



[Manuals.plus](#) /

› [Campbell Hausfeld](#) /

› Campbell Hausfeld Surge Air Storage Tank - 30 Gallon, Horizontal, Model# AR8021 Instruction Manual

## Campbell Hausfeld AR8021

# Instruction Manual

## CAMPBELL HAUSFELD SURGE AIR STORAGE TANK

Model: AR8021

### 1. Product Overview

---

The Campbell Hausfeld ASME-certified, 30-gallon air storage tank (AR8021) is designed to provide additional storage capacity for compressed air, particularly useful during peak-demand situations in pneumatic processes. This tank enhances the overall capacity of your air system, enabling more efficient completion of tasks. Furthermore, its integration helps to reduce the frequency of the air compressor cycling on and off, thereby minimizing wear and extending the lifespan of your air system. This product is manufactured in the U.S.A.



Figure 1: Campbell Hausfeld 30-gallon horizontal air storage tank. This image shows the dark-colored cylindrical tank, designed to store compressed air, with multiple ports on its top and sides for connections, and sturdy base supports for stable placement.

## 2. Safety Information

---

Always prioritize safety when installing, operating, or maintaining the air storage tank. Failure to follow these instructions could result in serious injury or property damage.

- **Pressure Hazard:** This tank operates under high pressure. Never exceed the maximum working pressure specified on the tank's data plate.
- **Professional Installation:** Installation should be performed by qualified personnel in accordance with all local and national codes and regulations.
- **Regular Inspection:** Periodically inspect the tank for signs of corrosion, dents, or other damage. Do not use a damaged tank.
- **Drain Condensate:** Regularly drain accumulated moisture from the tank to prevent internal corrosion and maintain tank integrity.
- **Ventilation:** Ensure adequate ventilation in the area where the tank is installed.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, such as safety glasses, when working with compressed air systems.

## 3. Setup and Installation

---

Proper installation is crucial for the safe and efficient operation of your air storage tank.

1. **Location:** Select a stable, level, and well-ventilated location for the tank. Ensure it is protected from extreme temperatures and direct sunlight.
2. **Mounting:** Securely mount the tank using its integrated base supports. Ensure all mounting hardware is appropriate for the tank's weight and the mounting surface.

3. **Connections:** Connect the tank to your air compressor system using appropriate high-pressure rated hoses and fittings. Ensure all connections are tight and leak-free.
4. **Pressure Relief Valve:** Install a properly sized and rated pressure relief valve on the tank. This valve is a critical safety device and must be functional.
5. **Drain Valve:** Ensure the drain valve at the bottom of the tank is accessible for regular condensate draining.
6. **Leak Check:** After installation, pressurize the tank and check all connections for leaks using a soapy water solution. Bubbles indicate a leak.

## 4. Operating Instructions

---

The air storage tank operates as an extension of your compressed air system.

- **Charging:** Once connected to your air compressor, the tank will automatically fill to the pressure set by your compressor's pressure switch.
- **Monitoring:** Periodically monitor the pressure gauge (if installed) to ensure the tank is operating within safe limits.
- **Condensate Draining:** *Crucial for tank longevity.* Open the drain valve at the bottom of the tank daily or after each use to release accumulated moisture. Close the valve securely after draining.

## 5. Maintenance

---

Regular maintenance ensures the safe and efficient operation of your air tank.

- **Daily:** Drain condensate from the tank.
- **Weekly/Monthly:**
  - Inspect the exterior of the tank for signs of rust, corrosion, dents, or other physical damage.
  - Check all connections and fittings for leaks.
  - Test the pressure relief valve to ensure it is not stuck and operates freely. Refer to the valve manufacturer's instructions for proper testing.
- **Annually:** A qualified technician should perform a thorough inspection of the tank and its components.

*Do not attempt to repair a damaged tank. Replace it immediately if any structural integrity issues are found.*

## 6. Troubleshooting

---

This section addresses common issues you might encounter with your air storage tank.

Problem	Possible Cause	Solution
Tank not holding pressure	Loose connections or fittings; faulty drain valve; damaged tank.	Check all connections for leaks with soapy water and tighten as needed. Ensure drain valve is fully closed. Inspect tank for damage; replace if compromised.
Excessive moisture in air lines	Condensate not being drained regularly.	Drain the tank daily or after each use. Consider installing an air dryer if moisture remains an issue.
Pressure relief valve activating frequently	Compressor pressure setting too high; faulty pressure switch on compressor; faulty relief valve.	Verify compressor pressure setting. Consult compressor manual for pressure switch adjustment/replacement. Replace faulty relief valve immediately.

## 7. Specifications

Attribute	Value
Manufacturer	Campbell Hausfeld
Model Number	AR8021
Capacity	30 Gallon
Item Weight	120 pounds
Package Dimensions	37 x 18 x 16 inches
ASIN	B001DSLLB0
Date First Available	September 1, 2004

## 8. Warranty and Support

For specific warranty information regarding your Campbell Hausfeld AR8021 air storage tank, please refer to the documentation included with your purchase or visit the official Campbell Hausfeld website. For technical assistance, parts, or service inquiries, please contact Campbell Hausfeld customer support directly.

You can often find support contact information on the manufacturer's website or through the retailer where the product was purchased. For general inquiries, you may visit the [Campbell Hausfeld Store on Amazon](#).



© 2024 Campbell Hausfeld. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.