

PRO-Source PLUS™ fibrewound pressure tanks

- **Built Tough... for Quality** – Every PRO-Source PLUS™ tank utilizes a durable, FDA approved air cell which is resistant to chlorine and will not promote taste or odor problems associated with iron bacteria that may be present in the water supply.
- **Built Tough... for Durability** – Each tank is wrapped with more than three miles of over-lapping, continuous fiberglass strands, sealed with high grade epoxy resin, then oven cured. Tough composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.
- **Built Tough... for Easy Installation and Service** – Not only is composite construction tougher, it's also more lightweight... as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person. Repairable with the tank installed.



- ▶ **Durable Composite Construction** – A rugged one-piece molded, inner-liner of premium high-density polyethylene
 - Miles of continuous overlapping fiberglass strands, sealed with oven cured epoxy make the outer-shell impervious to rust, dents, and ultra-violet rays (no paint to scratch and touch-up)
- ▶ **Air Cell** – The air cell is fabricated from durable and extensively tested ethyl-vinyl-acetate (EVA)
 - EVA is resistant to chlorine
- ▶ **Tank Base** – Rigid molded polyethylene is the sturdiest composite base on the market. Corrosion- and impact-resistant. Base rotates 360° for ease-of-service hook-up.
- ▶ **Replaceable Air Cell** – With the tank installed! Air cell access is via a top mount design. Generous and accessible air cell opening facilitates easy removable and re-installation of replacement air cell (with the professional contractor in mind).
- ▶ **Stainless Steel Service Connection** – 300 grade, the professional's choice
- ▶ **Five Year Warranty** – We are the only US manufacturer to design and manufacture fibrewound and steel tanks!

application

Use wherever pressurized tanks are needed in water systems applications

certification



UL Classified to ANSI/NSF 61, Drinking Water System Components

PRO-Source PLUS™ is a trademark of WICOR Industries.

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specifications

Inner Liner – One-piece high-density polyethylene

Outer Shell – Fiberglass-wound and epoxy resin sealed

Air Cell – Heavy mil Ethyl-Vinyl-Acetate (EVA)

Upper and Lower Flanges – Reinforced polypropylene

Base – One piece high density polyethylene

Service Connection – Stainless steel on all models, 300 grade

Air Valve – Brass body, Schrader core assembly

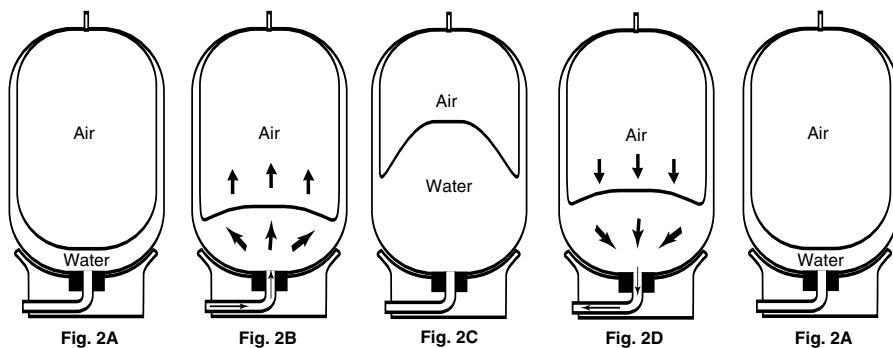
Weather Cap – High density polyethylene

ordering information

Catalog Number	Max. Capacity gal/liter	Diameter inch/cm	Height inch/cm	Service Clearance inch/cm	Precharge PSI/kPa	Connection Size Female	Connection Material	Drawdown in Gallons/Liters			Weight lbs/kg
								20-40	30-50	40-60	
PSP-FW20-6	20/76	16/41	36/92	48/122	40/276	1" NPT	Stn. Stl.	6.9/26.2	5.9/22.4	5.2/19.7	25/11
PSP-FW35-10	35/133	20/51	39.5/101	51/130	40/276	1" NPT	Stn. Stl.	12.1/46.0	10.3/39.1	9.0/34.2	40/18
PSP-FW40-12	40/151	16/41	60.5/154	80/201	40/276	1" NPT	Stn. Stl.	13.8/52.2	11.8/44.7	10.3/39.0	36/16.3
PSP-FW48-14	48/182	20/51	50.25/128	69/175	40/276	1" NPT	Stn. Stl.	16.5/62.5	14.2/53.8	12.4/46.9	41/18.6
PSP-FW60-18	60/228	24/61	45.75/117	58/148	40/276	1-1/4" NPT	Stn. Stl.	20.7/78.6	17.7/67.2	15.5/58.9	60/27
PSP-FW85-25	85/323	24/61	59.5/152	78/199	40/276	1-1/4" NPT	Stn. Stl.	29.3/111.3	25.1/95.3	21.9/83.2	75/34
PSP-FW119-35	119/452	28/72	62.25/159	81/206	40/276	1-1/4" NPT	Stn. Stl.	41.1/156.1	35.1/133.3	30.7/116.6	105/48

Maximum Operating Pressure = 100 PSI Maximum Liquid Temperature: 120°F Maximum External (Ambient) Temperature: 125°F

operating cycle



1. Tank nearly empty – Air expands, filling area inside tank
2. Water begins to enter tank – Air is compressed in air cell as tank fills with water
3. Pump-up cycle completed – Air is now compressed to cut off setting of pressure switch
4. Water being drawn from tank – Compressed air in air cell forces water out of tank
5. Tank now empty – New cycle ready to begin

tank sizing rule

Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

EXAMPLE: For a 1 HP, 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized PRO-Source PLUS™ tank is a PSP-FW85-25, which has a 25.1 gallon drawdown.

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tank selection chart

Pump GPM	System Pressure Switch Setting – PSI					
	20-40		30-50		40-60	
	Run Times					
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute
5	PSP-FW20	PSP-FW35	PSP-FW20	PSP-FW35	PSP-FW20	PSP-FW40
7-1/2	PSP-FW20	PSP-FW48	PSP-FW35	PSP-FW48	PSP-FW35	PSP-FW60
10	PSP-FW35	PSP-FW60	PSP-FW35	PSP-FW60	PSP-FW40	PSP-FW85
12-1/2	PSP-FW40	PSP-FW60	PSP-FW40	PSP-FW85	PSP-FW48	PSP-FW85
15	PSP-FW48	PSP-FW85	PSP-FW48	PSP-FW119	PSP-FW60	PSP-FW119
20	PSP-FW60	PSP-FW119	PSP-FW60	PSP-FW119	PSP-FW85	PSP-FW85 (2)
30	PSP-FW85	PSP-FW85 (2)	PSP-FW119	PSP-FW60 + PSP-FW119	PSP-FW119	PSP-FW119 (2)
50	PSP-FW85 (2)	PSP-FW119 (2)	PSP-FW85 (2)	PSP-FW119 (3)	PSP-FW119 (2)	PSP-FW119 (3)

NOTE: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill.

drawdown volume multiplier* (approx.)

Pump Off Pressure PSI	Pump Start Pressure – PSI							
	10	20	30	40	50	60	70	80
20	0.26							
30	0.41	0.22						
40		0.37	0.18					
50		0.46	0.31	0.15				
60			0.40	0.27	0.13			
70			0.47	0.35	0.24	0.12		
80				0.42	0.32	0.21	0.11	
90				0.48	0.38	0.29	0.19	0.10
100					0.44	0.35	0.26	0.17

*Utilize this chart if proper selection cannot be made using tank selection chart. Drawdown based on Boyle's Law.

PROCEDURE:

1. Identify drawdown multiplier relating to specific application.
2. Insert multiplier (X) into the following formula:

$$\frac{\text{Pump GPM} \times \text{Min Run Time}}{\text{Multiplier (X)}} = \text{Minimum Tank Capacity Required}$$
3. Refer to "Ordering Information" Table – Max. Capacity Gals.