

APPLICATIONS

Use wherever pressurized tanks are needed in water systems applications.

SPECIFICATIONS

Shell: Heavy-gauge steel

Base: High-impact composite, ABS

Finish: Electrostatically applied, baked-on polyester paint

Water Cell: One-piece seamless PVC, made from FDA listed material

Flange: Reinforced polypropylene

Service Connection: Reinforced polypropylene integral to flange

Air Valve: Rubber stem/brass body Schrader valve assembly

UV Valve Cover: High-density polyethylene

ORDERING	INFORMATI	ION									
Catalog Number	Maximum Capacity Gal/Liter	Diameter* Inch/cm	Height	Length	Precharge	Connection Size	Drawdown in Gallons/Liter			Weight	
			Inch/cm	Inch/cm	PSI/kPa	Female	20-40	30-50	40-60	lbs/kg	
VERTICAL MODELS											
PS6-S02	6.0/22.7	12/30.5	16.1/40.9	-	40/276	3/4" NPT	2.2/8.3	1.8/6.8	1.6/6.0	18/8.2	
PS19S-T02	19/72	20/51	21/53.3	-	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	45/20.4	
PS19T-T02	19/72	16/40.6	27.5/70	-	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	40/18.1	
PS32-T03	32/122	20/51	43/109	-	40/276	1" NPT	11.6/43.9	9.8/37.1	8.5/32.2	56/25.4	
PS35-T05	35/133	16/40.6	33/84	-	40/276	1" NPT	12.7/48.1	10.7/40.5	9.3/35.2	66/29.9	
PS50-T50	50/189	20/51	32.5/83	-	40/276	1-1/4" NPT	18.3/69.3	15.5/58.7	13.4/50.7	84/38.1	
PS62-T51	62/235	24/61	39.5/100	-	40/276	1-1/4" NPT	21.4/81.0	18.3/69.3	16.0/60.6	112/50.8	
PS85-T52	85/322	24/61	51/130	-	40/276	1-1/4" NPT	30/113.6	26/98.4	22/83.3	124/56.2	
PS119-TR50	119/450	24/61	68/173	-	40/276	1-1/4" NPT	41.3/156.3	35.4/134.0	31.0/117.3	140/63.5	
				IN-LINE	VERTICAL MO	DELS					
PS2-S01	2.0/7.6	8.4/21.3	12.6/32.0	-	20/137.8	3/4" NPTM	0.7/2.65	0.6 /2.2	NA	12.6/5.7	
PS5-S02	5.0/18.9	10.6/26.9	16.2/41.1	-	30/206.8	3/4" NPTM	2.2/8.3	1.8/6.8	1.8/6.8	16.2/7.3	
HORIZONTAL MODELS											
PS6H-S05	6.0/22.7	12/30.5	13.8/35.0	16/40.6	40/276	3/4" NPT	2.2/8.3	1.8/6.8	1.6/6.0	22/10	
PS19H-S00	19/72	16/40.6	17.5/44.5	28/71.1	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	40/18	

*Subject to change without notice.

Maximum Operating Pressure = 100 PSI

Maximum Liquid Temperature: 120°F (49°C) Maximum External (Ambient) Temperature: 125°F (52°C)



FEATURES

Heavy-Gauge Metal Construction:

Sturdy "welded wrapper and head design." Built to last.

Polyester Paint Finish: Electrostatically powder-painted, then oven-baked for a smooth high-gloss, appliance-quality finish. Resists corrosion.

Elongated, Seamless Water Cell:

Controlled 2-dimensional cell expansion.

Rugged, seamless "water cell" prevents the most common cause of pump failure – "waterlogging."

Water never touches the steel tank material.

Translucent bag material facilitates manufacturing quality control inspection.

Composite Sealing Flange:

- Corrosion-resistant.
- Integral O-ring groove better traps the water cell's sealing ring.
- Reinforcing ribs strengthen and maintain a flat smooth sealing surface.

Integral Standpipe: Keeps the water cell standing erect, promoting complete flushing of the water entering/exiting the tank.

Nitrogen-Rich Precharge: Decreases air permeation three to four times over straight air precharge.

40 PSI Precharge: Ready for use with 40/60 pressure range systems. Enables installer to reduce pressure depending on pressure switch setting.

Sturdy Base: Tested-tough composite construction.

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[®] tank is a PS85-T52 which has a 26 gallon drawdown.

CHART A: TANK SELECTION CHART									
Pump	SYSTEM PRESSURE SWITCH SETTING – PSI								
GPM	20-	-40	30-	-50	40-60				
			Runt	imes					
	1 Minute 2 Minu		1 Minute	2 Minute	1 Minute	2 Minute			
5	PS19T	PS32	PS19T	PS35	PS19T	PS50			
7.5	PS32	PS50	PS32	PS50	PS32	PS62			
10	PS32	PS62	PS35	PS85	PS50	PS85			
12.5	PS35	PS85	PS50	PS85	PS50	PS119			
15	PS50	PS85	PS50	PS119	PS62	PS119			
20	PS62	PS119	PS85	PS85 (2)	PS85	PS85 (2)			
30	PS85	PS85 (2)	PS119	PS119 + PS85	PS119	PS119 (2)			
30	-	-	PS119	PS119 + PS85	PS119	PS119 (2)			
50	PS62 + PS85	PS85 (3)	PS85 (2)	PS119 (3)	PS85 + PS119	PS119 (3) + PS50			

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.

Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CHART B: DRAWDOWN VOLUME MULTIPLIER* (APPROX.)										
Pump Off	PUMP START PRESSURE – PSI									
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		

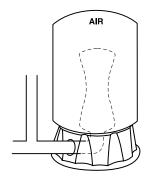
*Utilize this chart if proper selection cannot be made using Chart A. Drawdown based on Boyle's Law.

PROCEDURE: 1. Identify drawdown multiplier relating to specific application.

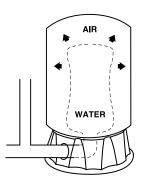
	2. Insert multiplier (X) into the following formula:						
	Pump GPM x Min Runtime _ Minimum Tank						
	Multiplier (X) Capacity Required						
EXAMPLE:	An example of a 20 GPM pump with a minimum runtime of 1 minute, installed on a 50-70 PSIG system pressure range:						
	20 GPM x 1 minute -2(factor) from Chart P = 83.3 minimum U.S. gal. tank capacity required						
	.24 (factor) from Chart B						

Referring to "Ordering Information" chart, the model PS85-T52 has the closest U.S. gallon capacity that is greater or equal to the minimum volume requirement of 83.3 U.S. gallons.

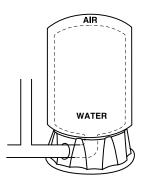
OPERATING CYCLE



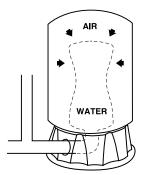
1. Separator is completely empty: A new cycle is ready to begin. Simple, positive action produces maximum drawdown on every cycle.



2. Water begins to enter the tank: Air 3. Pump-up cycle completed: is compressed around the water separator as it fills with water.



Air is now compressed to the cut-off setting of pressure switch.



4. Water is being drawn from the tank: Compressed air in the tank forces water out of the separator.

ACCESSORIES



PKG 198 **Universal Jet Pump** to Tank Bracket



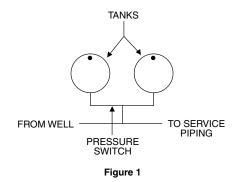
PKG 111, PKG 112 or PKG 207 Jet Pump-to-Tank Mounting Pkg.

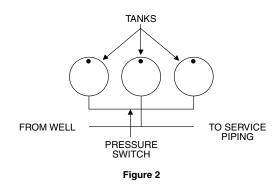
ORDERING INFORMATION

PKG 198	Jet Pump Mounting Bracket
PKG 111	Pump-to-Tank Fitting Package for composite jet pumps
PKG 112	Pump-to-Tank Fitting Package for cast iron series jet pumps with composite fittings
PKG 207	Pump-to-Tank Fitting Package for cast iron series jet pumps with galvanized fittings

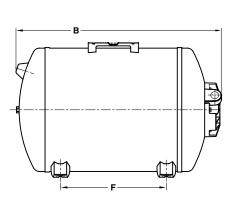
MULTIPLE TANK INSTALLATIONS

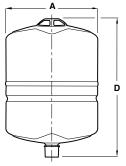
Pro-Source® tanks can be connected together to increase the supply of usable water (drawdown). Two tanks of the same size will double the supply and three tanks will triple the supply. See Figures No. 1 and 2 for the typical installations of this kind.

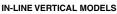


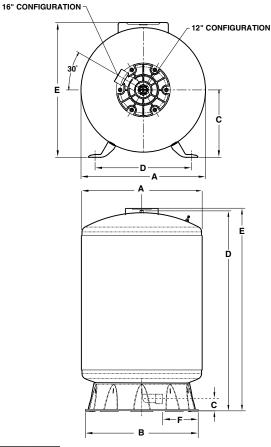


OUTLINE DIMENSIONS









Catalog Number Discharge NPT		Α	в	С	D	Е	F		
VERTICAL MODELS									
PS6-S02	3/4"	12.0	-	-	16.1	-	-		
PS19T-T02	1"	16.1	15.5	2.0	27.8	-	3.9		
PS32-T03	1"	16.1	15.5	2.0	43.0	-	2.3		
PS19S-T02	1"	20.1	15.5	2.0	-	21.5	2.3		
PS35-T05	1"	20.1	15.5	2.0	33.0	-	2.3		
PS50-T50	1-1/4"	24.1	22.7	2.5	33.2	-	5.5		
PS62-T51	1-1/4"	24.1	22.7	2.5	40.1	-	5.5		
PS85-T52	1-1/4"	24.1	22.7	2.5	51.5	-	5.5		
PS119-TR50	1-1/4"	24.1	22.7	2.5	68.6	-	5.5		
IN-LINE VERTICAL MODELS									
PS2-S01	3/4"	18.4	-	-	12.6	-	-		
PS5-S02	3/4"	10.6	-	-	16.2	-	-		
HORIZONTAL MODELS									
PS6H	3/4"	12.1	16.9	6.9	10.0	13.3	6.1		
PS19H 1"		16.2	26.6	8.7	12.5	17.5	13.8		

Dimensions (in inches) are for estimating purposes only.



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