



SUBMITTAL

WHV-C SERIES

DOMESTIC HOT WATER
EXPANSION TANKS

Models: WHV 35-C TO WHV 800L-C

Rev. 2 4/20/2020

Job Name _____ Location _____ _____ Engineer _____ Contractor _____ Sales Rep. _____	Submitted By _____ Date _____ Approved By _____ Date _____ Order No. _____ Date _____ Notes _____ _____ _____
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Description:

Flexcon patented type WHV-C tanks are ASME replaceable bladder type pre-charged domestic hot water expansion tanks for commercial and industrial potable hot water applications. They are designed to be installed between a backflow preventer and a hot water heater so it can accept the expanded volume of hot water and keep the system pressure below the relief valve setting. The water is contained in a butyl bladder. All WHV-C expansion tanks can be installed vertically or horizontally.

Construction:

Shell: Carbon Steel
 Heads: Carbon Steel
 Exterior: Carbocoat 140 - Harvester Red Bladder:
 Heavy-duty Butyl (FDA Approved) System
 Connection: Stainless Steel

Design Parameters:

Maximum Design Pressure: 150 PSIG* / 1034 kpa
 Temperature Range: -20°F to 240°F / -29 C to 116 C

Pressures Available: 200PSI 250PSI

Model Number	Wessels Model	Part Number	Tank Volume (Gal/L)	Tagging Information	Quantity
WHV 35-C	TXA-35	20010035	10/35		
WHV 50-C	TXA-50	20010050	13/50		
WHV 85-C	TXA-85	20010085	23/85		
WHV 130-C	TXA-130	20010130	35/130		
WHV 200-C	TXA-200	20010200	53/200		
WHV 300-C	TXA-300	20010300	79/300		
WHV 400-C	TXA-400	20010400	106/400		
WHV 500-C	TXA-500	20010500	132/500		
WHV 600-C	TXA-600	20010600	158/600		
WHV 800L-C	TXA-800L	20010805	211/800		

Typical Specification

Furnish and install, as shown on plans, a _____ gallon _____" diameter X _____" (high) pre-charged steel domestic hot water expansion tank with replaceable FDA approved butyl bladder. The tank shall have a bottom NPT stainless steel system connection, a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements, a pressure gauge, and bladder integrity monitor. The tank shall be fitted with lifting rings and a floor mounting skirt for vertical installation. The tank must be constructed in accordance with most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code and stamped 150 psi working pressure.

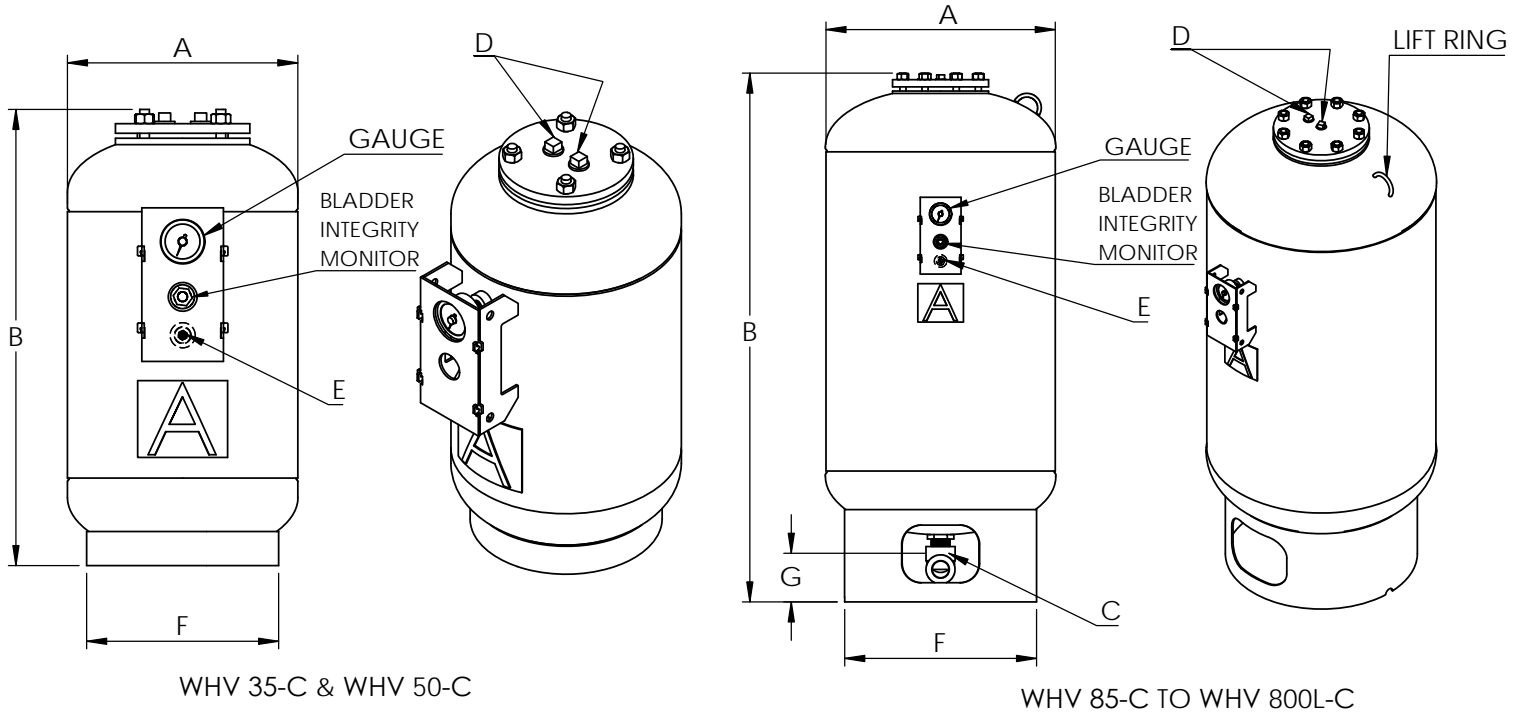
Each tank shall be Flexcon model number WHV _____-C or approved equal.

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Dimensions & Weights:

Model Number	Wessels Model	A (in/mm)	B (in/mm)	System Connection C (in/mm)	System Connection D (in/mm)	Charging Valve E	F (in/mm)	G (in/mm)	Approx Ship Wt. (lbs/kgs)
WHV 35-C	TXA-35	12/305	23 ½ / 600	-	¾ NPT / 19	.302"-32NC	10/250	-	40/15
WHV 50-C	TXA-50	14/356	24/610	-	¾ NPT / 19	.302"-32NC	10/250	-	50/19
WHV 85-C	TXA-85	16/406	37/940	1 NPT / 25	¾ NPT / 19	.302"-32NC	12/305	5 ½ / 140	90/34
WHV 130-C	TXA-130	20/508	37/940	1 NPT / 25	¾ NPT / 19	.302"-32NC	16/406	5 ½ / 140	125/57
WHV 200-C	TXA-200	24/610	43/1092	1 ½ NPT / 38	¾ NPT / 19	.302"-32NC	20/508	5 ¼ / 133	210/95
WHV 300-C	TXA-300	24/610	55/1397	1 ½ NPT / 38	¾ NPT / 19	.302"-32NC	20/508	5 ¼ / 133	225/102
WHV 400-C	TXA-400	30/762	49/1245	1 ½ NPT / 38	¾ NPT / 19	.302"-32NC	24/610	5 ¼ / 133	300/136
WHV 500-C	TXA-500	30/762	57/1448	2 NPT / 50	¾ NPT / 19	.302"-32NC	24/610	5 ¼ / 133	335/152
WHV 600-C	TXA-600	30/762	65/1651	2 NPT / 50	¾ NPT / 19	.302"-32NC	24/610	5 ¼ / 133	360/163
WHV 800L-C	TXA-800L	32/813	76/1930	2 NPT / 50	¾ NPT / 19	.302"-32NC	28/711	5 ¼ / 133	475/216

Notes:

- Tanks are factory pre-charged at 40 psig / 276 kpa and field adjustable.
- California code-sight glass is available upon request.
- Both top and bottom connections (C and D) access the bladder.
- Bottom connection C is intended to be used for main water supply connection. Top connection D can be used for auxiliary gauge, pressure switch, etc.
- Mounting clips are available upon request.
- U.S. Patent No. 8,633,825 B2.