PENTAIR
WATER SOLUTIONS

WELLMATE

PRODUCTS THAT ARE WORTH MORE

PENTAIR WELLMATE OFFERS DEALERS MORE ADVANTAGES, MORE SOLUTIONS FOR MORE APPLICATIONS.

Innovative Pentair WellMate solutions for water storage and pressure boosting applications offer you a world class product.

A growing customer base

In the residential, commercial, and agricultural markets of the world, Pentair WellMate composite tanks have long been the tank of choice for their unmatched performance over steel. As the recognized leader in composite pressure tank design, Pentair WellMate Water Systems give you more to sell. With unique features that translate into real benefits for your customers, WellMate by Pentair sets you apart from the competition.

RESIDENTIAL COMMERCIAL AGRICULTURAL

For well systems, water storage, and pressure boosting.

A MATERIAL DIFFERENCE

From the high-density polyethylene inner liner, to the fiberglass-wound and epoxy resin-sealed outer shell, Pentair WellMate tanks do not contain steel, so they will not rust. What they can do is make everything easier. WellMate Tanks by Pentair require little or no maintenance because they won't dent and they do not have paint to scratch and touch up. Their light weight – half that of steel tanks – makes them easier and faster to install. In fact, most can be handled by a single installer, keeping costs down. Pentair WellMate Tanks are certified to CE and NSF/ANSI std. 61 section 8 and Annex G and are 100% lead-free. In addition, they will not introduce undesirable chemicals or elements into the water.

A PRODUCT THAT'S WORTH MORE

Innovative Pentair WellMate solutions for water storage and pressure boosting applications offer you a world class product that's worth more. From initial design through promised delivery, quality is a hallmark of WellMate by Pentair Tanks. State-of-the-art equipment, the best materials and an ISO-9001 certified manufacturing facility guarantee that our one-piece composite construction is second to none.

ONGOING DISTRIBUTOR SUPPORT

As a Pentair WellMate distributor, you will enjoy the benefits of training programs, seminars and technical support, as well as marketing support and Growth Grant incentive programs.

WM-Series (classic model)

CAPTIVE AIR TANKS

EASY TO INSTALL, MAINTAIN, AND SERVICE

Our WM-Series offers features and benefits that steel tanks just can't match. From their corrosion-proof composite construction to their lighter weight, easier maintenance and less expensive installation, **WM-Series pressure tanks are the preferred choice of professionals, especially when the following advantages are added to the mix:**

- Available in CLASSIC drain assembly, polyetherurethane (PEU) air cell.
- Replaceable Air Cell – for easier field servicing.
- Easy to carry.
- Easy and Less Costly to Install – usually requiring only one person and fewer man-hours.
- Greater Drawdown than Comparably-Sized Steel Tanks – for greater efficiency.
- Won't Rust in Corrosive Environments – particularly important in agricultural and livestock applications, and coastal regions.

APPLICATIONS

- Residential
- Light Commercial
- Pressure Boosting

HERE ARE THE FEATURES THAT SET US APART

1. Durable, polyether urethane (PEU) air cell is fully replaceable.
2. One-piece seamless inner shell is molded of high-density polyethylene.
3. Outer shell is composed of continuous fiberglass strands sealed with high-grade epoxy resin.
4. Sturdy, molded polymeric base is corrosion- and impact-proof.
5. Bottom inlet/outlet one-piece drain is custom molded of high-impact PVC.

CLASSIC

CPVC Drain Assembly (threaded)

SPECIFICATIONS – CLASSIC

Model	Capacity liter	Maximum operating Pressure bar	Drawdown 30/50 setting** liter	Diameter* cm	Overall height* cm	Height* inlet/outlet to floor cm	System Connection	Assembly weight* kg
WM0060	55	8.6	16.5	41	66	4.4	1" male NPT	6.6
WM0075	75	8.6	22.5	41	81	4.4	1" male NPT	8.1
WM0120	112	8.6	33.5	41	112	4.4	1" male NPT	11.2
WM0150	153	8.6	45.8	41	145	4.4	1" male NPT	13.6
WM0180	178	8.6	53.5	53	105	5.7	1 ¼" male NPT	19.5
WM0235	235	8.6	68.1	61	105	5.7	1 ¼" male NPT	22.7
WM0330	328	8.6	98.5	61	140	5.7	1 ¼" male NPT	33.0
WM0450	453	8.6	135.9	61	189	5.7	1 ¼" male NPT	43.1

Note: *Maximum operating temperature 49°C. Minimum operating temperature 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 gauge and operating temperature of the system.*

TWO OF THE MOST COMMON HYDROPNEUMATIC APPLICATIONS

Tank Sizing Information

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

- The pump delivery rate in liters per minute (LPM).
- The recommended minimum running time of the pump.
- The minimum (cut-in) and 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	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.*	Liters

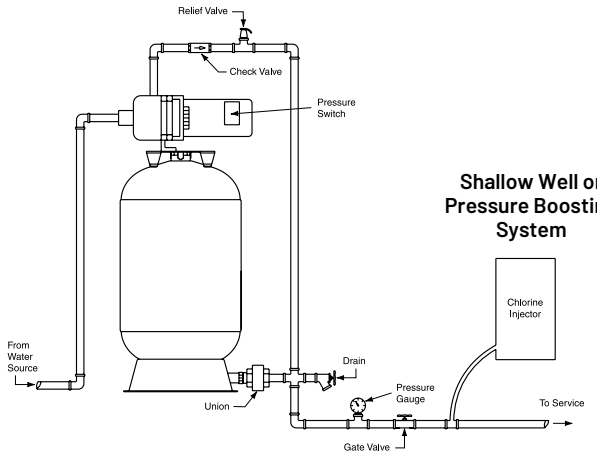
Calculating Tank Size

4	Minimum system pressure (cut-in)	bar
5	Maximum system pressure (cut-out)	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.	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

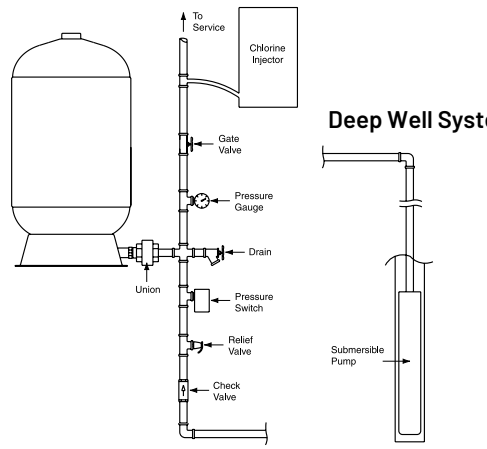
EXAMPLE: An application using an 30 LPM pump with a minimum run time of 1 minute and a 2.06 / 3.45 bar system pressure range;

$$\frac{30\ \text{LPM} \times 1\text{minute}}{.30\ (\text{factor})} = \frac{100\ \text{Liters minimum}}{\text{tank capacity}}$$

*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.



Shallow Well or Pressure Boosting System



Deep Well System

TABLE #2 – DRAWDOWN FACTORS

Maximum System Pressure (Cut-Out) PSIg/(kPa)/bar	Minimum system pressure (cut-in) – PSIg/(kPa)/bar																		
	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)/2.76	.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	.07
120/(828)/8.27											.36	.33	.29	.25	.22	.18	.15	.11	.11
125/(863)/8.62												.35	.32	.28	.25	.21	.18	.14	

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.

PENTAIR
WATER SOLUTIONS

www.pentair.eu