

## Manchester 302419

# Manchester Tank 302419 Vertical Air Receiver Tank User Manual

**Brand:** Manchester

**Model:** 302419

## 1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Manchester Tank 302419 Vertical Air Receiver Tank. This tank is designed and constructed in accordance with ASME Section VIII Div-I Code for compressed air storage use, ensuring high standards of safety and performance. It is "U" Stamped and registered with the National Board of Pressure Vessel Inspectors.

### Key Features:

- 80 Gallon Capacity
- Includes Base Ring & Top Plate
- ASME Rated Tank
- Maximum Allowable Working Pressure (MAWP): 200 PSI



**Figure 1.1:** Manchester Tank 302419 Vertical Air Receiver Tank. This image displays the grey vertical air receiver tank with its base ring and top plate, designed for compressed air storage.

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions can result in serious injury, death, or property damage. Always adhere to local codes and regulations.

- Do not exceed the Maximum Allowable Working Pressure (MAWP) of 200 PSI.
- Ensure the tank is installed in a well-ventilated area.
- Regularly inspect the tank for signs of corrosion, damage, or leaks.
- Always drain condensate from the tank regularly to prevent corrosion and maintain tank integrity.
- Do not modify the tank in any way. Any modifications will void the warranty and could lead to dangerous conditions.
- Only qualified personnel should perform installation, maintenance, and repairs.
- Install a pressure relief valve and pressure gauge as required by local codes and ASME standards.

## 3. UNPACKING AND INSPECTION

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Upon receiving your Manchester Tank, carefully inspect the packaging for any signs of shipping damage.

1. Remove the tank from its packaging.
2. Thoroughly inspect the tank for any dents, scratches, or other physical damage.
3. Verify that all components listed in the "What's in the Box" section are present.
4. If any damage or missing parts are found, contact your supplier immediately before proceeding with installation.

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of the air receiver tank. Installation must comply with all applicable national, state, and local codes, including ASME Boiler and Pressure Vessel Code.

- **Location:** Install the tank on a level, stable, and non-combustible surface capable of supporting the tank's

weight when full. Ensure adequate clearance for maintenance and inspection.

- **Ventilation:** The installation area must be well-ventilated to prevent heat buildup and ensure proper air circulation.
- **Connections:** Connect the air inlet and outlet lines using appropriate fittings and piping. Ensure all connections are airtight and secure.
- **Safety Devices:** Install a properly sized and rated pressure relief valve and a pressure gauge on the tank. These devices are critical for safe operation and are required by code.
- **Drain Valve:** Ensure the condensate drain valve at the bottom of the tank is accessible for regular draining.
- **Anchoring:** Secure the tank to the floor or foundation using appropriate anchoring methods to prevent tipping, especially in seismic zones.

## 5. OPERATING INSTRUCTIONS

Once installed, the air receiver tank is designed for straightforward operation as part of a compressed air system.

1. **Initial Startup:** Before introducing air, ensure all connections are tight and the pressure relief valve is correctly installed and functioning.
2. **Pressurization:** Slowly introduce compressed air into the tank, monitoring the pressure gauge to ensure it does not exceed the MAWP of 200 PSI.
3. **Normal Operation:** The tank will store compressed air, providing a stable supply and reducing compressor cycling.
4. **Condensate Draining:** Regularly drain accumulated condensate from the tank. The frequency depends on humidity and usage, but daily draining is recommended for most applications. Open the drain valve until all water is expelled, then close it securely.
5. **Shutdown:** To depressurize the tank, shut off the air supply and slowly open a bleed valve or use the pressure relief valve (if designed for manual operation) to release air.

## 6. MAINTENANCE

Regular maintenance is essential to ensure the longevity and safe operation of your air receiver tank.

- **Daily:** Drain condensate from the tank.
- **Weekly/Monthly:** Inspect the exterior of the tank for any signs of corrosion, dents, or other damage. Check all connections for leaks. Test the pressure relief valve according to manufacturer instructions.
- **Annually:** A thorough internal and external inspection by a qualified inspector is recommended, especially in jurisdictions where it is required by law. Check for internal corrosion, pitting, or scale buildup.
- **Cleaning:** Keep the exterior of the tank clean and free of debris. Do not use harsh chemicals that could damage the paint or tank material.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pressure not holding in tank	Leaking connections or faulty drain valve.	Check all pipe connections for leaks using soapy water. Tighten or replace fittings as needed. Ensure drain valve is fully closed and not leaking.

Problem	Possible Cause	Solution
Excessive condensate buildup	Infrequent draining or high humidity.	Increase the frequency of condensate draining. Consider installing an automatic drain valve or an air dryer upstream.
Tank exterior corrosion	Exposure to moisture or corrosive environment.	Clean and repaint affected areas with appropriate corrosion-resistant paint. Improve ventilation in the installation area.

## 8. SPECIFICATIONS

Attribute	Value
Model Number	302419
Capacity	80 Gallon
Maximum Allowable Working Pressure (MAWP)	200 PSI
Design Code	ASME Section VIII Div-I
Certification	"U" Stamped, National Board Registered
Includes	Base Ring & Top Plate
Manufacturer	Manchester Tank
Item Weight	0.01 ounces (Note: This weight seems incorrect for an 80-gallon tank, likely a data entry error. Refer to product documentation for actual weight.)
Date First Available	September 1, 2011

## 9. WHAT'S IN THE BOX


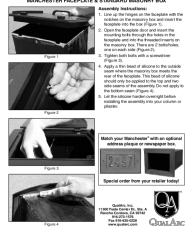

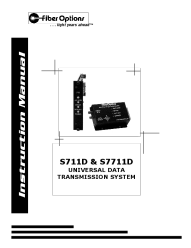


- Manchester Tank 302419 Vertical Air Receiver Tank
- Base Ring
- Top Plate

## 10. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact Manchester Tank directly. Ensure you have your model number (302419) and purchase date available when contacting support.

Contact information for Manchester Tank can typically be found on their official website or on the product's packaging.

## Related Documents - 302419

	<p><a href="#">University of Manchester SALC Postgraduate Guide 2025</a></p> <p>Welcome to the University of Manchester's School of Arts, Languages and Cultures (SALC) Postgraduate Guide for 2025. Discover essential information for new students, including academic support, student life, campus resources, and services.</p>
	<p><a href="#">Manchester Faceplate &amp; Standard Masonry Box Assembly Instructions</a></p> <p>Step-by-step assembly instructions for the QualArc Manchester faceplate and standard masonry box, including guidance on using silicone adhesive and optional accessories.</p>
	<p><a href="#">Metrolink Access Guide: Your Guide to Accessible Tram Travel in Greater Manchester</a></p> <p>A comprehensive guide to Metrolink's accessibility features, helping passengers with specific needs plan and enjoy their tram journeys in Greater Manchester. Covers planning, tickets, passes, and onboard accessibility.</p>
	<p><a href="#">Fiber Options S711D &amp; S7711D Universal Data Transmission System Instruction Manual</a></p> <p>Comprehensive instruction manual for Fiber Options S711D and S7711D series fiber optic universal data transmission systems, covering general information, installation, module setup, data translation, alarm functions, connections, interface specifications, RS485 application notes, test mode, LED operation, and technical support.</p>
	<p><a href="#">Manual de Usuario Estufa Pellets HERGÓM Heritage Manchester: Instalación, Mantenimiento y Uso</a></p> <p>Descubra cómo instalar, mantener y usar de forma segura y eficiente su estufa de pellets HERGÓM Heritage/Manchester. Guía completa para un calor limpio y ecológico.</p>
	<p><a href="#">University of Manchester SALC Postgraduate Welcome Guide   MA Egyptology</a></p> <p>Welcome to the University of Manchester's School of Arts, Languages and Cultures (SALC) postgraduate program. This guide provides essential information for new students, including academic support, campus life, registration, and the MA Egyptology course.</p>

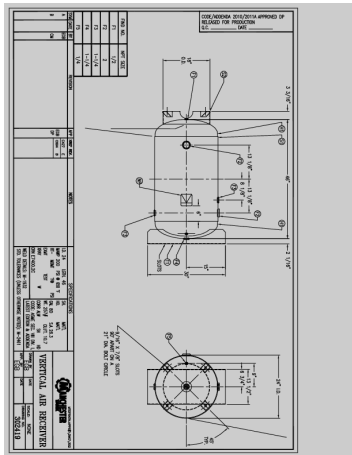


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