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Model: WM-9 / WM0120

INTRODUCTION

This user manual provides essential information for the safe and efficient installation, operation, and maintenance of your Wellmate WM-9 / WM0120 Classic Fiberglass Tank. Please read this manual thoroughly before attempting any installation or service to ensure proper function and longevity of the product. Retain this manual for future reference.

PRODUCT OVERVIEW

The Wellmate WM-9 / WM0120 Classic Fiberglass Tank is a durable, corrosion-resistant pressure tank designed for residential and commercial water systems. Its advanced composite construction offers significant advantages over traditional steel tanks, including lighter weight, easier installation, and reduced maintenance requirements. Key features include a replaceable air cell and a robust fiberglass outer shell.



This image illustrates the internal structure of the Wellmate Classic Fiberglass Tank. It highlights the durable interior air cell made of heavy-gauge engineered polymer, the seamless inner shell of high-density polyethylene, the outer shell of continuous fiberglass strands sealed with epoxy resin, the sturdy molded polymeric base, and the bottom inlet/outlet drain of high-impact PVC.

SPECIFICATIONS

The Wellmate WM-9 / WM0120 tank offers specific performance characteristics detailed below. For a comprehensive comparison across the WM series, refer to the performance data table.

WM Series Classic 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 C	14.5 / 55	125 / 862 / 8.6	4.5 / 17.0	16 / 41	26 / 66	1 3/4 / 4.4	1" male NPT	14.5 / 6.6	9
WM-6 / WM0075 C	19.8 / 75	125 / 862 / 8.6	6.1 / 34.4	16 / 41	32 / 81	1 3/4 / 4.4	1" male NPT	17.75 / 8.1	9
WM-9 / WM0120 C	29.5 / 112	125 / 862 / 8.6	9.1 / 34.4	16 / 41	44 / 112	1 3/4 / 4.4	1" male NPT	24.75 / 11.2	9
WM-12 / WM0150 C	40.3 / 153	125 / 862 / 8.6	12.5 / 47.3	16 / 41	57 / 145	1 3/4 / 4.4	1" male NPT	65.7 / 29.8	9
WM-14WB / WM0180 C	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	50 / 22.7	4
WM-20WB / WM0235 C	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	72.75 / 33.0	4
WM-23 / WM0300 C	79.6 / 301	125 / 862 / 8.6	24.6 / 93.1	21 / 53	52 / 157	2 1/4 / 5.7	1 1/4" male NPT	43 / 19.5	4
WM-25WB / WM0330 C	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	72.75 / 33.0	4
WM-35WB / WM0450 C	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

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.

This table provides detailed performance data for various Wellmate WM Series tanks, including model number, capacity (gallons/liters), maximum operating pressure (psi/kPa/bar), drawdown, diameter, overall height, inlet/outlet height, system connection type, assembly weight, and pallet quantity. The WM-9 / WM0120 model has a capacity of 29.5 gal / 112 LTR, maximum operating pressure of 125 psi / 862 kPa / 8.6 bar, and an overall height of 44 inches / 112 cm.

- **Model:** WM-9 / WM0120
- **Capacity:** 29.5 gallons / 112 liters
- **Maximum Operating Pressure:** 125 psi (862 kPa / 8.6 bar)

- **Material:** Fiberglass
- **Item Weight:** 24.8 pounds
- **Assembled Diameter:** 16 Inches
- **Manufacturer:** Wellmate
- **Date First Available:** April 18, 2018

INSTALLATION

The Wellmate WM-9 / WM0120 tank is designed for quicker and less costly installation compared to traditional steel tanks. However, proper installation is crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified professional in accordance with all local plumbing codes and regulations. Ensure the tank is placed on a level, stable surface and that all connections are secure and leak-free. Do not over-pressurize the tank during initial setup.

OPERATION

The Wellmate WM-9 / WM0120 tank functions as a crucial component in your water pressure system, storing water under pressure to provide a consistent flow and reduce pump cycling. Once properly installed and charged, the tank operates automatically with your well pump system. Monitor your system's pressure gauge regularly to ensure it operates within the recommended range. Avoid tampering with the factory-set air charge unless performing maintenance as instructed.

MAINTENANCE

Wellmate tanks are designed for minimal maintenance. A key feature is the replaceable air cell, which assures easier field servicing should it ever be required. Regular maintenance should include:

- **Annual Air Charge Check:** Verify the tank's air pre-charge annually using a pressure gauge. The pre-charge pressure should be set according to your pump's cut-in pressure, typically 2 PSI below the pump's cut-in setting.
- **Visual Inspection:** Periodically inspect the tank for any signs of external damage, leaks, or corrosion.
- **Connection Integrity:** Check all plumbing connections for tightness and signs of leaks.

For detailed instructions on replacing the air cell or other specific maintenance procedures, consult a qualified technician or the official Wellmate service guide.

TROUBLESHOOTING

If you experience issues with your water pressure system, consider the following common troubleshooting steps:

- **Low Water Pressure:** Check the tank's air pre-charge. A low pre-charge can lead to reduced system pressure. Also, inspect for any leaks in the plumbing system.
- **Pump Short Cycling:** If your pump turns on and off frequently, it may indicate a loss of air pre-charge in the tank or a ruptured air cell. Verify the air charge and inspect the air cell.
- **Waterlogged Tank:** A tank that feels heavy and contains water when the system is depressurized likely has a compromised air cell. This requires air cell replacement.

For persistent problems or issues beyond basic troubleshooting, contact a certified well system technician.

WARRANTY INFORMATION

Wellmate offers an extended labor warranty option for homeowners, in addition to the standard product warranty. For complete details regarding warranty coverage, terms, and conditions, please refer to the official warranty documentation provided with your product or visit the Wellmate official website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, parts, or service inquiries, please contact your authorized Wellmate dealer or visit the official Wellmate website for support resources and contact information. When contacting support, please have your product model number (WM-9 / WM0120) and date of purchase readily available.