PENTAIR

WELLMATE™

COMPOSITE PRESSURE BOOSTER VESSELS

pentair.com

THE LONG-LASTING PRESSURE TANKS THAT ARE THE VALUE-ADDED CHOICE FOR YOU AND YOUR CUSTOMERS.

WellMate™ CLASSIC
RESIDENTIAL CAPTIVE AIR TANKS

TIMETESTED RELIABILITY, PREFERRED BY PROS

The Pentair® WellMate™ Classic series of captive air tanks utilize a high impact CPVC service connection that allows for both installation flexibility and unmatched durability.

FEATURES AND BENEFITS

- 100% composite construction is scratch, dent and corrosion resistant
- Lightweight, high-strength construction – ease of installation and serviceability
- High-impact CPVC drain assembly Use the threads, or cut it off, the choice is yours!
- Seamless, durable PEU aircell is fully replaceable and constructed of heavy-gauge engineered polymer

ADVANTAGES

- Corrosion-proof composite construction
- Little or no maintenance
- Longer life, greater flexibility
- Light weight
- NSF listed material
- Factory backed warranty

APPLICATIONS


Residential


Light Commercial


Agricultural

High impact CPVC drain assembly - offers both flexibility and durability

Durable interior air cell is fully replaceable and constructed of heavy-gauge engineered polyetherurethane (PEU).

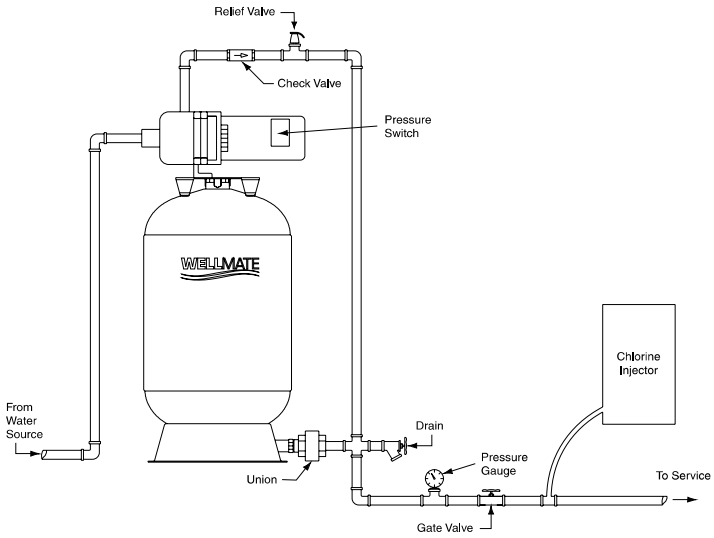
One piece, seamless inner shell molded of premium, high-density polyethylene.

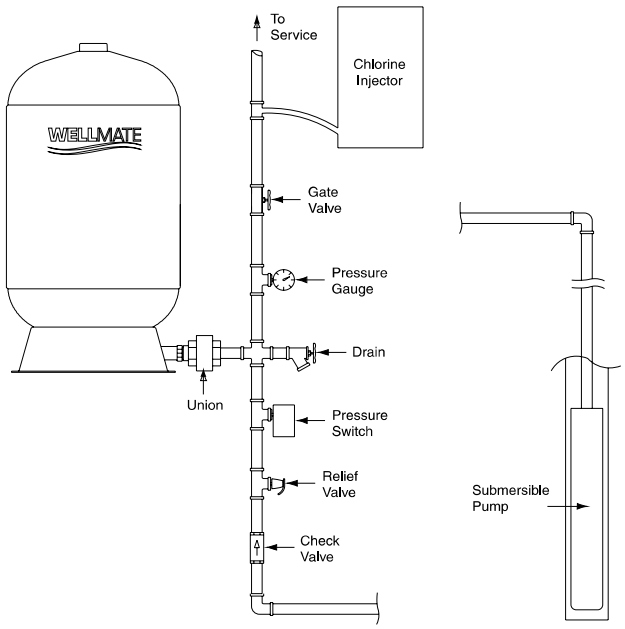
Outer shell is a composite of continuous fiberglass strands sealed with high-grade epoxy resin.

Seamless, full-size, blow molded air cell is custom fitted for each tank size.

Sturdy, molded polymeric base is corrosion and impact proof.

Bottom inlet/outlet one-piece drain is custom molded.





TANK SIZING INFORMATION

There are three factors to consider when selecting the proper size WellMate for your water system:

- The pump delivery rate in gallons/liters per minute (GPM/LPM).
- The recommended minimum running time of the pump.
- The minimum (cut-in) & maximum (cut-out) system pressure parameters.

Once these factors are known, the following calculations will determine, in most cases, the correct model to meet your specifications.*

CALCULATING DRAWDOWN

1. Pump delivery rate _____ GPM/LPM
2. Desired minimum pump running time in minutes (1 minute, 45 seconds = 1.75 minutes _____ Minutes)
3. Multiply line # 1 by line #2. This is the minimum drawdown or available water volume required. *_____ Gallons/Liters

CALCULATING TANK SIZE

4. Minimum system pressure (cut-in) _____ PSIG/kPa/bar
5. Maximum system pressure (cut-out) _____ PSIG/kPa/bar
6. Using table #2, find the drawdown factor applicable to lines #4 and #5. _____Factor
7. Divide line #3 by line #6 to determine the minimum total WellMate volume required. _____Gallons/liters
8. Refer to the design data and select the WellMate model with the lowest total capacity that is greater than or equal to line #7. _____Model

EXAMPLE : An application using an 8 GPM pump with a minimum run time of 1 minute and a 30-50 PSIG system pressure range;

$$\frac{\text{8 GPM x 1 minute}}{\text{.30 (factor)}} = \text{26.7 gallon minimum tank capacity}$$

*If a volume of water needed is greater than the amount calculated on line #3, enter that amount on line #3 in place of the calculated volume

SPECIFICATIONS WM PERFORMANCE DATA

Model Number	Capacity gal/litres	Maximum Operating Pressure psi / kPa / Bar	Drawdown 30/50 Setting** gal/liter	Diameter inch/cm	Overall height inch/cm	Height* Intel/Outlet to floor inch/cm	System Connection	Assembly Weight* ld/kg
WM-6	19.8/75	125/862/8.5	5.9/22.5	16/41	32/81	1.75/4.4	1.0" Male NPT	29.4/13.32
WM-9	29.5/112	125/862/8.5	8.9/33.5	16/41	44/112	1.75/4.4	1.0" Male NPT	36.5/16.56
WM-14WB	47.1/178	125/862/8.5	14.1/53.5	21/53	41.25/105	2.25/5.7	1.25" Male NPT	60.8/27.56
WM-20WB	60.0/227	125/862/8.5	18.0/68.1	24/61	41.5/105	2.25/5.7	1.25" Male NPT	62.8/28.48
WM-25WB	86.7/328	125/862/8.5	26.0/98.5	24/61	55.25/140	2.25/5.7	1.25" Male NPT	86/39.00
WM-35WB	119.7/453	125/862/8.5	35.9/135.9	24/61	74.25/189	2.25/5.7	1.25" Male NPT	112/50.8
WM-60	187/707	125/862/8.6	55.2/209	30/76	79/201	7.5/19	2" FNPT	234/106.14
WM-80	264/999	125/862/8.6	78.0/295	36/91	81/206	8.0/20	2" FNPT	292/132.45

Note : Maximum external operating temperature 120° F (49°C). Maximum internal operating temperature 100° F (38° C). Minimum operating temperature 40° F (4° C).

*Diameter, height and weight may vary slightly without notice.

** In keeping with current industry standards, drawdown factors are based on Boyle's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and guage and operating temperature of the system.

Tested and Certified by the Water Quality Association (WQA) to NSF/ANSI-61, Section 8 and NSF/ANSI372

Note : Pentair maintains a policy of continuous improvement/ development and reserves the right to amend the information given herein without any prior notice.

TABLE #2 - DRAWDOWN FACTORS

MAXIMUM SYSTEM PRESSURE (CUT-OUT) PSIG/(kPa)lbar	20 (138) 1.38	25 (173) 1.72	30 (207) 2.06	35 (242) 2.41	40 (276) 2.76	45 (311) 3.10	50 (345) 3.45	55 (380) 3.80	60 (414) 4.16	65 (449) 4.48	70 (483) 4.83	75 (518) 5.17	80 (552) 5.51	85 (587) 5.86	90 (621) 6.20	95 (656) 6.55	100 (690) 6.89	105 (725) 7.24	110 (759) 7.58
30/(207)/2.06	.21																		
35/(242)/2.41	.28	.19																	
40/(276)/12.76	.34	.26	.17																
45/(311)/3.10	.39	.32	.24	.16															
50/(345)/3.45	.44	.37	.30	.22	.15														
55/(380)/3.80	.47	.41	.34	.28	.21	.14													
60/(414)/4.16	.50	.44	.38	.32	.26	.19	.13												
65/(449)/4.48	.53	.48	.42	.36	.30	.24	.18	.12											
70/(483)/4.83	.56	.50	.45	.40	.34	.29	.23	.17	.11										
75/(518)/5.17		.53	.48	.43	.38	.32	.27	.22	.16	.11									
80/(552)/5.51			.50	.46	.41	.36	.31	.26	.21	.15	.10								
85/(587)/5.86				.48	.43	.39	.34	.29	.24	.20	.15	.10							
90/(621)/6.20					.46	.42	.37	.32	.28	.23	.19	.14	.09						
95/(656)/6.55						.44	.40	.35	.31	.27	.22	.18	.13	.09					
100/(690)/6.89							.42	.38	.34	.30	.26	.21	.17	.13	.09				
105/(725)/7.24								.41	.37	.33	.29	.25	.20	.16	.13	.08			
110/(759)/7.58									.39	.35	.31	.27	.24	.20	.16	.12	.08		
115/(794)/7.92										.38	.34	.30	.26	.23	.19	.15	.11	.08	
120/(828)/8.27											.36	.33	.29	.25	.22	.18	.15	.11	.07
125/(863)/8.62												.35	.32	.28	.25	.21	.18	.14	.11

In keeping with current industry standards, drawdown factors are based on Boyle's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and gauge, actual precharge pressure and operating temperature of the system.

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