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 gal / liter	Maximum operating Pressure PSI / kPa / bar	Drawdown 30/50 setting** gal/liter	Diameter* Inch / cm	Overall height* Inch / cm	Height* inlet/outlet to floor inch / cm	System Connection	Assembly weight* Lb / kg
WM-4 / WM0060	14.5 / 55	125 / 862 / 8.6	4.4 / 16.5	16 / 41	26 / 66	1.75 / 4.4	1" male NPT	14.5 / 6.6
WM-6 / WM0075	19.8 / 75	125 / 862 / 8.6	5.9 / 22.5	16 / 41	32 / 81	1.75 / 4.4	1" male NPT	17.75 / 8.1
WM-9 / WM0120	29.5 / 112	125 / 862 / 8.6	8.9 / 33.5	16 / 41	44 / 112	1.75/ 4.4	1" male NPT	24.75 / 11.2
WM-12 / WM0150	40.3 / 153	125 / 862 / 8.6	12.1 / 45.8	16 / 41	57 / 145	13/4/4.4	1" male NPT	30 / 13.6
WM-14WB / WM0180	47.1 / 178	125 / 862 / 8.6	14.1 / 53.5	21 / 53	41.25 / 105	2.25 / 5.7	1 ¼" male NPT	43 / 19.5
WM-20WB / WM0235	60.0 / 227	125 / 862 / 8.6	18.0 / 68.1	24 / 61	41.5 / 105	2.25 / 5.7	1 ¼" male NPT	50 / 22.7
WM-23 / WM0300	79.6 / 301	125 / 862 / 8.6	23.8 / 90.4	21 / 53	62 / 157	2.25 / 5.7	1 ¼" male NPT	65.7 / 29.8
WM-25WB / WM0330	86.7 / 328	125 / 862 / 8.6	26.0 / 98.5	24 / 61	55.25 / 140	2.25 / 5.7	1 ¼" male NPT	72.75 / 33.0
WM-35WB / WM0450	119.7 / 453	125 / 862 / 8.6	35.9 / 135.9	24 / 61	74.25 / 189	2.25 / 5.7	1 ¼" male NPT	95 / 43.1

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 gauge and operating temperature of the system.*

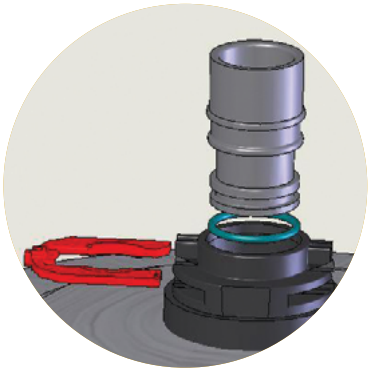
UT -Series

UNIVERSAL RETENTION TANKS

DO YOU HAVE CONTACT WITH CHEMICALS, CHLORINE, HYDROGEN SULFIDE? GO WITH THE PROS AND CHOOSE UT

There's no better tank choice for water treatment than our UT-Quick Connect Series. Composite construction makes the entire line impervious to the chemicals found in aggressive water. **Plus the following advantages give our UT-Quick Connect Series the kind of application versatility dealers want:**

- Inlet/Outlet PVC Pipe Connections – allow straight through T connection on bottom of tank for ease of piping.
- Blowdown Valve – for easy removal of sludge from bottom of tank.
- Hydropneumatic Convertible – optional air volume control assembly and micronizer allow for quick and easy tank conversion. Dealers no longer need to stock more than one kind of air-over-water pressure tank.



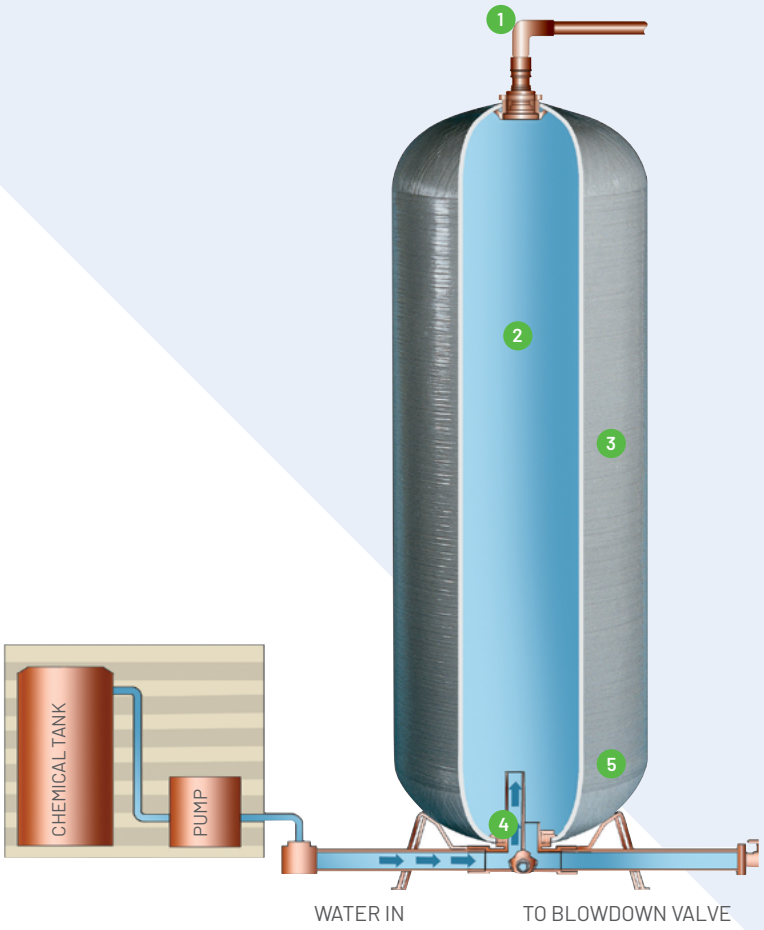
APPLICATIONS

- **Contact Tank for Water Treatment**
- **Hydropneumatic** *(with purchased accessories)*

HERE ARE THE FEATURES THAT SET US APART

1. Vacuum breaker required.
2. One piece, seamless inner shell molded of premium, high-density polyethylene which provides impact and corrosion resistance.
3. Miles of fiberglass filament covered with epoxy resin produce superior strength in a light-weight design.
4. Additional drain port.
5. Curved bottom dome design maximizes contact time and facilitates sludge removal.

   1¼" socket inlet/outlet PVC pipe connections offer maximum application flexibility.



SPECIFICATIONS – CLASSIC

Quick Connect Model	Capacity gal / liter	Maximum Operating Pressure PSI / kPa / bar	Diameter* inch / cm	Overall Height* inch / cm	Height* inlet/outlet to floor inch / cm	System Connection		Assembly Weight* lb / kg
						TOP	BOTTOM	
UT-30 / WM-UT-110 / CE	30 / 114	75 / 500 / 5.0	16 / 41	44.5 / 113	1.5 / 3.8	1¼" Socket Q.C.	1¼" Socket	25 / 11.3
UT-40 / WM-UT-150 / CE	40 / 151	75 / 500 / 5.0	16 / 41	57.25 / 145	1.5 / 3.8	1¼" Socket Q.C.	1¼" Socket	28 / 12.7
UT-40SQ / WM-UT-150-SQ / CE	40 / 151	75 / 500 / 5.0	21 / 53	36 / 91	2 / 5.1	1¼" Socket Q.C.	1¼" Socket	33 / 15.0
UT-80 / WM-UT-300 / CE	80 / 303	75 / 500 / 5.0	21 / 53	62.75 / 159	2 / 5.1	1¼" Socket Q.C.	1¼" Socket	43 / 19.5
UT-120 / WM-UT-450 / CE	120 / 454	75 / 500 / 5.0	24 / 61	72.25 / 186	2 / 5.1	1¼" Socket Q.C.	1¼" Socket	63 / 28.6

Note: *Maximum external operating temperature 120°F (49°C). Maximum internal operating temperature 100°F (38°C). Minimum operating temperature 40°F (4°C). Minimum operating temperature 40°F (4°C).*
**Diameter, height and weight may vary slightly without notice.*

ACCESSORIES
(For Hydropneumatic Conversion)

(Consult factory for correct size)	Air Volume Control Assembly
Part #CH3929-5	Micronizer
Part #CH19426	Vacuum Breaker 1/4" NPT


Air Volume Control Assembly


Micronizer


Vacuum Breaker

Note: *Flexible connectors must be installed between hard piping and tank openings. These pressure vessels are rated for an internal negative pressure of 5" HG (17 Pa) vacuum below atmospheric. If negative pressure could ever exceed 5" Hg (17 Pa), an adequate vacuum breaker must also be properly installed. Failure to install flex connection properly, or improper installation of a vacuum breaker when required, may void the warranty.*

RESIDENTIAL TANK REPLACEMENT GUIDE

Pentair WellMate	WM-01	WM-02	WM-4/ WM0060 QC	WM-6LP/ WM-LP-075 QC	WM-6/ WM0075 QC	WM-9/ WM0120 QC	WM-10LP/ WM-LP-130 QC	WM-11/ WM0130 QC	WM-12 WM0150 QC	WM-14WB WM0180 QC	WM-20WB WM0235 QC	WM-23 WM0300 QC	WM-25WB WM0330 QC	WM-35WB WM0450 QC
Gallons	**2**	**5**	**14**	**19**	**20**	**30**	**34**	**35**	**40**	**47**	**60**	**80**	**87**	**119**
Champion Amtrol	CH1001	CH1002	CH3001	n/a	CH4202	CH8205	n/a	n/a	CH8205	CH10050	CH12051	n/a	CH17255	CH22050
ProLine Amtrol	CA1001	CA3002	CA3001	n/a	CA4202	CA8205	n/a	n/a	CA10050	CA10050	CA12051	n/a	CA17002	CA22050
Well-Flow Amtrol	WF-6	WF-15	WF-45	n/a	WF60	WF100	n/a	n/a	n/a	WF140	WF200	n/a	WF260	WF360
WellXTrol Amtrol	WX-101	WX-102	WX-201	n/a	WX-202	WX-205	n/a	n/a	WX-250	WX-250	WX-251	n/a	WX-255	WX-350
Clayton Mark	CM1001	CM1002	CM-200	n/a	CM-202	CM-203	n/a	n/a	n/a	CM-250	CM-251	n/a	CM-302	CM-350
Elbi	D8	D18	DV50	n/a	DV80	n/a	n/a	n/a	n/a	DV200	n/a	n/a	n/a	DV450
Challenger Flexcon	JR6	JR15	PC44	n/a	PC66	PC111	n/a	n/a	PC122	PC144	PC211	n/a	PC266	PC366
Well-Rite Flexcon	JR6	JR15	WR45	n/a	WR60	WR80	n/a	n/a	WR120	WR140	WR200	n/a	WR260	WR360
Flex-Lite	n/a	n/a	FL-5	n/a	FL-7	n/a	n/a	n/a	FL-12	FL-17	FL-22	FL-28	FL-30	FL-40
Aqua Air Goulds	V8P	V15P	V45	n/a	V60	V100	n/a	n/a	n/a	V140	V200	n/a	V250	V350
Myers	MIL2	MIL5	MPD14	n/a	MPD20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	MPD86	MPD119
ConAire Sta-Rite	CA-9	n/a	n/a	n/a	CA-42	n/a	n/a	n/a	n/a	CA-120	n/a	n/a	CA-220	n/a
Pro Source Fiberwound	n/a	n/a	PSC-4-4	n/a	PSC-20-6	PSC-20-9	n/a	PSC-35-10	PSC-40-12	PSC-48-14	PSC-60-20	PSC-80-23	PSC-85-25	PSC-119-35
Vertical Steel Sta-Rite SR	n/a	n/a	PS30-T01	n/a	PSP42T-T02	PSP75T-T03	n/a	n/a	n/a	PSP120-T50	PSP200-T51	n/a	PSP220-T52	PSP320-TR50
Vertical Steel ProSource	PS2-S01	PS5-S02	PS6-S02	n/a	PS19S-T02	PS32-T03	n/a	n/a	PS35-T05	PS50-T50	PS62-T51	n/a	PS85-T52	PS119-TR50
Vertical Steel ProSource PLUS	n/a	n/a	n/a	n/a	PSP19T-02 PSP19S-T02	PSP32-T03	n/a	n/a	PSP35-T05	PSP50-T50	PSP62-T51	n/a	PSP85-T52	PSP119-TR50
Perma Tank State	PIL-2	PIL-5	PAD-14	n/a	PAD-20	n/a	n/a	n/a	n/a	PAD-52	n/a	n/a	PAD-86	PAD-119

TWO OF THE MOST COMMON HYDROPNEUMATIC ANWENDUNGEN

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 gallons/liters per minute (GPM/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	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

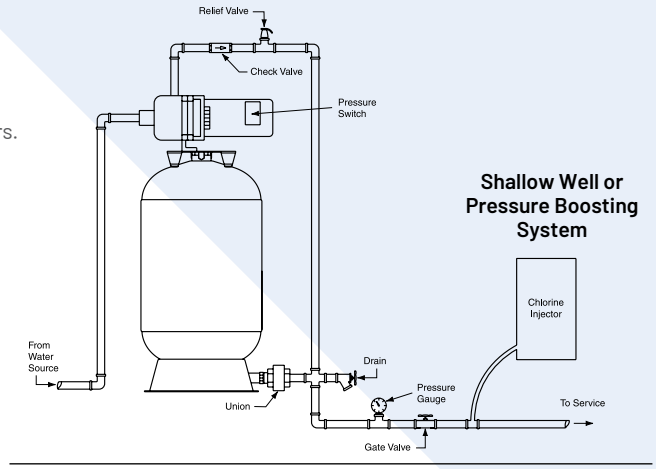
Calculating Tank Size

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

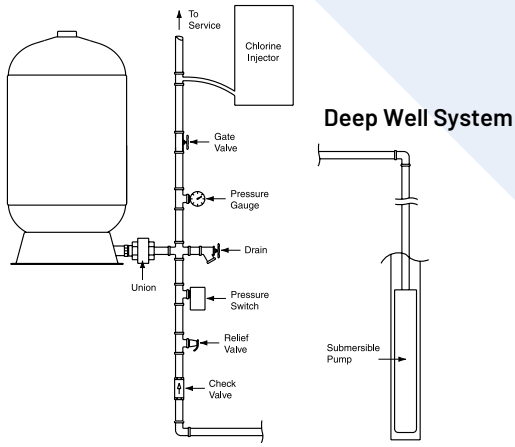
EXAMPLE: An application using an 8 GPM pump with a minimum run time of 1 minute and a 30-50 PSIG system pressure range;

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

*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.



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.

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