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› [Wellmate WM-6 / WM0075 QC Captive Air and Retention Fiberglass Tank User Manual](#)

## Wellmate WM-6 / WM0075 QC

# Wellmate WM-6 / WM0075 QC Captive Air and Retention Fiberglass Tank User Manual

Model: WM-6 / WM0075 QC

Brand: Wellmate

## 1. INTRODUCTION AND OVERVIEW

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The WellMate® WM-6 / WM0075 QC Captive Air and Retention Fiberglass Tank is designed for residential and commercial water systems. This composite tank offers superior durability and performance compared to traditional steel tanks. Its fiberglass construction ensures it is impervious to rust, and the epoxy-resin sealed outer shell resists dents and scratches, minimizing maintenance requirements. Weighing significantly less than steel tanks, it facilitates quicker and more cost-effective installation. The lead-free construction prevents the introduction of undesirable chemicals into the water, ensuring water quality.



Figure 1: Wellmate WM-6 / WM0075 QC Captive Air and Retention Fiberglass Tank.

## 2. KEY FEATURES

- **Quick Connect Design:** Features a quick connect system and a replaceable air cell for easier field servicing and maintenance.
- **Enhanced Drawdown:** Provides greater drawdown capacity compared to similarly sized steel tanks, leading to improved system efficiency.
- **Corrosion Resistance:** Constructed from composite materials, preventing rust in corrosive environments, which is particularly beneficial in coastal regions.
- **Lightweight Construction:** Significantly lighter than steel tanks, enabling quicker and less costly installation, often requiring only one person.
- **Maintenance-Free Exterior:** The epoxy-resin sealed outer shell resists dents and scratches, eliminating the need for touch-ups.
- **Lead-Free:** Ensures no undesirable chemicals or elements are introduced into the water.



Figure 2: Internal components of the Wellmate tank, illustrating the durable interior air cell, seamless inner shell, fiberglass outer shell, sturdy polymeric base, and bottom inlet/outlet drain.

## 3. SETUP AND INSTALLATION

Installation of the Wellmate WM-6 / WM0075 QC tank is designed to be straightforward due to its lightweight and quick-connect features. While specific plumbing configurations may vary, the general steps involve:

1. **Site Preparation:** Select a level, stable surface capable of supporting the tank's weight when full. Ensure adequate space for future maintenance.
2. **System Shut-off:** Turn off the main water supply and drain the existing system pressure.
3. **Connection:** Utilize the quick-connect fittings to integrate the tank into your existing plumbing system. Ensure all connections are secure and leak-free. It is recommended to apply plumber's grease to O-rings for easier connection and sealing.
4. **Pressure Setting:** The tank comes pre-pressurized. Verify the pre-charge pressure using a pressure gauge and adjust it to match your system's cut-in pressure, typically 2 PSI below the pump's cut-in pressure.
5. **System Start-up:** Slowly open the main water supply valve to allow the tank to fill and the system to re-pressurize. Check for any leaks.

*Note:* Depending on your specific setup, additional fittings may be required. Consult a qualified plumber if you are unsure

about any installation steps.

## 4. OPERATION

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Once installed and properly pressurized, the Wellmate WM-6 / WM0075 QC tank operates automatically as part of your water pressure system. It stores pressurized water, reducing the frequency of pump cycles and extending the life of your well pump.

- The tank's internal air cell maintains a cushion of air that compresses as water enters the tank and expands as water is drawn from the system.
- This action ensures a consistent water pressure supply and minimizes pump starts and stops.
- Regularly monitor your system's pressure gauge to ensure it operates within the desired range.

## 5. MAINTENANCE

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The Wellmate WM-6 / WM0075 QC tank is designed for minimal maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Air Charge Check:** Annually, or if you notice frequent pump cycling, check the tank's air pre-charge pressure.
  - a. Turn off the pump and drain all water from the system by opening a faucet.
  - b. Use a tire pressure gauge to check the air valve on top of the tank.
  - c. Add or release air using a bicycle pump or air compressor to match your system's cut-in pressure (typically 2 PSI below the pump's cut-in pressure).
  - d. Close the faucet and restart the pump.
- **Visual Inspection:** Periodically inspect the tank for any signs of external damage, leaks, or corrosion. The fiberglass construction is highly resistant to these issues, but a quick check is always prudent.
- **Air Cell Replacement:** The internal air cell is replaceable, extending the life of the tank. If the air cell ruptures (indicated by water coming out of the air valve when checked), it can be serviced in the field. Consult the manufacturer's guidelines or a professional for replacement procedures.

## 6. TROUBLESHOOTING

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This section addresses common issues that may arise with your Wellmate pressure tank.

Problem	Possible Cause	Solution
Pump cycles too frequently (short cycling)	Low air pre-charge in tank; ruptured air cell; waterlogged tank.	Check and adjust air pre-charge (see Maintenance section). If water comes out of the air valve, the air cell may be ruptured and requires replacement.
No water or low water pressure	Pump not running; well running dry; clogged pipes/filters; pressure switch issue.	Check pump power and circuit breaker. Verify well water level. Inspect and clean filters. Consult a professional for pressure switch diagnosis.
Water leaking from tank connections	Loose fittings; damaged O-rings or seals.	Tighten connections. Inspect and replace O-rings or seals if damaged. Ensure proper application of plumber's grease during installation.

If troubleshooting steps do not resolve the issue, contact a qualified professional or Wellmate customer support.

## 7. SPECIFICATIONS

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Detailed specifications for the Wellmate WM-6 / WM0075 QC tank are provided below. These values are critical for proper system design and installation.

Characteristic	Value
Model Number	WM-6 / WM0075 QC
Manufacturer	Wellmate
Material	Fiberglass
Item Weight	26 pounds
Assembled Diameter	16 Inches
Item Package Quantity	1
Date First Available	October 18, 2015

#### WM Series Quick Connect Performance Data

Model Number	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	Pallet QTY.
WM-4 / WM0060 QC	14.5 / 55	125 / 862 / 8.6	4.5 / 17.0	16 / 41	26 / 66	1 3/4 / 4.4	1" male NPT	16.9 / 7.6	9
WM-6 / WM0075 QC	19.8 / 75	125 / 862 / 8.6	6.1 / 34.4	16 / 41	32 / 81	1 3/4 / 4.4	1" male NPT	20.85 / 9.5	9
WM-9 / WM0120 QC	29.5 / 112	125 / 862 / 8.6	9.1 / 34.4	16 / 41	44 / 112	1 3/4 / 4.4	1" male NPT	28.80 / 13.0	9
WM-12 / WM0150 QC	40.3 / 153	125 / 862 / 8.6	12.5 / 47.3	16 / 41	57 / 145	1 3/4 / 4.4	1" male NPT	35.05 / 15.9	9
WM-14WB / WM0180 QC	47.1 / 178	125 / 862 / 8.6	14.6 / 55.3	21 / 53	41.3 / 105	2 1/4 / 5.7	1 1/4" male NPT	46.27 / 21.0	4
WM-20WB / WM0235 QC	60.0 / 227	125 / 862 / 8.6	18.5 / 70.0	24 / 61	41.5 / 105	2 1/4 / 5.7	1 1/4" male NPT	52.87 / 24.0	4
WM-23 / WM0300 QC	79.6 / 301	125 / 862 / 8.6	24.6 / 93.1	21 / 53	62 / 157	2 1/4 / 5.7	1 1/4" male NPT	71.07 / 32.3	4
WM-25WB / WM0330 QC	86.7 / 328	125 / 862 / 8.6	26.8 / 101.5	24 / 61	55 1/4 / 140	2 1/4 / 5.7	1 1/4" male NPT	77.22 / 35.0	4
WM-35WB / WM0450 QC	119.7 / 453	125 / 862 / 8.6	37.0 / 140.1	24 / 61	74 1/4 / 189	2 1/4 / 5.7	1 1/4" male NPT	102 / 46.4	N/A

Figure 3: Wellmate WM Series Quick Connect Performance Data, including capacity, pressure, drawdown, dimensions, and weight for various models.

## 8. WARRANTY AND SUPPORT

Wellmate tanks are known for their durability and come with an option for an extended labor warranty for homeowners. For specific warranty terms and conditions, including coverage details and duration, please refer to the official warranty documentation provided with your product or visit the Wellmate official website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, installation assistance, or troubleshooting beyond the scope of this manual, please contact Wellmate customer service or a certified Wellmate dealer. Contact information can typically be found on the manufacturer's website or product packaging.

