	23030077	125	220	77	30	30	22	1 1/2	NPT	368	3 Weeks
30NA84	23030084	125	240	84	30	30	22	1 1/2	NPT	394	3 Weeks
30NA105	23030105	125	305	105 3/4	30	30	22	1 1/2	NPT	486	3 Weeks
36NA72	23036072	125	295	72	36	36	28	1 1/2	NPT	502	3 Weeks
36NA93	23036093	125	400	92 1/2	36	36	28	1 1/2	NPT	645	3 Weeks
36NA120	23036120	125	505	120	36	36	28	1 1/2	NPT	810	3 Weeks
42NA96	23042096	125	525	96	42	42	28	2	NPT	895	3 Weeks

Notes: For Stainless Steel versions go to pg. 74. Lead time may vary depending on material availability.

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NAG STEEL COMPRESSION TANKS — ASME



GALVANIZED STEEL

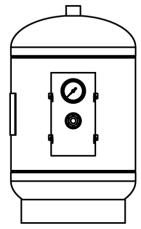
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions			Distance B	System Connection		Weight (lbs)	Lead Time
				L	W	H		Size (in)	Type		
12NAG33	16012033	150	15	33	12	12	8	1	NPT	49	6 Weeks
12NAG51	16012051	150	24	51	12	12	8	1	NPT	69	6 Weeks
14NAG48	16014048	150	30	48	14	14	10	1	NPT	80	6 Weeks
14NAG63	16014063	150	40	63	14	14	10	1	NPT	102	6 Weeks
16NAG72	16016072	150	60	72	16	16	12	1	NPT	134	6 Weeks
20NAG62	16020062	150	80	62	20	20	16	1	NPT	151	6 Weeks
20NAG78	16020078	150	100	78	20	20	16	1	NPT	187	6 Weeks
24NAG65	16024065	125	120	65	24	24	20	1	NPT	238	6 Weeks
24NAG72	16024072	125	135	72	24	24	20	1	NPT	258	6 Weeks
30NAG62	16030062	125	175	62	30	30	22	1 1/2	NPT	361	6 Weeks
30NAG77	16030077	125	220	77	30	30	22	1 1/2	NPT	396	6 Weeks
30NAG84	16030084	125	240	84	30	30	22	1 1/2	NPT	424	6 Weeks
30NAG105	16030105	125	305	105	30	30	22	1 1/2	NPT	523	6 Weeks
36NAG72	16036072	125	295	72	36	36	28	1 1/2	NPT	540	6 Weeks
36NAG93	16036093	125	400	93	36	36	28	1 1/2	NPT	686	6 Weeks
36NAG120	16036120	125	505	120	36	36	28	1 1/2	NPT	844	6 Weeks
42NAG96	16042096	125	525	96	42	42	28	1 1/2	NPT	928	6 Weeks

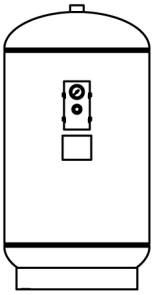
Notes: Materials = Steel; Maximum Pressure = 150 PSIG for 12NA33(12NAG33) to 20NA78(16NAG72) and 125 PSIG for all other models; Maximum Temperature = 450°F; Finish = Primer for NA & Galvanized Steel Interior & Exterior for NAG; Gauge glass tappings are ½" NPT; Base stands included on all models except 36NA120 & 42NA96 and 30NAG105 thru 42NAG96. Lead time may vary depending on material availability.

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NTA HVAC EXPANSION TANKS — ASME

FIXED DIAPHRAGM TANK



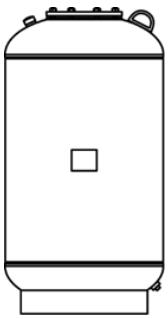


Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
					L	W	H	Size (in)	Type		
NTA-15	19010015	150	7.8	6.3	12	12	19	3/4	NPT	42	1 Week
NTA-20	19010020	150	11	8.8	12	12	25	3/4	NPT	52	1 Week
NTA-40	19010040	150	25	20.2	16	16	33	1	NPT	84	1 Week
NTA-60	19010060	150	35	28	16	16	44	1	NPT	97	1 Week
NTA-80	19010080	125	45	36	20	20	38	1	NPT	148	1 Week
NTA-100	19010100	125	60	48.5	20	20	49	1	NPT	175	1 Week
NTA-120	19010120	125	70	56.5	24	24	46	1 1/2	NPT	259	1 Week
NTA-144	19010144	125	80	65	24	24	49	1 1/2	NPT	268	1 Week
NTA-180	19010180	125	90	73	24	24	52	1 1/2	NPT	283	1 Week
NTA-200	19010200	125	115	93	24	24	66	1 1/2	NPT	325	1 Week
NTA-240	19010240	125	140	113.5	24	24	78	1 1/2	NPT	362	1 Week
NTA-260	19010260	125	158	128	30	30	63	1 1/2	NPT	591	1 Week
NTA-280	19010280	125	211	171	30	30	81	1 1/2	NPT	752	1 Week

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG for NTA-15 through NTA-60; All Others 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG. Lead time may vary depending on material availability.

NLAP HVAC EXPANSION TANKS — ASME

REMOVABLE BLADDER TANK



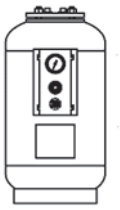
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
					L	W	H	Size (in)	Type		
NLAP-40	22510040	125	11	11	12	12	27	3/4	NPT	42	1 Week
NLAP-60	22510060	125	15	15	14	14	26	3/4	NPT	52	1 Week
NLAP-100	22510100	125	25	25	16	16	32	1	NPT	77	1 Week
NLAP-150	22510150	125	39	34	16	16	48 1/2	1	NPT	115	1 Week
NLAP-220	22510220	125	58	53	20	20	48 1/2	1 1/2	NPT	170	1 Week
NLAP-325	22510325	125	85	85	24	24	50 1/2	1 1/2	NPT	225	2 Weeks
NLAP-400	22510400	125	104	104	24	24	57 1/2	1 1/2	NPT	250	2 Weeks
NLAP-560	22510560	125	147	147	30	30	53	1 1/2	NPT	325	2 Weeks
NLAP-600	22510600	125	158	158	30	30	58	1 1/2	NPT	350	2 Weeks
NLAP-700	22510700	125	185	185	30	30	66	1 1/2	NPT	400	2 Weeks
NLAP-815	22510815	125	215	215	36	36	58	1 1/2	NPT	475	2 Weeks
NLAP-950	22510950	125	250	250	36	36	66	1 1/2	NPT	540	2 Weeks
NLAP-1100	22511100	125	290	290	36	36	75	1 1/2	NPT	625	2 Weeks

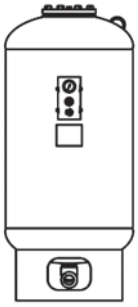
Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG. Lead time may vary depending on material availability.

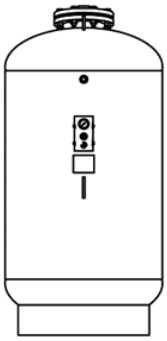
HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NLA HVAC EXPANSION TANKS — ASME

REMOVABLE BLADDER TANK – 125 PSI







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
					L	W	H	Size (in)	Type		
NLA-35	22010035	125	10	10	12	12	23 1/2	3/4	NPT	40	1 Week
NLA-50	22010050	125	13	13	14	14	24	3/4	NPT	50	1 Week
NLA-85	22010085	125	23	23	16	16	37	1	NPT	90	1 Week
NLA-130	22010130	125	35	35	20	20	37	1	NPT	125	1 Week
NLA-200	22010200	125	53	53	24	24	37	1 1/2	NPT	210	1 Week
NLA-300	22010300	125	79	79	24	24	43	1 1/2	NPT	225	1 Week
NLA-400	22010400	125	106	106	30	30	55	1 1/2	NPT	300	2 Weeks
NLA-500	22010500	125	132	132	30	30	49	1 1/2	NPT	335	2 Weeks
NLA-600	22010600	125	158	158	30	30	57	1 1/2	NPT	360	2 Weeks
NLA-800L	22010805	125	211	211	32	32	65	1 1/2	NPT	475	2 Weeks
NLA-1000	22011000	125	264	264	36	36	76	1 1/2	NPT	552	2 Weeks
NLA-1200	22011200	125	317	317	36	36	88	1 1/2	NPT	679	2 Weeks
NLA-1400	22011400	125	370	370	36	36	100	1 1/2	NPT	688	2 Weeks
NLA-1600	22011600	125	422	422	48	48	74	1 1/2	NPT	1046	3 Weeks
NLA-2000	22012000	125	528	528	48	48	86	1 1/2	NPT	1150	3 Weeks
NLA-2500	22012500	125	660	660	48	48	104	2	NPT	1444	3 Weeks
NLA-3000L	22013000	125	792	792	48	48	124	2	NPT	1658	3 Weeks
NLA-3000S	22013001	125	792	792	60	60	83	2	NPT	1868	4 Weeks
NLA-4000	22014000	125	1056	1056	60	60	105	2	NPT	2238	4 Weeks
NLA-5000	22015000	125	1320	1320	60	60	128	2	NPT	2617	4 Weeks
NLA-7500	22017500	125	1980	1980	72	72	131	3	NPT	3768	4 Weeks
NLA-10000	22019999	125	2640	2640	72	72	162	3	NPT	4628	4 Weeks
NLA-15000	22019998	125	3963	3963	72	72	233	3	NPT	5925	4 Weeks

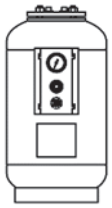
Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

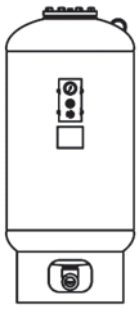
Specify Standard or WessGuard® Bladder Monitor

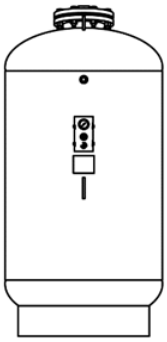
HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NLA-HP HVAC EXPANSION TANKS — ASME

HIGH PRESSURE REMOVABLE BLADDER TANK - 200 PSI







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
					L	W	H	Size (in)	Type		
NLA-35-HP	22040035	200	10	10	12	12	23 1/2	3/4	NPT	52	2 Weeks
NLA-50-HP	22040050	200	13	13	14	14	24	3/4	NPT	59	2 Weeks
NLA-85-HP	22040085	200	23	23	16	16	37	1	NPT	95	2 Weeks
NLA-130-HP	22040130	200	35	35	20	20	37	1	NPT	127	2 Weeks
NLA-200-HP	22040200	200	53	53	24	24	43	1 1/2	NPT	194	2 Weeks
NLA-300-HP	22040300	200	79	79	24	24	55	1 1/2	NPT	252	2 Weeks
NLA-400-HP	22040400	200	106	106	30	30	49	1 1/2	NPT	336	3 Weeks
NLA-500-HP	22040500	200	132	132	30	30	57	1 1/2	NPT	400	3 Weeks
NLA-600-HP	22040600	200	158	158	30	30	65	1 1/2	NPT	419	3 Weeks
NLA-800L-HP	22040805	200	211	211	32	32	76	1 1/2	NPT	592	3 Weeks
NLA-1000-HP	22041000	200	264	264	36	36	76	1 1/2	NPT	698	3 Weeks
NLA-1200-HP	22041200	200	317	317	36	36	88	1 1/2	NPT	905	3 Weeks
NLA-1400-HP	22041400	200	370	370	36	36	100	1 1/2	NPT	1107	3 Weeks
NLA-1600-HP	22041600	200	422	422	48	48	74	1 1/2	NPT	1413	4 Weeks
NLA-2000-HP	22042000	200	528	528	48	48	86	1 1/2	NPT	1643	4 Weeks
NLA-2500-HP	22042500	200	660	660	48	48	104	2	NPT	1935	4 Weeks
NLA-3000L-HP	22043000	200	792	792	48	48	124	2	NPT	2198	4 Weeks
NLA-3000S-HP	22043001	200	792	792	60	60	83	2	NPT	2694	5 Weeks
NLA-4000-HP	22044000	200	1056	1056	60	60	105	2	NPT	3291	5 Weeks
NLA-5000-HP	22045000	200	1320	1320	60	60	128	2	NPT	3858	5 Weeks
NLA-7500-HP	22047500	200	1980	1980	72	72	131	3	NPT	5491	5 Weeks
NLA-10000-HP	22049999	200	2640	2640	72	72	162	3	NPT	6796	5 Weeks
NLA-15000-HP	22040000	200	3963	3963	72	72	233	3	NPT	9814	4 Weeks

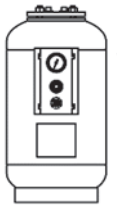
Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 200PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

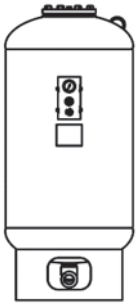
FOR SIGHT GLASS ADD TO LIST ($)

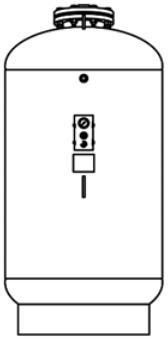
HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NLA-HP HVAC EXPANSION TANKS — ASME

HIGH PRESSURE REMOVABLE BLADDER TANK - 250 PSI







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
NLA-35-HP	22050035	250	10	10	12	12	23 1/2	3/4	NPT	53	2 Weeks
NLA-50-HP	22050050	250	13	13	14	14	24	3/4	NPT	65	2 Weeks
NLA-85-HP	22050080	250	23	23	16	16	37	1	NPT	105	2 Weeks
NLA-130-HP	22050130	250	35	35	20	20	37	1	NPT	141	2 Weeks
NLA-200-HP	22050200	250	53	53	24	24	43	1 1/2	NPT	220	2 Weeks
NLA-300-HP	22050300	250	79	79	24	24	55	1 1/2	NPT	282	2 Weeks
NLA-400-HP	22050400	250	106	106	30	30	49	1 1/2	NPT	410	3 Weeks
NLA-500-HP	22050500	250	132	132	30	30	57	1 1/2	NPT	512	3 Weeks
NLA-600-HP	22050600	250	158	158	30	30	65	1 1/2	NPT	569	3 Weeks
NLA-800L-HP	22050805	250	211	211	32	32	76	1 1/2	NPT	711	3 Weeks
NLA-1000-HP	22051000	250	264	264	36	36	76	1 1/2	NPT	830	3 Weeks
NLA-1200-HP	22051200	250	317	317	36	36	88	1 1/2	NPT	1118	3 Weeks
NLA-1400-HP	22051400	250	370	370	36	36	100	1 1/2	NPT	1330	3 Weeks
NLA-1600-HP	22051600	250	422	422	48	48	74	1 1/2	NPT	1713	4 Weeks
NLA-2000-HP	22052000	250	528	528	48	48	86	1 1/2	NPT	2026	4 Weeks
NLA-2500-HP	22052500	250	660	660	48	48	104	2	NPT	2352	4 Weeks
NLA-3000L-HP	22053000	250	792	792	48	48	124	2	NPT	2782	4 Weeks
NLA-3000S-HP	22053001	250	792	792	60	60	83	2	NPT	2965	5 Weeks
NLA-4000-HP	22054000	250	1056	1056	60	60	105	2	NPT	3736	5 Weeks
NLA-5000-HP	22055000	250	1320	1320	60	60	128	2	NPT	4485	5 Weeks
NLA-7500-HP	22057500	250	1980	1980	72	72	131	3	NPT	6583	5 Weeks
NLA-10000-HP	22059999	250	2640	2640	72	72	162	3	NPT	8068	5 Weeks
NLA-15000-HP	22050000	250	3963	3963	72	72	233	3	NPT	12030	5 Weeks

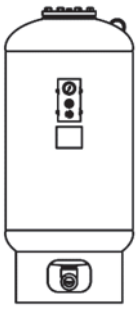
Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 250 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

FOR SIGHT GLASS ADD TO LIST ($)

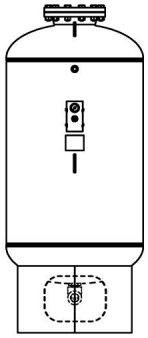
HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NVA HVAC EXPANSION TANKS — ASME

BOTTOM SYSTEM CONNECTION REMOVABLE BLADDER TANK



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
NVA-85	22000085	125	23	23	16	16	37	1	NPT	90	1 Week
NVA-130	22000130	125	35	35	20	20	37	1	NPT	125	1 Week
NVA-200	22000200	125	53	53	24	24	43	1 1/2	NPT	210	1 Week
NVA-300	22000300	125	79	79	24	24	55	1 1/2	NPT	225	1 Week
NVA-400	22000400	125	106	106	30	30	49	1 1/2	NPT	300	2 Weeks
NVA-500	22000500	125	132	132	30	30	57	1 1/2	NPT	335	2 Weeks
NVA-600	22000600	125	158	158	30	30	65	1 1/2	NPT	360	2 Weeks
NVA-800L	22000805	125	211	211	32	32	76	1 1/2	NPT	475	2 Weeks



NVA-1000	22001000	125	264	264	36	36	87	3	NPT	735	2 Weeks
NVA-1200	22001200	125	317	317	36	36	98 1/2	3	NPT	745	2 Weeks
NVA-1400	22001400	125	370	370	36	36	110 1/2	3	NPT	900	2 Weeks
NVA-1600	22001600	125	422	422	48	48	84	3	NPT	1210	3 Weeks
NVA-2000	22002000	125	528	528	48	48	96	3	NPT	1305	3 Weeks
NVA-2500	22002500	125	660	660	48	48	110	4	NPT	1430	3 Weeks
NVA-3000L	22003000	125	792	792	48	48	133	4	NPT	1575	3 Weeks
NVA-3000S	22003001	125	792	792	60	60	93	4	NPT	2169	4 Weeks
NVA-4000	22004000	125	1056	1056	60	60	115	4	NPT	2638	4 Weeks
NVA-5000	22005000	125	1320	1320	60	60	138	4	NPT	3246	4 Weeks
NVA-7500	22007500	125	1980	1980	72	72	140	4	NPT	4080	4 Weeks
NVA-10000	22009999	125	2640	2640	72	72	172	4	NPT	4920	4 Weeks
NVA-15000	22000000	125	3963	3963	72	72	243	4	NPT	6000	4 Weeks

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG. Lead time may vary depending on material availability.

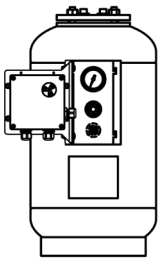
FOR SIGHT GLASS ADD TO LIST ($)

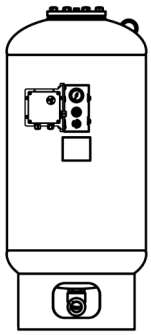
HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

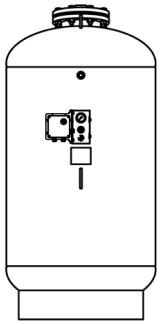
NLA-WG HVAC EXPANSION TANKS — ASME

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







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
NLA-35-WG	62010035	125	10	10	12	12	23 1/2	3/4	NPT	40	1 Week
NLA-50-WG	62010050	125	13	13	14	14	24	3/4	NPT	50	1 Week
NLA-85-WG	62010085	125	23	23	16	16	37	1	NPT	90	1 Week
NLA-130-WG	62010130	125	35	35	20	20	37	1	NPT	125	1 Week
NLA-200-WG	62010200	125	53	53	24	24	43	1 1/2	NPT	210	1 Week
NLA-300-WG	62010300	125	79	79	24	24	55	1 1/2	NPT	225	1 Week
NLA-400-WG	62010400	125	106	106	30	30	49	1 1/2	NPT	300	1 Week
NLA-500-WG	62010500	125	132	132	30	30	57	1 1/2	NPT	335	1 Week
NLA-600-WG	62010600	125	158	158	30	30	65	1 1/2	NPT	360	1 Week
NLA-800L-WG	62010805	125	211	211	32	32	76	1 1/2	NPT	475	2 Weeks
NLA-1000-WG	62011000	125	264	264	36	36	76	1 1/2	NPT	552	2 Weeks
NLA-1200-WG	62011200	125	317	317	36	36	88	1 1/2	NPT	679	2 Weeks
NLA-1400-WG	62011400	125	370	370	36	36	100	1 1/2	NPT	688	2 Weeks
NLA-1600-WG	62011600	125	422	422	48	48	74	1 1/2	NPT	1046	2 Weeks
NLA-2000-WG	62012000	125	528	528	48	48	86	1 1/2	NPT	1150	2 Weeks
NLA-2500-WG	62012500	125	660	660	48	48	104	2	NPT	1444	2 Weeks
NLA-3000L-WG	62013000	125	792	792	48	48	124	2	NPT	1658	3 Weeks
NLA-3000S-WG	62013001	125	792	792	60	60	83	2	NPT	1868	3 Weeks
NLA-4000-WG	62014000	125	1056	1056	60	60	105	2	NPT	2238	3 Weeks
NLA-5000-WG	62015000	125	1320	1320	60	60	128	2	NPT	2617	3 Weeks
NLA-7500-WG	62017500	125	1980	1980	72	72	131	3	NPT	3768	4 Weeks
NLA-10000-WG	62019999	125	2640	2640	72	72	162	3	NPT	4628	4 Weeks
NLA-15000-WG	62010000	125	3963	3963	72	72	233	3	NPT	5925	4 Weeks

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

Specify Standard or WessGuard® Bladder Monitor

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

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.

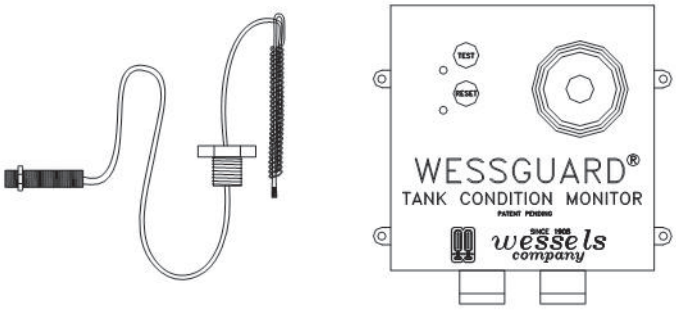
WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual LED and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - NLA

		Product Dimension		Tank Connection			
Model	Part Number	Length	Height	Size (in)	Type	Weight (lbs)	Lead Time
WG-RETRO	61110001	5 1/4	5 1/4	1	Sight Glass	3	2 Weeks
WG-RETRO2	61110002	5 1/4	1	1/2	NPT	3	2 Weeks

WG-RETRO2 is used on models manufactured in 2018 or later.

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® Bladder Monitor

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NL REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NL 15	03200015	NA	05200015
NL 20	03200020	NA	05200020
NL 30	03200030	NA	05200030
NL 60	03200090	NA	05200060
NL 80L	03200080	NA	05200080
NL 90L	03200090	NA	05200090
NL 40VL	03200140	NA	05200140
NL 60VL	03200160	NA	05200160
NL 90VL	03200190	NA	05200190
NL 110VL	03200210	NA	05201110
NL 160VL	03200260	NA	05201160

NLA REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NLA 35	02220035	NA	05220035
NLA 50	02220050	NA	05220050
NLA 85	02220085	04220085	05220085
NLA 130	02220130	04220130	05220130
NLA 200	02220200	04220200	05220200
NLA 300	02220300	04220300	05220300
NLA 400	02220400	04220400	05220400
NLA 500	02220500	04220500	05220500
NLA 600	02220600	04220600	05220600
NLA 800L	02220805	04220805	05220805
NLA 1000	9800220	NA	05221000
NLA 1200	9800240	NA	05221200
NLA 1400	9800260	NA	05221400
NLA 1600	9800280	NA	05221600
NLA 2000	9800300	NA	05222000
NLA 2500	9800305	NA	05222500
NLA 3000L	9800320	NA	05223000
NLA 3000S	9800325	NA	05223001
NLA 4000	9800340	NA	05224000
NLA 5000	9800360	NA	05225000
NLA 7500	9800380	NA	05227500
NLA 10000	9800390	NA	05220000

HVAC EXPANSION TANKS FOR BOILER/CHILLER SYSTEMS

NLAP REPLACEMENT BLADDERS & COVERS

	Bladder	Bottom Assembly	Top Assembly
Model	Part No.	Part No.	Part No.
NLAP-40	02250040	NA	05220035
NLAP-60	02250060	NA	05220050
NLAP-100	02250100	NA	05220085
NLAP-150	02250150	NA	05220150
NLAP-220	02250220	NA	05220220
NLAP-325	02250325	NA	05220325
NLAP-400	02250400	NA	05220401
NLAP-560	02250560	NA	05220560
NLAP-600	02250600	NA	05220601
NLAP-700	02250700	NA	05220700
NLAP-815	02250815	NA	05220815
NLAP-950	02250950	NA	05220950
NLAP-1100	02251100	NA	05221100

NVA REPLACEMENT BLADDERS & COVERS

	Bladder	Bottom Assembly	Top Assembly
Model	Part No.	Part No.	Part No.
NVA 85	02210085	04310085	05310085
NVA 130	02210130	04310130	05310130
NVA 200	02210200	04310200	05310200
NVA 300	02210300	04310300	05310300
NVA 400	02210400	04310400	05310400
NVA 500	02210500	04310500	05310500
NVA 600	02210600	04310600	05310600
NVA 800L	02210805	04310805	05310805
NVA 1000	02211000	04311000	05311000
NVA 1200	02211200	04311200	05311200
NVA 1400	02211400	04311400	05311400
NVA 1600	02211600	04311600	05311600
NVA 2000	02212000	04312000	05312000
NVA 2500	02212500	04312500	05312500
NVA 3000L	02213000	04313000	05313000
NVA 3000S	02213005	04313001	05313001
NVA 4000	02214000	04314000	05314000
NVA 5000	02215000	04315000	05315000
NVA 7500	02217500	04317500	05317500
NVA 10000	02219999	04310000	05310000

HYDRONIC ACCESSORIES

SIZING CHILLED-WATER BUFFER TANKS

Chilled water Buffer Tanks (CBT) are designed for chilled water systems with insufficient water volume capacity, in relation to the chiller capacity. Relatively low water volume systems require additional “buffer” capacity for the system to eliminate problems such as excessive chiller cycling, poor temperature control , and erratic system operation. The properly sized CBT adds the necessary volume to “buffer” the system volume.

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)

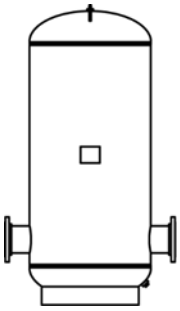
Use the following form to calculate tank size:

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



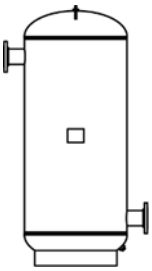
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
				L	W	H	Size (in)	Type		
CBT-120-3F	55240131	125	120	32	24	60	3	FLANGE	300	2 Weeks
CBT-120-4F	55240134	125	120	36	24	60	4	FLANGE	308	2 Weeks
CBT-120-6F	55240138	125	120	36	24	60	6	FLANGE	320	2 Weeks
CBT-120-8F	55240140	125	120	36	24	60	8	FLANGE	342	2 Weeks
CBT-120-10F	55240142	125	120	36	24	60	10	FLANGE	368	2 Weeks
CBT-120-12F	55240144	125	120	36	24	60	12	FLANGE	410	2 Weeks
CBT-200-3F	55300211	125	200	38	30	72	3	FLANGE	445	2 Weeks
CBT-200-4F	55300214	125	200	42	30	72	4	FLANGE	453	2 Weeks
CBT-200-6F	55300218	125	200	42	30	72	6	FLANGE	465	2 Weeks
CBT-200-8F	55300220	125	200	42	30	72	8	FLANGE	487	2 Weeks
CBT-200-10F	55300222	125	200	42	30	72	10	FLANGE	513	2 Weeks
CBT-200-12F	55300224	125	200	42	30	72	12	FLANGE	555	2 Weeks
CBT-300-3F	55360311	125	300	44	36	72	3	FLANGE	580	2 Weeks
CBT-300-4F	55360314	125	300	48	36	72	4	FLANGE	588	2 Weeks
CBT-300-6F	55360318	125	300	48	36	72	6	FLANGE	600	2 Weeks
CBT-300-8F	55360320	125	300	48	36	72	8	FLANGE	622	2 Weeks
CBT-300-10F	55360322	125	300	48	36	72	10	FLANGE	648	2 Weeks
CBT-300-12F	55360324	125	300	48	36	72	12	FLANGE	690	2 Weeks
CBT-500-3F	55420511	125	500	50	42	90	3	FLANGE	1040	3 Weeks
CBT-500-4F	55420514	125	500	54	42	90	4	FLANGE	1048	3 Weeks
CBT-500-6F	55420518	125	500	54	42	90	6	FLANGE	1060	3 Weeks
CBT-500-8F	55420520	125	500	54	42	90	8	FLANGE	1082	3 Weeks
CBT-500-10F	55420522	125	500	54	42	90	10	FLANGE	1108	3 Weeks
CBT-500-12F	55420524	125	500	54	42	90	12	FLANGE	1150	3 Weeks
CBT-850-3F	55540861	125	850	62	54	96	3	FLANGE	1835	3 Weeks
CBT-850-4F	55540864	125	850	66	54	96	4	FLANGE	1843	3 Weeks
CBT-850-6F	55540868	125	850	66	54	96	6	FLANGE	1855	3 Weeks
CBT-850-8F	55540870	125	850	66	54	96	8	FLANGE	1877	3 Weeks
CBT-850-10F	55540872	125	850	66	54	96	10	FLANGE	1903	3 Weeks
CBT-850-12F	55540874	125	850	66	54	96	12	FLANGE	1945	3 Weeks
CBT-1040-3F	55601052	125	1040	68	60	96	3	FLANGE	2028	3 Weeks
CBT-1040-4F	55601055	125	1040	72	60	96	4	FLANGE	2036	3 Weeks
CBT-1040-6F	55601059	125	1040	72	60	96	6	FLANGE	2048	3 Weeks
CBT-1040-8F	55601061	125	1040	72	60	96	8	FLANGE	2070	3 Weeks
CBT-1040-10F	55601063	125	1040	72	60	96	10	FLANGE	2096	3 Weeks
CBT-1040-12F	55601065	125	1040	72	60	96	12	FLANGE	2138	3 Weeks

Notes: 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. Lead time may vary depending on material availability.

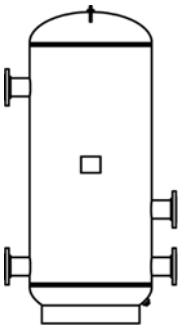
HYDRONIC ACCESSORIES

HBT HOT WATER BUFFER TANKS — ASME

HOT WATER BUFFER TANKS – 2 Ports



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
HBT-120-2N	55621212	125	120	28	24	60	2	NPT	250	2 Weeks
HBT-120-3N	55621213	125	120	28	24	60	3	NPT	250	2 Weeks
HBT-120-3	55621203	125	120	28	24	60	3	FLANGE	322	2 Weeks
HBT-120-4	55621204	125	120	28	24	60	4	FLANGE	334	2 Weeks
HBT-210-2N	55622112	125	210	34	30	76 1/2	2	NPT	416	2 Weeks
HBT-210-3N	55622113	125	210	34	30	76 1/2	3	NPT	416	2 Weeks
HBT-210-3	55622103	125	210	34	30	76 1/2	3	FLANGE	452	2 Weeks
HBT-210-4	55622104	125	210	34	30	76 1/2	4	FLANGE	462	2 Weeks
HBT-300-2N	55623012	125	300	40	36	72	2	NPT	620	2 Weeks
HBT-300-3N	55623013	125	300	40	36	72	3	NPT	620	2 Weeks
HBT-300-3	55623003	125	300	40	36	72	3	FLANGE	640	2 Weeks
HBT-300-4	55623004	125	300	40	36	72	4	FLANGE	660	2 Weeks



HOT WATER BUFFER TANKS – 4 Ports

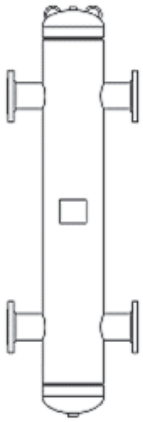
HBT-120-22	55641222	125	120	28	24	60	2" & 2"	FLANGE	206	2 Weeks
HBT-120-23	55641223	125	120	29	24	60	2" & 3"	FLANGE	228	2 Weeks
HBT-120-24	55641224	125	120	30	24	60	2" & 4"	FLANGE	235	2 Weeks
HBT-120-26	55641226	125	120	32	24	60	2" & 6"	FLANGE	254	2 Weeks
HBT-120-33	55641233	125	120	31	24	60	3" & 3"	FLANGE	246	2 Weeks
HBT-120-34	55641234	125	120	32	24	60	3" & 4"	FLANGE	255	2 Weeks
HBT-120-36	55641236	125	120	33	24	60	3" & 6"	FLANGE	274	2 Weeks
HBT-120-44	55641244	125	120	32	24	60	4" & 4"	FLANGE	264	2 Weeks
HBT-120-46	55641246	125	120	34	24	60	4" & 6"	FLANGE	283	2 Weeks
HBT-210-22	55642122	125	210	34	30	76 1/2	2" & 2"	FLANGE	408	2 Weeks
HBT-210-23	55642123	125	210	35	30	76 1/2	2" & 3"	FLANGE	426	2 Weeks
HBT-210-24	55642124	125	210	36	30	76 1/2	2" & 4"	FLANGE	435	2 Weeks
HBT-210-26	55642126	125	210	38	30	76 1/2	2" & 6"	FLANGE	454	2 Weeks
HBT-210-33	55642133	125	210	36	30	76 1/2	3" & 3"	FLANGE	546	2 Weeks
HBT-210-34	55642134	125	210	37	30	76 1/2	3" & 4"	FLANGE	455	2 Weeks
HBT-210-36	55642136	125	210	39	30	76 1/2	3" & 6"	FLANGE	574	2 Weeks
HBT-210-44	55642144	125	210	38	30	76 1/2	4" & 4"	FLANGE	564	2 Weeks
HBT-210-46	55642146	125	210	40	30	76 1/2	4" & 6"	FLANGE	583	2 Weeks
HBT-300-22	55643022	125	300	40	36	72	2" & 2"	FLANGE	739	2 Weeks
HBT-300-23	55643023	125	300	41	36	72	2" & 3"	FLANGE	759	2 Weeks
HBT-300-24	55643024	125	300	42	36	72	2" & 4"	FLANGE	768	2 Weeks
HBT-300-26	55643026	125	300	44	36	72	2" & 6"	FLANGE	787	2 Weeks
HBT-300-33	55643033	125	300	42	36	72	3" & 3"	FLANGE	779	2 Weeks
HBT-300-34	55643034	125	300	43	36	72	3" & 4"	FLANGE	788	2 Weeks
HBT-300-36	55643036	125	300	45	36	72	3" & 6"	FLANGE	807	2 Weeks
HBT-300-44	55643044	125	300	44	36	72	4" & 4"	FLANGE	797	2 Weeks
HBT-300-46	55643046	125	300	46	36	72	4" & 6"	FLANGE	816	2 Weeks

Notes: Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer; ¾" NPT Top Vent Connec-tion; 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. Lead time may vary depending on material availability.

HYDRONIC ACCESSORIES

PSA PRIMARY/SECONDARY HEADER — ASME

WITH INTERNAL BAFFLE – 150 PSI

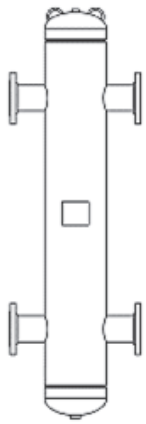


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
PSA-2	71002020	150	6 5/8	14 3/4	34 1/4	2	FLANGE	69	90	3 Weeks
PSA-2.5	71002025	150	6 5/8	14 3/4	39 1/4	2 1/2	FLANGE	108	115	3 Weeks
PSA-3	71002030	150	10 3/4	18 3/4	49 1/2	3	FLANGE	144	225	3 Weeks
PSA-4	71002040	150	10 3/4	22 3/4	70 1/4	4	FLANGE	255	330	3 Weeks
PSA-5	71002050	150	14	26	80 1/2	5	FLANGE	398	215	3 Weeks
PSA-6	71002060	150	18	30	93 3/4	6	FLANGE	570	320	3 Weeks
PSA-8	71002080	150	24	36	122 3/4	8	FLANGE	945	575	4 Weeks
PSA-10	71002100	150	30	42	149 1/4	10	FLANGE	1440	935	4 Weeks
PSA-12	71002120	150	30	42	179 1/2	12	FLANGE	2100	1165	4 Weeks
PSA-14	71002140	150	42	54	199 1/4	14	FLANGE	2550	2430	6 Weeks
PSA-16	71002160	150	48	60	224 1/4	16	FLANGE	3300	3260	6 Weeks

Notes: Materials = Steel Shell; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior; Support Legs Standard on Models PSA-6 and Up. Lead time may vary depending on material availability.

PSAV PRIMARY/SECONDARY HEADER — ASME

WITH WESS-VENT AIR/DIRT SEPARATION – 150 PSI

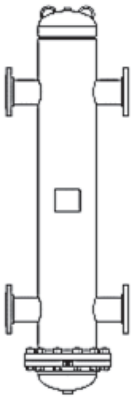


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
PSAV-2	71102020	150	6 5/8	14 3/4	34 1/4	2	FLANGE	69	120	3 Weeks
PSAV-2.5	71102025	150	6 5/8	14 3/4	39 1/4	2 1/2	FLANGE	108	145	3 Weeks
PSAV-3	71102030	150	10 3/4	18 3/4	49 1/2	3	FLANGE	144	270	3 Weeks
PSAV-4	71102040	150	10 3/4	22 3/4	70 1/4	4	FLANGE	255	380	3 Weeks
PSAV-5	71102050	150	14	26	80 1/2	5	FLANGE	398	280	3 Weeks
PSAV-6	71102060	150	18	30	93 3/4	6	FLANGE	570	375	3 Weeks
PSAV-8	71102080	150	24	36	122 3/4	8	FLANGE	945	635	4 Weeks
PSAV-10	71102100	150	30	42	149 1/4	10	FLANGE	1440	995	4 Weeks
PSAV-12	71102120	150	30	42	179 1/2	12	FLANGE	2100	1250	4 Weeks
PSAV-14	71102140	150	42	54	199 1/4	14	FLANGE	2550	2480	6 Weeks
PSAV-16	71102160	150	48	60	224 1/4	16	FLANGE	3300	3310	6 Weeks

Notes: 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. Lead time may vary depending on material availability.

PSAVR PRIMARY/SECONDARY HEADER ASME

WITH REMOVABLE WESS-VENT AIR/DIRT SEPARATOR – 150 PSI

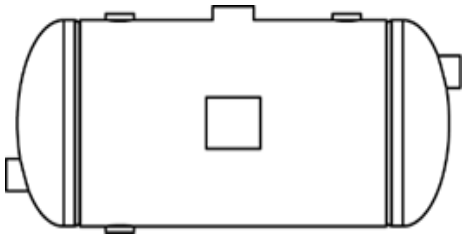


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
PSAVR-2	71302020	150	6 5/8	14 3/4	34 1/4	2	FLANGE	69	162	3 Weeks
PSAVR-2.5	71302025	150	6 5/8	14 3/4	39 1/4	2 1/2	FLANGE	108	187	3 Weeks
PSAVR-3	71302030	150	10 3/4	18 3/4	49 1/2	3	FLANGE	144	354	3 Weeks
PSAVR-4	71302040	150	10 3/4	22 3/4	70 1/4	4	FLANGE	255	464	3 Weeks
PSAVR-5	71302050	150	14	26	80 1/2	5	FLANGE	398	444	3 Weeks
PSAVR-6	71302060	150	18	30	93 3/4	6	FLANGE	570	625	3 Weeks
PSAVR-8	71302080	150	24	36	122 3/4	8	FLANGE	945	1075	4 Weeks
PSAVR-10	71302100	150	30	42	149 1/4	10	FLANGE	1440	1733	4 Weeks
PSAVR-12	71302120	150	30	42	179 1/2	12	FLANGE	2100	1988	4 Weeks
PSAVR-14	71302140	150	42	54	199 1/4	14	FLANGE	2550	4138	6 Weeks
PSAVR-16	71302160	150	48	60	224 1/4	16	FLANGE	3300	5142	6 Weeks

Notes: Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Support Legs Standard on Models PSAVR-6 and Up. Lead time may vary depending on material availability.

HYDRONIC ACCESSORIES

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

FROM TABLE

AREA FACTOR		AF

TOTAL DISENGAGING AREA

(AF X TOTAL FLOW)/1000		SQ.FT.

SELECTION

MODEL	DISENG. AREA
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

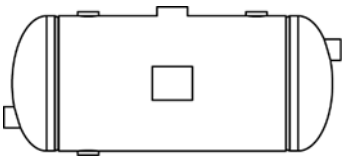
MODEL:

AREA FACTOR CHART (AF)

INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG) 0	2	5	10	15	20	30	40	60	80	100
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								

HYDRONIC ACCESSORIES

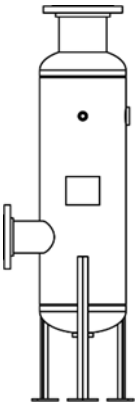
FTA STEAM CONDENSATE FLASH TANKS - HORIZONTAL ASME



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Weight (lbs)	Lead Time
FTA-13	17010039	150	13	10	10	39	79	3 Weeks
FTA-18	17012039	150	18	12	12	39	94	3 Weeks
FTA-24	17014039	150	24	14	14	39	108	3 Weeks
FTA-30	17016010	150	30	16	16	38	121	3 Weeks
FTA-48	17018010	150	48	18	18	48	168	3 Weeks
FTA-80	17024010	150	80	24	24	46	214	3 Weeks
FTA-125	17030010	150	125	30	30	48	285	3 Weeks
FTA-180	17036010	150	180	36	36	48	339	3 Weeks

Notes: 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. Lead time may vary depending on material availability.

FTA STEAM CONDENSATE FLASH TANKS - VERTICAL ASME

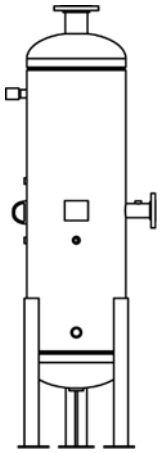


Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Connection Type (NPT/FLG)	Steam Vent	Water Inlet	Weight (lbs)	Lead Time
FTA-6V	17010006	150	4	10	6	51	FLANGE	2 1/2	2	82	3 Weeks
FTA-8V	17010008	150	7	12	8	52	FLANGE	4	3	64	3 Weeks
FTA-12V	17010012	150	17	16	12	55 1/2	FLANGE	6	4	104	3 Weeks
FTA-16V	17010016	150	37	20	16	63 1/2	FLANGE	6	6	170	3 Weeks

Notes: Materials = Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

HYDRONIC ACCESSORIES

BDT STEAM BLOWDOWN TANKS



Model	Part Number	Pressure Rating (PSI)	Product Dimensions L	W	H	Connection Type (NPT/FLG)	Boiler Design Pressure	Steam Vent	Blow-Down	Water Outlet	Water Inlet	Weight (lbs)	Lead Time
BDT-21	52010021	125	14	14	66	FLANGE	1 to 50 PSIG	2	3/4	1 1/2	3/4	411	6 Weeks
BDT-22	52010022	125	14	14	66	FLANGE	1 to 50 PSIG	2	1	1 1/2	1	411	6 Weeks
BDT-23	52010023	125	14	14	66	FLANGE	1 to 50 PSIG	2	1 1/4	2 1/2	1 1/4	411	6 Weeks
BDT-24	52010024	125	14	14	66	FLANGE	1 to 50 PSIG	2 1/2	1 1/2	2 1/2	1 1/2	411	6 Weeks
BDT-25	52010025	125	18	18	72	FLANGE	1 to 50 PSIG	3	2	4	2	583	6 Weeks
BDT-26	52010026	125	20	20	72	FLANGE	1 to 50 PSIG	4	2 1/2	4	2	635	6 Weeks
BDT-51	52010051	125	14	14	66	FLANGE	51 to 100 PSIG	2	3/4	1 1/2	1	411	6 Weeks
BDT-52	52010052	125	14	14	66	FLANGE	51 to 100 PSIG	2 1/2	1	2	1 1/4	411	6 Weeks
BDT-53	52010053	125	18	18	72	FLANGE	51 to 100 PSIG	3	1 1/4	3	1 1/2	583	6 Weeks
BDT-54	52010054	125	18	18	72	FLANGE	51 to 100 PSIG	4	1 1/2	4	2	583	6 Weeks
BDT-55	52010055	125	24	24	72	FLANGE	51 to 100 PSIG	5	2	4	2 1/2	775	6 Weeks
BDT-56	52010056	125	30	30	78	FLANGE	51 to 100 PSIG	6	2 1/2	5	2 1/2	1007	6 Weeks
BDT-101	52010101	125	14	14	66	FLANGE	101 to 150 PSIG	2 1/2	3/4	2	1	411	6 Weeks
BDT-102	52010102	125	14	14	66	FLANGE	101 to 150 PSIG	3	1	3	1 1/4	411	6 Weeks
BDT-103	52010103	125	20	20	72	FLANGE	101 to 150 PSIG	4	1 1/4	3	1 1/2	635	6 Weeks
BDT-104	52010104	125	24	24	72	FLANGE	101 to 150 PSIG	5	1 1/2	4	2	775	6 Weeks
BDT-151	52010151	125	14	14	66	FLANGE	151 to 200 PSIG	3	3/4	2	1	411	6 Weeks
BDT-152	52010152	125	18	18	72	FLANGE	151 to 200 PSIG	4	1	2 1/2	1 1/4	583	6 Weeks
BDT-153	52010153	125	24	24	72	FLANGE	151 to 200 PSIG	5	1 1/4	3	2	775	6 Weeks
BDT-154	52010154	125	30	30	78	FLANGE	151 to 200 PSIG	6	1 1/2	4	2	1007	6 Weeks
BDT-156	52010156	125	48	48	78	FLANGE	151 to 200 PSIG	8	2 1/2	5	3	1685	6 Weeks
BDT-201	52010201	125	18	18	72	FLANGE	201 to 300 PSIG	4	1 1/4	2	1 1/4	583	6 Weeks
BDT-202	52010202	125	24	24	72	FLANGE	201 to 300 PSIG	5	1 1/2	2 1/2	1 1/2	775	6 Weeks
BDT-203	52010203	125	30	30	78	FLANGE	201 to 300 PSIG	6	2	4	2	1007	6 Weeks
BDT-204	52010204	125	36	36	78	FLANGE	201 to 300 PSIG	6	2 1/2	4	2 1/2	1148	6 Weeks
BDT-205	52010205	125	48	48	78	FLANGE	201 to 300 PSIG	8	3	5	3	1685	6 Weeks
BDT-206	52010206	125	54	54	84	FLANGE	201 to 300 PSIG	10	3	6	3	1955	6 Weeks
BDT-301	52010301	125	20	20	72	FLANGE	301 to 400 PSIG	4	1 1/4	2 1/2	1 1/4	635	6 Weeks
BDT-302	52010302	125	24	24	72	FLANGE	301 to 400 PSIG	5	1 1/2	3	1 1/2	775	6 Weeks
BDT-304	52010304	125	42	42	78	FLANGE	301 to 400 PSIG	8	2 1/2	4	2 1/2	1486	6 Weeks
BDT-305	52010305	125	54	54	84	FLANGE	301 to 400 PSIG	10	3	5	3	1955	6 Weeks
BDT-306	52010306	125	66	66	84	FLANGE	301 to 400 PSIG	10	4	6	4	2417	6 Weeks
BDT-401	52010401	125	20	20	72	FLANGE	401 to 500 PSIG	4	1 1/4	2 1/2	1 1/4	635	6 Weeks
BDT-404	52010404	125	48	48	78	FLANGE	401 to 500 PSIG	8	2 1/2	4	2 1/2	1685	6 Weeks
BDT-405	52010405	125	60	60	84	FLANGE	401 to 500 PSIG	10	3	5	3	2233	6 Weeks
BDT-406	52010406	125	72	72	84	FLANGE	401 to 500 PSIG	12	4	8	4	2715	6 Weeks
BDT-501	52010501	125	24	24	72	FLANGE	501 to 600 PSIG	5	1 1/4	2 1/2	1 1/4	775	6 Weeks
BDT-502	52010502	125	30	30	78	FLANGE	501 to 600 PSIG	6	1 1/2	3	1 1/2	1007	6 Weeks
BDT-503	52010503	125	42	42	78	FLANGE	501 to 600 PSIG	8	2 1/2	4	2 1/2	1486	6 Weeks
BDT-504	52010504	125	54	54	84	FLANGE	501 to 600 PSIG	10	2 1/2	5	2 1/2	1955	6 Weeks
BDT-505	52010505	125	66	66	84	FLANGE	501 to 600 PSIG	12	3	6	3	2417	6 Weeks
BDT-506	52010506	125	72	72	84	FLANGE	501 to 600 PSIG	12	4	8	4	2715	6 Weeks
BDT-602	52010602	125	36	36	78	FLANGE	601 to 800 PSIG	6	1 1/4	3	1 1/2	1148	6 Weeks
BDT-603	52010603	125	48	48	78	FLANGE	601 to 800 PSIG	8	2	4	2	1685	6 Weeks
BDT-604	52010604	125	60	60	84	FLANGE	601 to 800 PSIG	10	2 1/2	5	2 1/2	2233	6 Weeks
BDT-605	52010605	125	72	72	84	FLANGE	601 to 800 PSIG	12	3	6	3	2715	6 Weeks
BDT-606	52010606	125	72	72	84	FLANGE	601 to 800 PSIG	12	4	8	4	2715	6 Weeks

HYDRONIC ACCESSORIES

CFA CENTRIFUGAL SOLIDS SEPARATOR — ASME

CARBON STEEL – LOW FLOW DESIGN – 150 PSI

Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
CFA-50	69001050	150	6	6	19	1/2	NPT	11	4 Weeks
CFA-75	69001075	150	6	6	19	3/4	NPT	14	4 Weeks
CFA-100	69001100	150	6	6	29	1	NPT	21	4 Weeks
CFA-125	69001125	150	6	6	29	1 1/4	NPT	21	4 Weeks
CFA-150	69001150	150	6	6	29	1 1/2	NPT	22	4 Weeks
CFA-200	69001200	150	8 5/8	8 5/8	32	2	NPT	41	4 Weeks
CFA-250	69001250	150	8 5/8	8 5/8	35 1/2	2 1/2	NPT	45	4 Weeks
CFA-300	69001300	150	10 3/4	10 3/4	39	3	NPT	78	4 Weeks

Notes: Materials = Carbon Steel Shell, Carbon Steel System Connection Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

CPFTA CHEMICAL POT FEEDER TANKS — ASME

CHEMICAL FEED TANKS - ASME

Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Funnel Size	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
CPFTA-2	78880022	125	6	6	19 3/4	3/4	NPT	6	30	2 Weeks
CPFTA-5	78880055	125	10 1/2	10 1/2	19 3/4	3/4	NPT	10	49	2 Weeks

Notes: Materials = Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer. Lead time may vary depending on material availability.

HYDRONIC ACCESSORIES

CFS CENTRIFUGAL SOLIDS SEPARATOR — NON-ASME

CARBON STEEL – LOW FLOW DESIGN – 150 PSI

Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
CFS-50	69000050	150	6	6	19	1/2	NPT	11	4 Weeks
CFS-75	69000075	150	6	6	19	3/4	NPT	14	4 Weeks
CFS-100	69000100	150	6	6	29	1	NPT	21	4 Weeks
CFS-125	69000125	150	6	6	29	1 1/4	NPT	21	4 Weeks
CFS-150	69000150	150	6	6	29	1 1/2	NPT	22	4 Weeks
CFS-200	69000200	150	8 5/8	8 5/8	32	2	NPT	41	4 Weeks
CFS-250	69000250	150	8 5/8	8 5/8	35 1/2	2 1/2	NPT	45	4 Weeks
CFS-300	69000300	150	10 3/4	10 3/4	39	3	NPT	78	4 Weeks

Notes: Materials = Carbon Steel Shell, Carbon Steel System Connection Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

CPFT CHEMICAL POT FEEDER TANKS — NON-ASME

CHEMICAL FEED TANKS

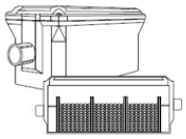
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Funnel Size	Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type			
CPFT-2	78880002	150	8	8	19 3/4	3/4	NPT	8	30	2 Weeks
CPFT-5	78880005	150	12	12	19 3/4	3/4	NPT	12	37	2 Weeks

Notes: Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer. Lead time may vary depending on material availability.

HYDRONIC ACCESSORIES

WCN-1 CONDENSATE NEUTRALIZERS — NON-ASME

WCN-1 CONDENSATE NEUTRALIZER

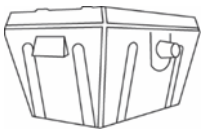


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
WCN-1	33030000	Condensate Neutralizer	12	4 3/4	5 1/2	1/2	NPT	4	1 Week
MEDIA BAG	33030100	Neutralizer Media Bag	4	4	5			1.4	1 Week
FLEX HOSE	33030200	Flexible Hose	3	8	12	5/8		0.5	1 Week
WALL BRKT	33030300	Wall Bracket	12	12	6			0.1	1 Week

Notes: 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). Lead time may vary depending on material availability.

WCN-2 CONDENSATE NEUTRALIZERS — NON-ASME

WCN-2 CONDENSATE NEUTRALIZER



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
WCN-2	33030101	Condensate Neutralizer	16 1/4	10 1/2	7 1/2	1	NPT	17	1 Week
WCN-2 MEDIA	33032100	Neutralizer Media	6	6	10			10	1 Week

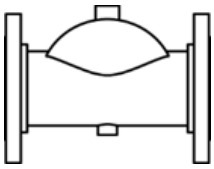
Notes: WCN-2 includes MEDIA for up to 3,5 million BTU/hr. The WCN-2 can be connected to two (2) additional WCN-2 units for up to 10.5 million BTU/hr. Lead time may vary depending on material availability.

SEVERE SERVICE PRODUCTS

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

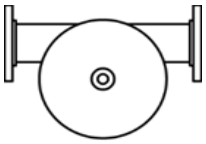


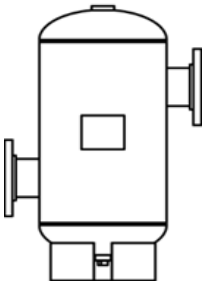
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Max GPM	Tappings (in)		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		Top	Bottom		
SS-AP-104	37630040	150	12	8	9	4	FLANGE	300	3/4	1/2	35	4 Weeks
SS-AP-105	37630050	150	20	10	12	5	FLANGE	530	1 1/4	1 1/2	56	4 Weeks
SS-AP-106	37630060	150	24	12	14	6	FLANGE	850	1 1/4	1 1/2	77	4 Weeks
SS-AP-108	37630080	150	32	16	19	8	FLANGE	1900	1 1/4	1 1/2	135	6 Weeks
SS-AP-110	37630100	150	40	20	24	10	FLANGE	3200	1 1/4	1 1/2	213	6 Weeks
SS-AP-112	37630120	150	48	24	28	12	FLANGE	4800	1 1/4	1 1/2	315	6 Weeks
SS-AP-114	37630140	150	56	28	33	14	FLANGE	6100	1 1/4	1 1/2	430	6 Weeks
SS-AP-116	37630160	150	64	32	37	16	FLANGE	8000	1 1/4	1 1/2	553	6 Weeks
SS-AP-118	37630180	150	72	36	41	18	FLANGE	9700	1 1/4	1 1/2	662	6 Weeks

Notes: Materials = Fabricated Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior Conforms to ASME requirements. Lead time may vary depending on material availability.

SS-SPA TANGENTIAL AIR SEPARATORS — ASME

304 STAINLESS STEEL SEPARATOR LESS STRAINER



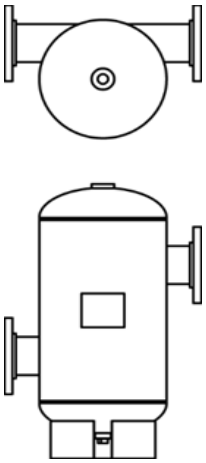


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-SPA-2	72050020	125	12	16 5/8	22 1/2	2	NPT	73	4 Weeks
SS-SPA-2.5	72050025	125	12	16 5/8	22 1/2	2 1/2	NPT	75	4 Weeks
SS-SPA-3	72050030	125	12	19 3/4	25	3	FLANGE	95	4 Weeks
SS-SPA-4	72050040	125	14	21 3/4	32	4	FLANGE	122	4 Weeks
SS-SPA-5	72050050	125	14	21 3/4	32	5	FLANGE	138	4 Weeks
SS-SPA-6	72050060	125	20	28	44	6	FLANGE	222	4 Weeks
SS-SPA-8	72050080	125	20	28	44	8	FLANGE	259	6 Weeks
SS-SPA-10	72050100	125	30	41	60 1/2	10	FLANGE	556	6 Weeks
SS-SPA-12	72050120	125	30	41	60 1/2	12	FLANGE	627	6 Weeks
SS-SPA-14	72050140	125	36	46 3/8	78	14	FLANGE	882	8 Weeks
SS-SPA-16	72050160	125	48	60	108	16	FLANGE	1906	8 Weeks
SS-SPA-18	72050180	125	54	66	124	18	FLANGE	2555	8 Weeks
SS-SPA-20	72050200	125	60	72	138	20	FLANGE	2633	8 Weeks
SS-SPA-22	72050220	125	66	78	150	22	FLANGE	3831	8 Weeks
SS-SPA-24	72050240	125	66	78	150	24	FLANGE	4130	8 Weeks

Notes: Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

SS-SPA TANGENTIAL AIR SEPARATORS — ASME

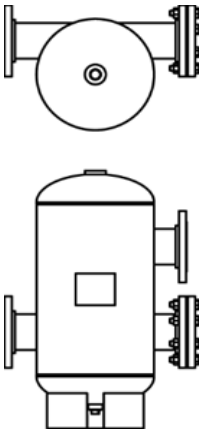
316L STAINLESS STEEL SEPARATOR LESS STRAINER



Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-SPA-2	72050021	125	12	16 5/8	22 1/2	2	NPT	73	4 Weeks
SS-SPA-2.5	72050026	125	12	16 5/8	22 1/2	2 1/2	NPT	75	4 Weeks
SS-SPA-3	72050031	125	12	19 3/4	25	3	FLANGE	95	4 Weeks
SS-SPA-4	72050041	125	14	21 3/4	32	4	FLANGE	122	4 Weeks
SS-SPA-5	72050051	125	14	21 3/4	32	5	FLANGE	138	4 Weeks
SS-SPA-6	72050061	125	20	28	44	6	FLANGE	222	4 Weeks
SS-SPA-8	72050081	125	20	28	44	8	FLANGE	259	6 Weeks
SS-SPA-10	72050101	125	30	41	60 1/2	10	FLANGE	556	6 Weeks
SS-SPA-12	72050121	125	30	41	60 1/2	12	FLANGE	627	6 Weeks
SS-SPA-14	72050141	125	36	46 3/8	78	14	FLANGE	882	8 Weeks
SS-SPA-16	72050161	125	48	60	108	16	FLANGE	1906	8 Weeks
SS-SPA-18	72050181	125	54	66	124	18	FLANGE	2555	8 Weeks
SS-SPA-20	72050201	125	60	72	138	20	FLANGE	2633	8 Weeks
SS-SPA-22	72050221	125	66	78	150	22	FLANGE	3831	8 Weeks
SS-SPA-24	72050241	125	66	78	150	24	FLANGE	4130	8 Weeks

Notes: Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

304 STAINLESS STEEL SEPARATOR WITH STRAINER

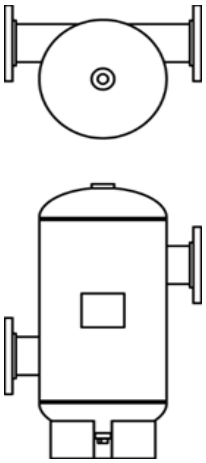


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-SPA-2S	72060020	125	12	16 5/8	22 1/2	2	NPT	72	4 Weeks
SS-SPA-2.5S	72060025	125	12	16 5/8	22 1/2	2 1/2	NPT	100	4 Weeks
SS-SPA-3S	72060030	125	12	19 3/4	25	3	FLANGE	108	4 Weeks
SS-SPA-4S	72060040	125	14	21 3/4	32	4	FLANGE	159	4 Weeks
SS-SPA-5S	72060050	125	14	21 3/4	32	5	FLANGE	180	4 Weeks
SS-SPA-6S	72060060	125	20	28	44	6	FLANGE	298	4 Weeks
SS-SPA-8S	72060080	125	20	28	44	8	FLANGE	372	6 Weeks
SS-SPA-10S	72060100	125	30	41	60 1/2	10	FLANGE	840	6 Weeks
SS-SPA-12S	72060120	125	30	41	60 1/2	12	FLANGE	868	6 Weeks
SS-SPA-14S	72060140	125	36	46 3/8	78	14	FLANGE	1160	8 Weeks
SS-SPA-16S	72060160	125	48	60	108	16	FLANGE	2308	8 Weeks
SS-SPA-18S	72060180	125	54	66	124	18	FLANGE	3039	8 Weeks
SS-SPA-20S	72060200	125	60	72	138	20	FLANGE	3980	8 Weeks
SS-SPA-22S	72060220	125	66	78	150	22	FLANGE	4261	8 Weeks
SS-SPA-24S	72060240	125	66	78	150	24	FLANGE	4932	8 Weeks

Notes: Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

SS-SPA-S TANGENTIAL AIR SEPARATORS

316L STAINLESS STEEL SEPARATOR WITH STRAINER

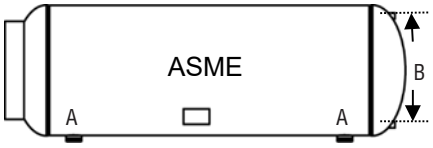


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-SPA-2S	72060021	125	12	16 5/8	22 1/2	2	NPT	72	4 Weeks
SS-SPA-2.5S	72060026	125	12	16 5/8	22 1/2	2 1/2	NPT	100	4 Weeks
SS-SPA-3S	72060031	125	12	19 3/4	25	3	FLANGE	108	4 Weeks
SS-SPA-4S	72060041	125	14	21 3/4	32	4	FLANGE	159	4 Weeks
SS-SPA-5S	72060051	125	14	21 3/4	32	5	FLANGE	180	4 Weeks
SS-SPA-6S	72060061	125	20	28	44	6	FLANGE	298	4 Weeks
SS-SPA-8S	72060081	125	20	28	44	8	FLANGE	372	6 Weeks
SS-SPA-10S	72060101	125	30	41	60 1/2	10	FLANGE	840	6 Weeks
SS-SPA-12S	72060121	125	30	41	60 1/2	12	FLANGE	868	6 Weeks
SS-SPA-14S	72060141	125	36	46 3/8	78	14	FLANGE	1160	8 Weeks
SS-SPA-16S	72060161	125	48	60	108	16	FLANGE	2308	8 Weeks
SS-SPA-18S	72060181	125	54	66	124	18	FLANGE	3039	8 Weeks
SS-SPA-20S	72060201	125	60	72	138	20	FLANGE	3980	8 Weeks
SS-SPA-22S	72060221	125	66	78	150	22	FLANGE	4261	8 Weeks
SS-SPA-24S	72060241	125	66	78	150	24	FLANGE	4932	8 Weeks

Notes: Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

SEVERE SERVICE PRODUCTS

SSNA COMPRESSION TANKS — ASME



STAINLESS PLAIN STEEL

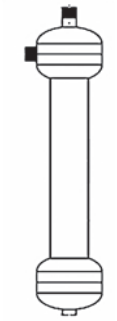
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Distance B	System Connection Size (in)	Type	Weight (lbs)	Lead Time
SS-12NA33	28012033	125	15	33	12	12	8	1	NPT	86	4 Weeks
SS-12NA51	28012051	125	24	51	12	12	8	1	NPT	108	4 Weeks
SS-14NA48	28014048	125	30	48	14	14	10	1	NPT	121	4 Weeks
SS-14NA63	28014063	125	40	63	14	14	10	1	NPT	166	4 Weeks
SS-16NA72	28016072	125	60	72	16	16	12	1	NPT	214	4 Weeks
SS-20NA62	28020062	125	80	62 1/2	20	20	16	1	NPT	228	4 Weeks
SS-20NA78	28020078	125	100	78	20	20	16	1	NPT	283	4 Weeks
SS-24NA65	28024065	125	120	65	24	24	20	1	NPT	290	4 Weeks
SS-24NA72	28024072	125	135	72	24	24	20	1	NPT	318	4 Weeks
SS-30NA62	28030062	125	175	62 1/2	30	30	22	1 1/2	NPT	362	6 Weeks
SS-30NA77	28030077	125	220	77	30	30	22	1 1/2	NPT	438	6 Weeks
SS-30NA84	28030084	125	240	84	30	30	22	1 1/2	NPT	474	6 Weeks
SS-36NA72	28036072	125	305	105 3/4	30	30	22	1 1/2	NPT	624	6 Weeks
SS-36NA93	28036093	125	400	72	36	36	28	1 1/2	NPT	770	6 Weeks

Notes: Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior. Lead time may vary depending on material availability.

SEVERE SERVICE PRODUCTS

SS-CFS CENTRIFUGAL SOLIDS SEPARATOR — NON-ASME

STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN

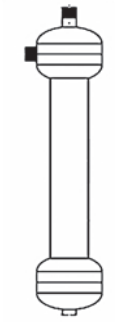


Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-CFS-50	69010050	150	6	6	19	1/2	NPT	11	4 Weeks
SS-CFS-75	69010075	150	6	6	19	3/4	NPT	14	4 Weeks
SS-CFS-100	69010100	150	6	6	29	1	NPT	21	4 Weeks
SS-CFS-125	69010125	150	6	6	29	1 1/4	NPT	21	4 Weeks
SS-CFS-150	69010150	150	6	6	29	1 1/2	NPT	22	4 Weeks
SS-CFS-200	69010200	150	8 5/8	8 5/8	32	2	NPT	41	4 Weeks
SS-CFS-250	69010250	150	8 5/8	8 5/8	35 1/2	2 1/2	NPT	45	4 Weeks
SS-CFS-300	69010300	150	10 3/4	10 3/4	39	3	NPT	78	4 Weeks

Notes: Materials = Stainless Steel Shell, Stainless Steel System Connection Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

SS-CFA CENTRIFUGAL SOLIDS SEPARATOR — ASME

STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN



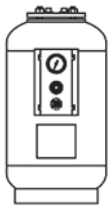
Model	Part Number	Pressure Rating (PSI)	Product Dimensions			System Connection		Weight (lbs)	Lead Time
			L	W	H	Size (in)	Type		
SS-CFA-50	69011050	150	6	6	19	1/2	NPT	11	4 Weeks
SS-CFA-75	69011075	150	6	6	19	3/4	NPT	14	4 Weeks
SS-CFA-100	69011100	150	6	6	29	1	NPT	21	4 Weeks
SS-CFA-125	69011125	150	6	6	29	1 1/4	NPT	21	4 Weeks
SS-CFA-150	69011150	150	6	6	29	1 1/2	NPT	22	4 Weeks
SS-CFA-200	69011200	150	8 5/8	8 5/8	32	2	NPT	41	4 Weeks
SS-CFA-250	69011250	150	8 5/8	8 5/8	35 1/2	2 1/2	NPT	45	4 Weeks
SS-CFA-300	69011300	150	10 3/4	10 3/4	39	3	NPT	78	4 Weeks

Notes: Materials = Stainless Steel Shell, Stainless Steel System Connection Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

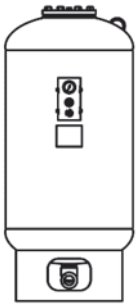
SEVERE SERVICE PRODUCTS

SS-FXA REMOVABLE BLADDER TANKS ASME

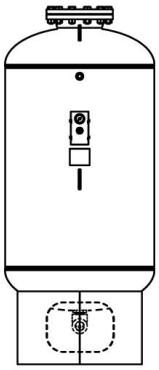
STAINLESS STEEL



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
SS-FXA-35	26010035	125	10	12	12	23 1/2	3/4	NPT	63	4 Weeks
SS-FXA-50	26010050	125	13	14	14	24	3/4	NPT	76	4 Weeks



SS-FXA-85	26010085	125	23	16	16	37	1	NPT	141	4 Weeks
SS-FXA-130	26010130	125	35	20	20	37	1	NPT	151	4 Weeks
SS-FXA-200	26010200	125	53	24	24	43	1 1/2	NPT	243	4 Weeks
SS-FXA-300	26010300	125	79	24	24	55	1 1/2	NPT	279	4 Weeks
SS-FXA-400	26010400	125	106	30	30	49	1 1/2	NPT	333	4 Weeks
SS-FXA-500	26010500	125	132	30	30	57	2	NPT	398	4 Weeks
SS-FXA-600	26010600	125	158	30	30	65	2	NPT	440	4 Weeks
SS-FXA-700	26010700	125	185	30	30	80	1 1/2	NPT	600	4 Weeks
SS-FXA-800L	26010805	125	211	32	32	76	2	NPT	404	4 Weeks



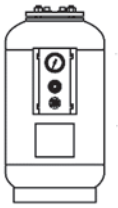
SS-FXA-1000	26011000	125	264	36	36	87	3	NPT	735	6 Weeks
SS-FXA-1200	26011200	125	317	36	36	98 1/2	3	NPT	745	6 Weeks
SS-FXA-1400	26011400	125	370	36	36	110 1/2	3	NPT	900	6 Weeks
SS-FXA-1600	26011600	125	422	48	48	84	3	NPT	1210	6 Weeks
SS-FXA-2000	26012000	125	528	48	48	96	3	NPT	1305	6 Weeks
SS-FXA-2500	26012500	125	660	48	48	110	4	NPT	1430	6 Weeks
SS-FXA-3000L	26013000	125	792	48	48	133	4	NPT	1575	6 Weeks
SS-FXA-4000	26014000	125	1056	60	60	115	4	NPT	2638	6 Weeks
SS-FXA-5000	26015000	125	1320	60	60	138	4	NPT	3246	6 Weeks

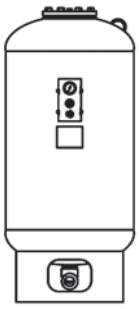
Notes: Materials = 304 Stainless Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Bead blast Exterior; Factory Pre-charge = 40 PSIG ; Also available in 316L Stainless Steel. Lead time may vary depending on material availability.

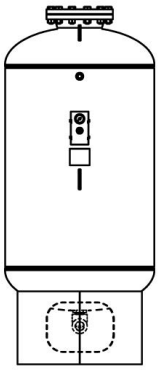
SEVERE SERVICE PRODUCTS

EP-FXA REMOVABLE BLADDER TANKS — ASME

EPOXY REMOVABLE BLADDER







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
EP-FXA-35	27010035	125	10	10	12	12	25	3/4	40	4 Weeks
EP-FXA-50	27010050	125	13	13	14	14	25	3/4	50	4 Weeks
EP-FXA-85	27010085	125	23	23	16	16	37	1	90	4 Weeks
EP-FXA-130	27010130	125	35	35	20	20	37	1	125	4 Weeks
EP-FXA-200	27010200	125	53	53	24	24	43	1 1/2	210	4 Weeks
EP-FXA-300	27010300	125	79	79	24	24	55	1 1/2	225	4 Weeks
EP-FXA-400	27010400	125	106	106	30	30	49	1 1/2	300	4 Weeks
EP-FXA-500	27010500	125	132	132	30	30	57	2	330	4 Weeks
EP-FXA-600	27010600	125	158	158	30	30	65	2	360	4 Weeks
EP-FXA-700	27010700	125	185	185	30	30	80	1 1/2	401	4 Weeks
EP-FXA-800L	27010805	125	211	211	32	32	76	2	475	4 Weeks
EP-FXA-1000	27011000	125	264	264	36	36	87	3	735	6 Weeks
EP-FXA-1200	27011200	125	317	317	36	36	98 1/2	3	745	6 Weeks
EP-FXA-1400	27011400	125	370	370	36	36	110 1/2	3	900	6 Weeks
EP-FXA-1600	27011600	125	422	422	48	48	84	3	1210	6 Weeks
EP-FXA-2000	27012000	125	528	528	48	48	96	3	1305	6 Weeks
EP-FXA-2500	27012500	125	660	660	48	48	110	4	1430	6 Weeks
EP-FXA-3000L	27013000	125	792	792	48	48	133	4	1575	6 Weeks
EP-FXA-4000	27014000	125	1056	1056	60	60	115	4	2638	6 Weeks
EP-FXA-5000	27015000	125	1320	1320	60	60	138	4	3246	6 Weeks

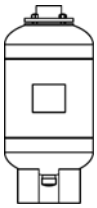
Notes: Materials = Carbon Steel Shell, Heavy Duty Butyl Bladder, Products comply with NSF/ANSI Standard 61; Maximum Pressure = 125 PSIG; Maximum Temperature = 180°F; Finish = Epoxy Lined Exterior; Factory Pre-charge = 40 PSIG. Lead time may vary depending on material availability.

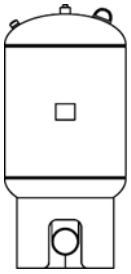
SHOCK & SURGE TANKS

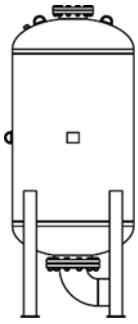
Shock & Surge Tanks are specially designed hydro-pneumatic tanks used to absorb the harmful water hammer pressure wave in a piping system. When properly sized, these tanks are designed to capture the kinetic energy wave of a quick-closing valve (or other offending fixture) and limit the pressure spike 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 Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
SSA-35	26050035	250	10	10	12	12	26	2 1/2	NPT	63	5 Weeks
SSA-50	26050050	250	13	13	14	14	26	2 1/2	NPT	74	5 Weeks
SSA-85	26050085	250	23	23	16	16	30 1/2	3G	NPT	116	5 Weeks
SSA-130	26050130	250	35	35	20	20	30 1/2	3G	NPT	135	5 Weeks
SSA-200	26050200	250	53	53	24	24	46 1/2	4G	GROOVED	250	5 Weeks
SSA-300	26050300	250	79	79	24	24	58 1/2	4G	GROOVED	360	5 Weeks
SSA-400	26050400	250	106	106	30	30	52 1/2	4G	GROOVED	430	5 Weeks
SSA-500	26050500	250	132	132	30	30	63	6G	GROOVED	525	5 Weeks
SSA-600	26050600	250	158	158	30	30	71	6G	GROOVED	640	5 Weeks
SSA-700T	26050700	250	185	185	30	30	81 1/2	6G	GROOVED	749	5 Weeks
SSA-800	26050800	250	211	211	32	32	84	6G	GROOVED	760	5 Weeks
SSA-1000	26051000	250	264	264	36	36	85	10F	FLANGE	830	5 Weeks
SSA-1200	26051200	250	317	317	36	36	107	10F	FLANGE	1118	5 Weeks
SSA-1400	26051400	250	370	370	36	36	119	10F	FLANGE	1330	5 Weeks
SSA-1600	26051600	250	422	422	48	48	92	10F	FLANGE	1713	5 Weeks
SSA-2000	26052000	250	528	528	48	48	105	10F	FLANGE	2026	5 Weeks
SSA-2500	26052500	250	660	660	48	48	122	10F	FLANGE	2352	5 Weeks

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 250 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG. Lead time may vary depending on material availability.

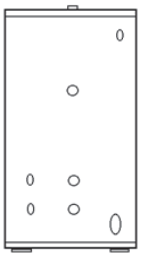
G = Grooved Pipe Connection

F = Flanged Connection

STORAGE TANKS: GLASS LINED

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

GA JACKETED AND INSULATED TANKS — ASME & NON-ASME



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Weight (lbs)	Lead Time
GN-120VJ	34024069	150	120	28	28	62 1/2	415	6 Weeks
GA-120VJ	34028062	150	120	28	28	62 1/2	430	6 Weeks
GA-200VJC	34029077	150	200	32	32	77 1/4	700	6 Weeks
GA-250VJ	34020078	125	250	34	34	91	909	6 Weeks
GA-350VJ	34036087	125	350	40	40	80	987	6 Weeks
GA-400VJ	34036098	125	400	46	46	80	1212	6 Weeks
GA-500VJ	34044088	125	500	46	46	92	1329	6 Weeks
GA-650VJ	34048092	125	650	52	52	92	1611	6 Weeks
GA-750VJ	34048106	125	750	52	52	104	2030	6 Weeks
GA-1000VJ	34049138	125	1000	52	52	128	2710	6 Weeks

Notes: Materials = Glass-lined steel vessel; Maximum Temperature = 180ºF; Finish = Urethane Paint Exterior; Furnished with Magnesium Anode Rods. Horizontal Models available – Consult Factory. Lead time may vary . Lead time may vary depending on material availability.

GA NON-JACKETED TANKS — ASME

Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Weight (lbs)	Lead Time
GA-200V	34028077	150	200	28	28	76	488	6 Weeks
GA-200M	34032077	125	200	30	30	76	548	6 Weeks
GA-350M	34036086	125	350	36	36	87	770	6 Weeks
GA-400M	34036097	125	400	36	36	100	866	6 Weeks
GA-500M	34042088	125	500	42	42	88	908	6 Weeks
GA-750M	34048105	125	750	48	48	100	1507	6 Weeks
GA-1000M	34048138	125	1000	48	48	148	2150	6 Weeks
GA-1250M	44054129	125	1250	54	54	124	2083	6 Weeks
GA-1500M	34054153	125	1500	54	54	148	2451	6 Weeks

Notes: Materials = Glass-lined steel vessel; Maximum Temperature = 180ºF; 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. Lead time may vary depending on material availability.

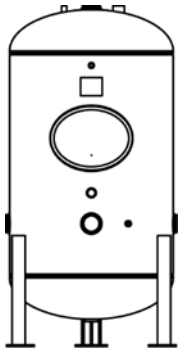
Code	Description
A	ASME
C	Compact
G	Glass Lined
J	Jacketed & Insulated
M	Horizontal or Vertical Mounting
N	Non-ASME
V	Vertical Mounting

SADDLES		
DIAMETER	Wt. Per Pair	
30"	50 lbs.	
36"	56 lbs.	
42"	93 lbs.	
48"	115 lbs.	
54"	148 lbs.	

STORAGE TANKS: EPOXY LINED

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

EA NON-JACKTED TANKS — ASME



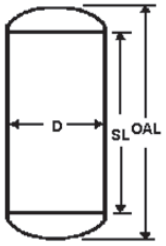
Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Product Dimensions L	W	H	Weight (lbs)	Lead Time
EA-140	35000140	150	140	24	24	81	350	4 Weeks
EA-190	35000190	150	190	30	30	72	460	4 Weeks
EA-225	35000225	150	225	30	30	84	510	4 Weeks
EA-268	35000268	150	268	36	36	74	810	4 Weeks
EA-320	35000320	150	320	36	36	86	890	4 Weeks
EA-388	35000388	150	388	36	36	99	900	4 Weeks
EA-375	35000375	150	375	42	42	76 3/4	980	4 Weeks
EA-450	35000450	150	450	42	42	89 3/4	1110	4 Weeks
EA-535	35000535	150	535	42	42	102	1225	4 Weeks

Notes: Materials = Products comply with NSF/ANSI Standard 61 Epoxy-Lined steel vessel; Maximum Temperature = 180oF; Finish = Primer Paint Exterior. Lead time may vary depending on material availability.

STORAGE TANKS: CUSTOM

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” overhead dimensions. 125 psi rated tanks.

PLAIN STORAGE TANK WITH STANDARD FITTINGS



Dia (in.)	OAL (in.)	Shell Length	Cap. (gal.)	Black Wt.	Black	Glass	Epoxy	Cement	Ins. Jacket
16	48	39	40	87					
	60	61	50	102					
20	48	37	65	131					
	60	49	80	160					
	72	61	100	189					
24	48	35	95	157					
	60	47	115	190					
	72	59	140	222					
	84	71	165	290					
	96	83	185	356					

Continued on page 81

STORAGE TANKS: CUSTOM

Continued

Dia (in.)	OAL (in.)	Shell Length	Cap. (gal.)	Black Wt.	Black	Glass	Epoxy	Cement	Ins. Jacket
	48	31	145	230					
	60	43	180	276					
30	72	55	220	323					
	84	67	250	370					
	96	79	290	418					
	120	103	365	511					
	60	40	265	411					
	72	52	315	479					
36	84	64	370	547					
	96	76	400	615					
	120	100	525	752					
	72	49	430	712					
	84	61	500	804					
	96	73	575	895					
42	120	97	720	1077					
	144	121	860	1259					
	168	145	1000	1441					
	192	169	1150	1624					
	84	57	650	1118					
	96	69	750	1236					
48	120	93	940	1470					
	144	117	1125	1705					
	168	141	1315	1938					
	192	165	1500	2174					
	96	65	950	1782					
	120	89	1190	2110					
54	144	113	1425	2440					
	168	137	1665	2765					
	192	161	1900	3092					
	216	185	2140	3420					
	120	86	1465	3045					
	144	110	1760	3443					
60	168	134	2055	3841					
	192	158	2350	4239					
	216	182	2640	4637					
	120	84	2115	4523					
	144	108	2560	5096					
72	168	132	2960	5669					
	192	156	3385	6242					
	216	180	3800	6815					

STORAGE TANKS: CUSTOM

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				
2				
2 1/2				
3				
4				
5				
6				
8				
10				
12				
14				

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 hand hole is available as optional feature

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

HANDHOLES & MANHOLES	
Size (in.)	
4 x 6 Handhole 6 x 8 Handhole	
11 x 15 Manhole 12 x 16 Manhole	
14 x 18 Manhole	

OTHER FITTINGS:

Hold Down Clips – 16" to 36" Dia -
– 42" to 60" Dia -
– 72" Dia -

Lift Lug –

BASE OPTIONS: SADDLE

Tank Dia. (in.)	Weight Per Pair (lbs.)
10	10
12	12
14	15
16	21
20	29
24	35
30	49
36	57
42	88
48	115
54	148
60	171
66	214
72	257

For additional clearance, saddles can be provided with threaded fittings for pipe legs (not included).

Tank Diameter
16" thru 36"
42" thru 72"

BASE RING

Tank Dia. (in.)	Wt. (lbs.)
16	11
20	20
24	23
30	31
36	52
42	78
48	139
54	145
60	275
72	480

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

ANGLE LEG

Tank Dia. (in.)	Wt. (lbs.)
16	36
20	36
24	36
30	70
36	70
42	120
48	120
54	305
60	305
72	305

LEG CLEARANCE - 12"

*Angle legs include foot pads

STORAGE TANKS: CUSTOM - ADD TUBE BUNDLE OPTION

- 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
- 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)		
TCW-TCS-412	12	2.1	29		
TCW-TCS-418	18	3.3	30		
TCW-TCS-424	24	4.5	32		
TCW-TCS-430	30	5.6	33		
TCW-TCS-436	36	6.8	35		
TCW-TCS-442	42	8	36		
TCW-TCS-448	48	9.2	38		
TCW-TCS-454	54	10.4	39		
TCW-TCS-460	60	11.5	41		
TCW-TCS-466	66	12.7	42		
TCW-TCS-472	72	13.9	44		
TCW-TCS-484	84	16.3	47		
TCW-TCS-496	96	18.6	50		

6" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs)	
TCW-TCS-612	12	3.3	51	
TCW-TCS-618	18	5.6	56	
TCW-TCS-624	24	8	61	
TCW-TCS-630	30	10.3	66	
TCW-TCS-636	36	12.7	71	
TCW-TCS-642	42	15	76	
TCW-TCS-648	48	17.4	81	
TCW-TCS-654	54	19.7	86	
TCW-TCS-660	60	22.1	91	
TCW-TCS-666	66	24.4	96	
TCW-TCS-672	72	26.8	101	
TCW-TCS-684	84	31.5	111	
TCW-TCS-696	96	36.2	121	

8" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs)		
TCW-TCS-818	18	11	97		
TCW-TCS-824	24	15	107		
TCW-TCS-830	30	19	117		
TCW-TCS-836	36	23	127		
TCW-TCS-842	42	27	137		
TCW-TCS-848	48	32	147		
TCW-TCS-854	54	36.5	157		
TCW-TCS-860	60	41	167		
TCW-TCS-866	66	45	177		
TCW-TCS-872	72	49	187		
TCW-TCS-884	84	58	207		
TCW-TCS-890	96	67	227		

10" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs)	
TCW-TCS-1024	24	27	198	
TCW-TCS-1030	30	34.5	209	
TCW-TCS-1036	36	42	220	
TCW-TCS-1042	42	49.5	231	
TCW-TCS-1048	48	56	242	
TCW-TCS-1054	54	63.5	243	
TCW-TCS-1060	60	71	264	
TCW-TCS-1066	66	78.5	275	
TCW-TCS-1072	72	86	286	
TCW-TCS-1084	84	101	308	
TCW-TCS-1096	96	116	330	

12" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs)		
TCW-TCS-1236	36	61	297		
TCW-TCS-1242	42	72	321		
TCW-TCS-1248	48	83	345		
TCW-TCS-1254	54	94	369		
TCW-TCS-1260	60	104	393		
TCW-TCS-1266	66	115	417		
TCW-TCS-1272	72	126	441		
TCW-TCS-1278	78	137	465		
TCW-TCS-1284	84	147	489		
TCW-TCS-1296	96	169	537		

COIL DATA		WATER IN TUBES		STEAM IN TUBES	
Unit Diameter (in.)	Working Pressure (psi)	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

WELL WATER & PRESSURE BOOSTER TANKS

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 WELL WATER & PRESSURE BOOSTER 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		

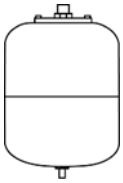
ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS
(FX, FXT, & FXA MODELS – ONLY

PUMP CUT-IN PRESSURE (PSIG) \ 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	0.000	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

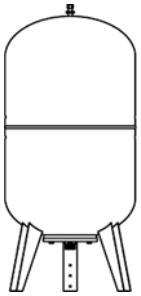
WELL WATER & PRESSURE BOOSTER TANKS

FX WELL WATER & PRESSURE BOOSTER — NON-ASME

REMOVABLE BLADDER TANK



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FX-8	30011008	150	2.1	2.1	8	8	13	3/4	NPT	7	1 Week
FX-19	30011019	150	6.3	6.3	11	11	16	3/4	NPT	13	1 Week
FX-24	30011024	150	6.3	6.3	14	14	13	3/4	NPT	15	1 Week



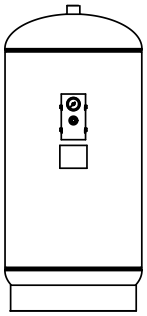
FX-60V	30011060	150	16	16	15	15	34	1	NPT	39	1 Week
FX-80V	30011080	150	21	21	18	18	34	1	NPT	49	1 Week
FX-100V	30011100	150	26	26	18	18	38	1	NPT	61	1 Week
FX-200V	30011200	150	52	52	22	22	49	1 1/2	NPT	112	1 Week
FX-300V	30011300	150	80	80	25	25	55	1 1/2	NPT	141	1 Week
FX-500V	30011500	150	132	132	31	31	61	1 1/2	NPT	265	1 Week
FX-750V	30011700	150	198	198	31	31	79	1 1/2	NPT	330	1 Week
FX-1000V	30011000	150	264	264	36	36	77	1 1/2	NPT	398	1 Week
FX-2000V	30012000	150	528	528	50	50	84	2	NPT	835	1 Week

Products Comply NSF / ANSI Standard 61

Notes: 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. Lead time may vary depending on material availability.

FXT WELL WATER & PRESSURE BOOSTER — ASME

FIXED DIAPHRAGM TANK



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FXT-400	21009999	200	8	6.3	12	12	20	3/4	NPT	34	2 Weeks
FXT-401	21010000	200	15	11.9	16	16	23	1	NPT	64	2 Weeks
FXT-402	21010005	200	25	19.8	16	16	33	1	NPT	84	2 Weeks
FXT-403	21010010	200	35	27.5	16	16	45	1	NPT	97	2 Weeks
FXT-404	21010015	200	70	55.5	24	24	46	1 1/2	NPT	259	2 Weeks
FXT-405	21010020	200	90	71	24	24	52	1 1/2	NPT	283	2 Weeks
FXT-415	21010025	200	115	91	24	24	66	1 1/2	NPT	325	3 Weeks
FXT-440	21010030	200	140	111	24	24	78	1 1/2	NPT	362	3 Weeks
FXT-460	21010032	200	160	127	30	30	61	1 1/2	NPT	591	3 Weeks
FXT-480	21010034	200	210	166	30	30	79	1 1/2	NPT	752	3 Weeks

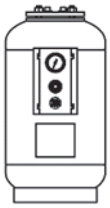
Products Comply NSF / ANSI Standard 61

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 200 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG. Lead time may vary depending on material availability: consult factory. Lead time may vary depending on material availability.

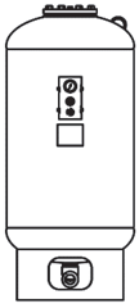
WELL WATER & PRESSURE BOOSTER TANKS

FXA HYDRO-PNEUMATIC TANKS — ASME

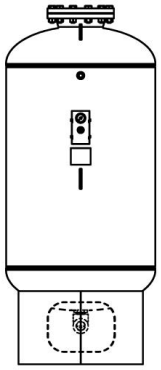
REMOVABLE BLADDER – 125 PSI



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FXA-35	21010035	125	10	10	12	12	23 1/2	3/4	NPT	40	1 Week
FXA-50	21010050	125	13	13	14	14	24	3/4	NPT	50	1 Week



FXA-85	21010085	125	23	23	16	16	37	1	NPT	90	1 Week
FXA-130	21010130	125	35	35	20	20	37	1	NPT	125	1 Week
FXA-200	21010200	125	53	53	24	24	43	1 1/2	NPT	210	1 Week
FXA-300	21010300	125	79	79	24	24	55	1 1/2	NPT	225	1 Week
FXA-400	21010400	125	106	106	30	30	49	1 1/2	NPT	300	2 Weeks
FXA-500	21010500	125	132	132	30	30	57	2	NPT	330	2 Weeks
FXA-600	21010600	125	158	158	30	30	65	2	NPT	360	2 Weeks
FXA-700	21040715	200	185	185	30	30	80	1 1/2	NPT	401	3 Weeks
FXA-800L	21010805	125	211	211	32	32	76	2	NPT	475	2 Weeks



FXA-1000	21011000	125	264	264	36	36	87	3	NPT	655	2 Weeks
FXA-1200	21011200	125	317	317	36	36	98 1/2	3	NPT	783	2 Weeks
FXA-1400	21011400	125	370	370	36	36	110 1/2	3	NPT	793	2 Weeks
FXA-1600	21011600	125	422	422	48	48	84	3	NPT	1044	3 Weeks
FXA-2000	21012000	125	528	528	48	48	96	3	NPT	1154	3 Weeks
FXA-2500	21012500	125	660	660	48	48	110	4	NPT	1453	3 Weeks
FXA-3000L	21013000	125	792	792	48	48	133	4	NPT	1671	3 Weeks
FXA-3000S	21013001	125	792	792	60	60	93	4	NPT	1933	4 Weeks
FXA-4000	21014000	125	1056	1056	60	60	115	4	NPT	2305	4 Weeks
FXA-5000	21015000	125	1320	1320	60	60	138	4	NPT	2685	4 Weeks
FXA-7500	21017500	125	1980	1980	72	72	140	4	NPT	3906	4 Weeks
FXA-10000	21019999	125	2640	2640	72	72	172	4	NPT	4687	4 Weeks
FXA-15000	21500000	125	3963	3963	72	72	243	4	NPT	6249	4 Weeks

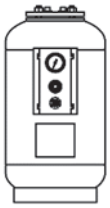
Products Comply NSF / ANSI Standard 61

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG. Lead time may vary depending on material availability.

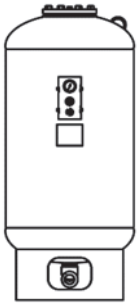
WELL WATER & PRESSURE BOOSTER TANKS

FXA-HP WELL WATER & PRESSURE BOOSTER TANKS — ASME

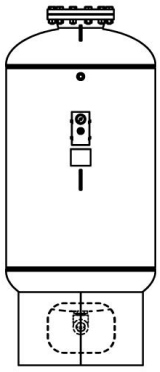
HIGH PRESSURE BLADDER TANKS - 200 PSI



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FXA-35-HP	21040035	200	10	10	12	12	23 1/2	3/4	NPT	52	2 Weeks
FXA-50-HP	21040050	200	13	13	14	14	24	3/4	NPT	59	2 Weeks



FXA-85-HP	21040085	200	23	23	16	16	37	1	NPT	95	2 Weeks
FXA-130-HP	21040130	200	35	35	20	20	37	1	NPT	127	2 Weeks
FXA-200-HP	21040200	200	53	53	24	24	43	1 1/2	NPT	194	2 Weeks
FXA-300-HP	21040300	200	79	79	24	24	55	1 1/2	NPT	252	2 Weeks
FXA-400-HP	21040400	200	106	106	30	30	49	1 1/2	NPT	336	3 Weeks
FXA-500-HP	21040500	200	132	132	30	30	57	2	NPT	400	3 Weeks
FXA-600-HP	21040600	200	158	158	30	30	65	2	NPT	419	3 Weeks
FXA-700-HP	21040715	200	185	185	30	30	80	1 1/2	NPT	600	3 Weeks
FXA-800L-HP	21040805	200	211	211	32	32	76	2	NPT	680	3 Weeks



FXA-1000-HP	21041000	200	264	264	36	36	87	3	NPT	917	3 Weeks
FXA-1200-HP	21041200	200	317	317	36	36	98 1/2	3	NPT	1096	3 Weeks
FXA-1400-HP	21041400	200	370	370	36	36	110 1/2	3	NPT	1110	3 Weeks
FXA-1600-HP	21041600	200	422	422	48	48	84	3	NPT	1462	4 Weeks
FXA-2000-HP	21042000	200	528	528	48	48	96	3	NPT	1616	4 Weeks
FXA-2500-HP	21042500	200	660	660	48	48	110	4	NPT	2034	4 Weeks
FXA-3000L-HP	21043000	200	792	792	48	48	133	4	NPT	2339	4 Weeks
FXA-3000S-HP	21043001	200	792	792	60	60	93	4	NPT	2706	5 Weeks
FXA-4000-HP	21044000	200	1056	1056	60	60	115	4	NPT	3227	5 Weeks
FXA-5000-HP	21045000	200	1320	1320	60	60	138	4	NPT	3759	5 Weeks
FXA-7500-HP	21047500	200	1980	1980	72	72	140	4	NPT	5468	5 Weeks
FXA-10000-HP	21049999	200	2640	2640	72	72	172	4	NPT	6562	5 Weeks
FXA-15000-HP	21040000	200	3963	3963	72	72	243	4	NPT	8749	4 Weeks

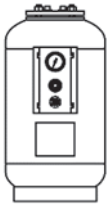
Products Comply NSF / ANSI Standard 61

Notes: Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; For vessel dimensions (diameter, height and system connection) refer to FXA price sheet or Submittal Data. Lead time may vary depending on material availability.

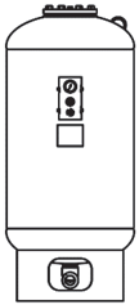
WELL WATER & PRESSURE BOOSTER TANKS

FXA-HP WELL WATER & PRESSURE BOOSTER TANKS — ASME

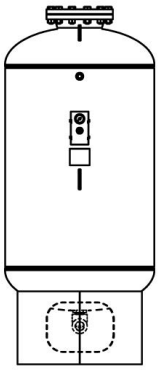
HIGH PRESSURE BLADDER TANKS - 250 PSI



Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FXA-35-HP	21050035	250	10	10	12	12	23 1/2	3/4	NPT	53	2 Weeks
FXA-50-HP	21050050	250	13	13	14	14	24	3/4	NPT	65	2 Weeks



FXA-85-HP	21050085	250	23	23	16	16	37	1	NPT	105	2 Weeks
FXA-130-HP	21050130	250	35	35	20	20	37	1	NPT	141	2 Weeks
FXA-200-HP	21050200	250	53	53	24	24	43	1 1/2	NPT	220	2 Weeks
FXA-300-HP	21050300	250	79	79	24	24	55	1 1/2	NPT	282	2 Weeks
FXA-400-HP	21050400	250	106	106	30	30	49	1 1/2	NPT	410	3 Weeks
FXA-500-HP	21050500	250	132	132	30	30	57	2	NPT	512	3 Weeks
FXA-600-HP	21050600	250	158	158	30	30	65	2	NPT	569	3 Weeks
FXA-700-HP	21050715	250	185	185	30	30	80	1 1/2	NPT	797	3 Weeks
FXA-800L-HP	21050805	250	211	211	32	32	76	2	NPT	711	3 Weeks



FXA-1000-HP	21051000	250	264	264	36	36	87	3	NPT	1048	3 Weeks
FXA-1200-HP	21051200	250	317	317	36	36	98 1/2	3	NPT	1253	3 Weeks
FXA-1400-HP	21051400	250	370	370	36	36	110 1/2	3	NPT	1269	3 Weeks
FXA-1600-HP	21051600	250	422	422	48	48	84	3	NPT	1670	4 Weeks
FXA-2000-HP	21052000	250	528	528	48	48	96	3	NPT	1846	4 Weeks
FXA-2500-HP	21052500	250	660	660	48	48	110	4	NPT	2325	4 Weeks
FXA-3000L-HP	21053000	250	792	792	48	48	133	4	NPT	2674	4 Weeks
FXA-3000S-HP	21053001	250	792	792	60	60	93	4	NPT	3093	5 Weeks
FXA-4000-HP	21054000	250	1056	1056	60	60	115	4	NPT	3688	5 Weeks
FXA-5000-HP	21055000	250	1320	1320	60	60	138	4	NPT	4296	5 Weeks
FXA-7500-HP	21057500	250	1980	1980	72	72	140	4	NPT	6250	5 Weeks
FXA-10000-HP	21059999	250	2640	2640	72	72	172	4	NPT	7499	5 Weeks
FXA-15000-HP	21050000	250	3963	7810	72	72	243	4	NPT	9998	5 Weeks

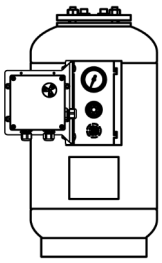
Products Comply NSF / ANSI Standard 61

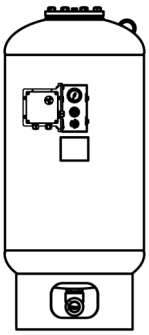
Notes: Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Lead time may vary depending on material availability.

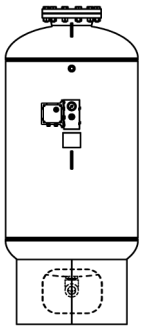
WELL WATER & PRESSURE BOOSTER TANKS

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.







Model	Part Number	Pressure Rating (PSI)	Volume (Gal)	Acceptance Volume (Gal)	Product Dimensions L	W	H	System Connection Size (in)	Type	Weight (lbs)	Lead Time
FXA-35-WG	61010035	125	10	10	12	12	23 1/2	3/4	NPT	40	1 Week
FXA-50-WG	61010050	125	13	13	14	14	24	3/4	NPT	50	1 Week
FXA-85-WG	61010085	125	23	23	16	16	37	1	NPT	90	1 Week
FXA-130-WG	61010130	125	35	35	20	20	37	1	NPT	125	1 Week
FXA-200-WG	61010200	125	53	53	24	24	43	1 1/2	NPT	210	1 Week
FXA-300-WG	61010300	125	79	79	24	24	55	1 1/2	NPT	225	1 Week
FXA-400-WG	61010400	125	106	106	30	30	49	1 1/2	NPT	300	1 Week
FXA-500-WG	61010500	125	132	132	30	30	57	2	NPT	335	1 Week
FXA-600-WG	61010600	125	158	158	30	30	65	2	NPT	360	1 Week
FXA-700-WG	61010700	125	185	185	30	30	80	1 1/2	NPT	600	2 Weeks
FXA-800L-WG	61010805	125	211	211	32	32	76	2	NPT	475	2 Weeks
FXA-1000-WG	61011000	125	264	264	36	36	87	3	NPT	655	2 Weeks
FXA-1200-WG	61011200	125	317	317	36	36	98 1/2	3	NPT	783	2 Weeks
FXA-1400-WG	61011400	125	370	370	36	36	110 1/2	3	NPT	793	2 Weeks
FXA-1600-WG	61011600	125	422	422	48	48	84	3	NPT	1044	2 Weeks
FXA-2000-WG	61012000	125	528	528	48	48	96	3	NPT	1154	2 Weeks
FXA-2500-WG	61012500	125	660	660	48	48	110	4	NPT	1453	3 Weeks
FXA-3000L-WG	61013000	125	792	792	48	48	133	4	NPT	1671	3 Weeks
FXA-3000S-WG	61013001	125	792	792	60	60	93	4	NPT	1933	3 Weeks
FXA-4000-WG	61014000	125	1056	1056	60	60	115	4	NPT	2305	3 Weeks
FXA-5000-WG	61015000	125	1320	1320	60	60	138	4	NPT	2685	4 Weeks
FXA-7500-WG	61017500	125	1980	1980	72	72	140	4	NPT	3906	4 Weeks
FXA-10000-WG	61019999	125	2640	2640	72	72	172	4	NPT	4687	4 Weeks
FXA-15000-WG	61010000	125	3963	3963	72	72	243	4	NPT	6249	4 Weeks

Products Comply NSF / ANSI Standard 61

Notes: Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 40 PSIG; Also available in 200 & 250 psi rated models. Lead time may vary depending on material availability.

Specify Standard or WessGuard® Bladder Monitor

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.

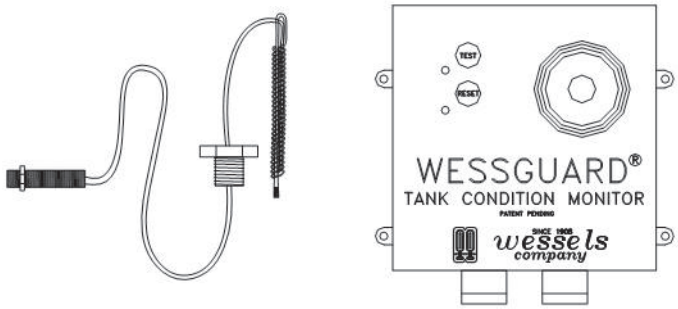
WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard®** monitor also has normally open contact to tie directly to an energy management system

WESSGUARD® RETROFIT - FXA

		Product Dimension		Tank Connection			
Model	Part Number	Length	Height	Size (in)	Type	Weight (lbs)	Lead Time
WG-RETRO	61110001	5 1/4	5 1/4	1	Sight Glass	3	2 Weeks
WG-RETRO2	61110002	5 1/4	1	1/2	NPT	3	2 Weeks

WG-RETRO2 is used on models manufactured in 2018 or later.

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® Bladder Monitor

WELL WATER & PRESSURE BOOSTER TANKS

FX REPLACEMENT BLADDERS & COVERS

	Bladder	Bottom Assembly	Top Assembly
Model	Part No.	Part No.	Part No.
FX 8	0300008	NA	0550008
FX 19	0300019	NA	0550019
FX 24	0300024	NA	0550024
FX 60V	0300060	0555060	0550060
FX 80V	0300080	0555080	0550080
FX 100V	0300100	0555100	0550100
FX 200V	0300200	0555200	0550200
FX 300V	0300300	0555300	0550300
FX 500V	0300500	0555500	0550500
FX 750V**	0300750	0555750	0550750
FX 1000V	0301000	0556000	0551000
FX 2000V	0302000	0557060	0552000

FXA REPLACEMENT BLADDERS & COVERS

	Bladder	Bottom Assembly	Top Assembly
Model	Part No.	Part No.	Part No.
FXA 35	02210035	NA	0521035
FXA 50	02210050	NA	0521050
FXA 85	02210085	0421085	0521085
FXA 130	02210130	0421130	0521130
FXA 200	02210200	0421200	0521200
FXA 300	02210300	0421300	0521300
FXA 400	02210400	0421400	0521400
FXA 500	02210500	0421500	0521500
FXA 600	02210600	0421600	0521600
FXA 700	02210700	0421700	0521700
FXA 700T*	02210705	0421800	0521800
FXA 800L	02210805	0421805	0521805
FXA 1000	02211000	0422000	0521810
FXA 1200	02211200	0422200	0521815
FXA 1400	02211400	0422400	0521820
FXA 1600	02211600	0422600	0521825
FXA 2000	02212000	0423000	0521830
FXA 2500	02212500	0423000	0521830
FXA 3000L	02213000	0423000	0521830
FXA 3000S	02213006	0423000	0521830
FXA 4000	02214000	0423000	0521830
FXA 5000	02215000	0423000	0521830
FXA 7500	02217500	0423000	0521830
FXA 10000	02219999	0423000	0521830

WELL WATER & PRESSURE BOOSTER TANKS