

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



# Portable Hand-held Air Compressor

## Description

Portable oilless air compressors are for home and workshop use. All models are equipped with regulators, ball bearings and motors with automatic overload protection.

## Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

**▲ DANGER** Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**▲ WARNING** Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**▲ CAUTION** Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**▲ NOTICE** Notice indicates important information, that if not followed, may cause damage to equipment.

## Unpacking

After unpacking the unit, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service. In case of questions, damaged or missing parts, please call 1-800-543-6400 for customer assistance.

Have the serial number, model number, and parts list (with missing parts circled before calling).



**DO NOT RETURN THE PRODUCT TO THE RETAILER!**

Record the Model No., Serial No. and date of purchase located on the base below the pump in the space below.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Date of purchase \_\_\_\_\_

Retain these numbers for future reference.

**▲ WARNING** Do not operate unit if damaged during shipping, handling or use. Damage may result in bursting and cause injury or property damage.

## General Safety

Since the air compressor and other components (material pump, spray guns, filters, lubricators, hoses, etc.) used, make up a high pressure pumping system, the following safety precautions must be observed at all times:

1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Follow all local electrical and safety codes as well as in the US, National Electrical Codes (NEC) and Occupational Safety and Health Act (OSHA).



## ▲ DANGER

### Breathable Air Warning

This compressor/pump is not equipped and should not be used "as is" to supply breathing quality air. For any application of air for human consumption, the air compressor/pump will need to be fitted with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1 - 1966, OSHA 29 CFR 1910. 134, and/or Canadian Standards Associations (CSA).

**DISCLAIMER OF WARRANTIES**  
In the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties shall be voided, and Campbell Hausfeld disclaims any liability whatsoever for any loss, personal injury or damage.

3. Only persons well acquainted with these rules of safe operation should be allowed to use the compressor.
4. Keep visitors away and NEVER allow children in the work area.
5. Wear safety glasses and use hearing protection when operating the pump or unit.
6. Do not stand on or use the pump or unit as a handhold.



## Portable Hand-held Air Compressor

### General Safety (Con't)

7. Before each use, inspect compressed air system and electrical components for signs of damage, deterioration, weakness or leakage. Repair or replace defective items before using.
8. Check all fasteners at frequent intervals for proper tightness.

#### ⚠ WARNING

Motors, electrical equipment and controls can cause electrical arcs that will ignite a flammable gas or vapor. Never operate or repair in or near a flammable gas or vapor. Never store flammable liquids or gases in the vicinity of the compressor.



#### ⚠ CAUTION

Compressor parts may be hot even if the unit is stopped.



9. Keep fingers away from a running compressor; fast moving and hot parts will cause injury and/or burns.
10. If the equipment should start to abnormally vibrate, switch unit OFF and check immediately for the cause. Vibration is generally a warning of trouble.
11. To reduce fire hazard, keep motor exterior free of oil, solvent, or excessive grease.
12. Fast moving air will stir up dust and debris which may be harmful. Release air slowly when draining moisture or depressurizing the compressor system.

**Any misuse of unit could cause property or equipment damage and/or personal injury.**

**⚠ WARNING** Do not leave the compressor unattended while the unit is running.

#### ⚠ WARNING

Never exceed the recommended pressure for any inflatable object. Do not over inflate objects. Over inflation could cause property damage and/or personal injury.



**⚠ WARNING** Always put the car in park; set the emergency brake; and check the wheels before using the compressor or property damage and/or personal injury could occur.

**⚠ CAUTION** Always use a separate pressure gauge to check the actual pressure in tires and in low pressure inflatable objects.

**⚠ NOTE** Do not use compressor on high pressure tires used on large trucks, trailers or tractors. The compressor is not designed to operate for the length of time necessary to inflate these tires.

#### SPRAYING PRECAUTIONS

#### ⚠ WARNING

Do not spray flammable materials in vicinity of open flame or near ignition sources including the compressor unit.



13. Do not smoke when spraying paint, insecticides, or other flammable substances.
14. Use a face mask/respirator when spraying and spray in a well ventilated area to prevent health and fire hazards.
15. Do not direct paint or other sprayed material at the compressor. Locate compressor as far away from the spraying area as possible to minimize overspray accumulation on the compressor.

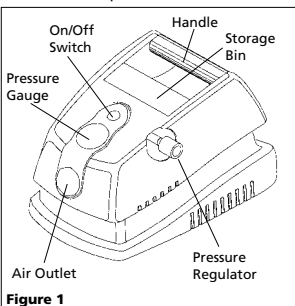


Figure 1

16. When spraying or cleaning with solvents or toxic chemicals, follow

the instructions provided by the chemical manufacturer.

### Location

It is extremely important to use the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 100°F.

**⚠ CAUTION** Do not locate the compressor air inlet near steam, paint spray, sandblast areas or any other source of contamination. This debris will damage the motor.

### Electrical Data

**⚠ CAUTION** This product is for use on a nominal 120 volt circuit. Make sure that product is connected to an outlet having same configuration as plug.

#### WIRING

1. Local electrical wiring codes differ from area to area. Source wiring, plug and protector must be rated for at least the amperage and voltage indicated on motor nameplate, and meet all electrical codes for this minimum.
2. Use a slow blow fuse type T or a circuit breaker.

**⚠ CAUTION** Overheating, short circuiting and fire damage will result from inadequate wiring, etc.

**NOTE:** This compressor can be operated on a 115 volt, 15 amp circuit under the following conditions:

- a. Circuit is not heavily loaded.
- b. Voltage supply is normal.
- c. Extension cords are of the minimum gauge specified in this instruction manual.
- d. Circuit is equipped with a 15 amp circuit breaker or a 15 amp slow blow fuse type T.

## Electrical Data (Con't)

### GROUNDING INSTRUCTIONS

This unit does not need to be grounded.

### EXTENSION CORDS

**▲ NOTICE** *To avoid loss of power and possible overheating, use additional air hose instead of extension cords to reach work area.*

1. Use only an extension cord that has a receptacle that will accept plug on product.
2. Make sure extension cord is in good condition, and heavy enough to carry the current. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
3. Table below shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use next heavier gauge.

**NOTE:** The smaller the gauge number, the heavier the cord.

## Operation

### BREAK-IN PROCEDURE

**▲ CAUTION** *Do not attach air chuck or other tool to open end of hose until start-up has been completed and unit checks OK.*

**IMPORTANT:** Do not operate compressor before reading instructions or damage may result.

1. With power switch OFF, turn regulator knob fully counterclockwise to minimum operating pressure.
2. While unit is still OFF, plug in power cord.
3. Turn switch to ON position and run unit for 5 minutes to break in the pump parts.

**▲ NOTICE** *This unit is a continuously running compressor. Normal operation causes the regulator to vent air.*

### MOISTURE IN COMPRESSED AIR

Moisture in compressed air will form into droplets as it comes from an air compressor pump. When humidity is high or when a compressor is in continuous use for an extended period of time, this moisture will collect in the tank. When using a paint spray or sandblast gun, this water will be carried from the tank through the hose, and out of the gun as droplets mixed with the spray material. **IMPORTANT:** This condensation will cause water spots in a paint job, especially when spraying other than water based paints. If sandblasting, it will cause the sand to cake and clog the gun, rendering it ineffective. A filter in the air line (MP3105), located as near to the gun as possible, will help eliminate this moisture.

4. Attach chuck or other tool to open end of hose. The compressor is now ready to use.

**▲ CAUTION** *The switch should be in the OFF position when connecting or disconnecting the power cord from the electrical outlet.*

### REGULATOR

1. This regulator controls air pressure to the hose and attachment.
2. Turning knob clockwise increases air pressure at outlet.
3. Turning counterclockwise will lower air pressure at outlet.

### Using Selector Guide

The pressure regulator on the unit is used to control the air pressure output. A low number, such as 10, indicates low pressure. A high number, such as 100, indicates high pressure.

The selector guide is located on top of the unit for convenience. Locate the number across from the desired usage. For example: To inflate a basketball, the pressure setting is 5 - 15. Turn the regulator until gauge reads the desired pressure. Inflate the ball. The unit will automatically "bleed off" any excess pressure after the ball is inflated.

**▲ CAUTION** *Use care when referencing this guide. Overinflating is possible regardless of the suggested regulator setting. Some variance may be necessary. Always try the lowest suggested number first. If desired results are not achieved, use the next*

*higher number. Check the pressure with a separate pressure gauge.*

## Wall Mounting

This compressor is designed with an option to be hung on a wall or pegboard for convenient storage. It can also be operated while in the hanging position if one of the following conditions is met:

1. If mounted on a wall, mounting hardware is secured into wood or masonry with suitable fasteners.
2. If mounted on drywall or gypsum board, toggle bolts or mounting anchors are strong enough and are properly secure to resist vibration from the compressor.
3. If mounted on a pegboard, other items hung from the pegboard are secure enough to resist vibration from the compressor.

On the bottom of the compressor are two keyhole-shaped mounting points that are spaced 4 inches apart. The compressor is designed to be hung with the hose outlet pointed downward. When installing on pegboard, hang from 1/4 or 1/8 inch hooks spaced 4 inches apart. When hanging from the wall, accurately space the fasteners exactly 4 inches apart horizontally or the compressor will not line up with the fasteners. The compressor is designed to hang from the head of the screw or nail.

### Extension cords for 120V/5 Amp Unit

Length of Cord (ft)	25	50	100
Gauge of Cord	18	16	14

## Portable Hand-held Air Compressor

### Wall Mounting (Con't)

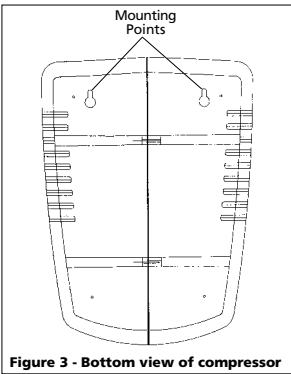


Figure 3 - Bottom view of compressor

### Maintenance

#### ⚠ WARNING

Disconnect power source then release all pressure from the system before



**attempting to install, service, relocate or perform any maintenance.**

The compressor should be checked often for any visible problems and the following maintenance procedures should be performed each time the compressor is used.

1. Turn power OFF and clean dust and dirt from motor, air lines and vent openings.

**IMPORTANT:** Locate unit as far from spraying area as possible.

#### LUBRICATION

**⚠ NOTICE** *This is an oilless type compressor requiring no lubrication.*

#### THERMAL OVERLOAD PROTECTORS

**⚠ CAUTION** *This compressor is equipped with automatic reset thermal overload protectors which will shut off the motors if they become overheated.*

If thermal overload protectors shut motor OFF frequently, look for the following causes.

1. Low voltage.

2. Extended use. Thermal shutdown is normal when compressor is used for extended period of time.
3. Lack of proper ventilation.
4. High ambient temperature.

**⚠ CAUTION** *If the thermal overload protectors are actuated, the motor must be allowed to cool down before start-up is possible. The motor will automatically restart without warning if left plugged into electrical outlet and unit is turned on.*

#### STORAGE

1. When not in use, store hose and compressor in a cool dry place.
2. Disconnect hose and hang open ends down, to allow any moisture to drain.

### Technical Service

For information regarding the operation or repair of this product, please call 1-800-543-6400. If you are calling from Ohio or outside the continental United States, please call 1-513-367-1182.

### Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Compressor will not run	<ol style="list-style-type: none"> <li>1. No electrical power</li> <li>2. Blown fuse</li> <li>3. Breaker open</li> <li>4. Thermal overload(s) open</li> </ol>	<ol style="list-style-type: none"> <li>1. Plugged in? Check fuse/breaker or motor overload</li> <li>2. Replace blown fuse</li> <li>3. Reset, determine cause of problem</li> <li>4. Motor(s) will restart when cool</li> </ol>
Fuses blow / circuit breaker trips	Incorrect size fuse, circuit overloaded	Check for proper fuse, use time-delay fuse. Disconnect other electrical appliances from circuit or operate compressor on its own branch circuit
Thermal overload protector cuts out repeatedly	<ol style="list-style-type: none"> <li>1. Low voltage</li> <li>2. Compressor is being overworked</li> <li>3. Lack of proper ventilation/room temperature too high</li> </ol>	<ol style="list-style-type: none"> <li>1. Check with voltmeter</li> <li>2. Reduce operating time or use a larger compressor</li> <li>3. Move compressor to well ventilated or cooler area</li> </ol>
Knocks, rattles, excessive vibration	Defective pump	Replace compressor
Air output lower than normal / low discharge pressure	<ol style="list-style-type: none"> <li>1. Air leaks in piping or hose (on machine or in outside system)</li> <li>2. Regulator not set correctly</li> <li>3. Pump worn</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace leaking components or tighten as necessary</li> <li>2. Adjust regulator setting</li> <li>3. Replace compressor</li> </ol>
Excessive moisture in discharge air	High humidity	Move to area of less humidity; use air line filter
Compressor runs continuously	This compressor does not shut off when maximum pressure is attained	No action needed

[www.campbellhausfeld.com](http://www.campbellhausfeld.com)



## Portable Hand-held Air Compressor

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### Limited Warranty

1. DURATION: From the date of purchase by the original purchaser as follows: Standard Duty - One Year, Serious Duty - Two Years, Extreme Duty - Three Years.
  2. WHO GIVES THIS WARRANTY (WARRANTOR):  
Campbell Hausfeld / Scott Fetzer Company, 100 Production Drive, Harrison, Ohio, 45030, Telephone: (800) 543-6400
  3. WHO RECEIVES THIS WARRANTY (PURCHASER): The original purchaser (other than for purposes of resale) of the Campbell Hausfeld compressor.
  4. WHAT PRODUCTS ARE COVERED BY THIS WARRANTY: Any Campbell Hausfeld air compressor.
  5. WHAT IS COVERED UNDER THIS WARRANTY: Substantial defects due to material and workmanship with the exceptions noted below.
  6. WHAT IS NOT COVERED UNDER THIS WARRANTY:
    - A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. If this compressor is used for commercial, industrial or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Four cylinder single-stage and two-stage compressors are not limited to a ninety (90) day warranty when used in commercial or industrial applications. Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
    - B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CAMPBELL HAUSFELD PRODUCT. Some States do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
    - C. Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with compressor.
    - D. Pre-delivery service, i.e. assembly, oil or lubricants, and adjustment.
    - E. Items or service that are normally required to maintain the product, i.e. lubricants, filters and gaskets, etc.
    - F. Gasoline engines and components are expressly excluded from coverage under this limited warranty. The Purchaser must comply with the warranty given by the engine manufacturer which is supplied with the product.
  - G. Additional items not covered under this warranty:
    1. All Compressors
      - a. Any component damaged in shipment or any failure caused by installing or operating unit under conditions not in accordance with installation and operation guidelines or damaged by contact with tools or surroundings.
      - b. Pump or valve failure caused by rain, excessive humidity, corrosive environments or other contaminants.
      - c. Cosmetic defects that do not interfere with compressor functionality.
      - d. Rusted tanks, including but not limited to rust due to improper drainage or corrosive environments.
      - e. Electric motors, check valves and pressure switches after the first year of ownership.
      - f. Drain cocks.
      - g. Damage due to incorrect voltage or improper wiring.
      - h. Other items not listed but considered general wear parts.
      - i. Pressure switches, air governors and safety valves modified from factory settings.
    2. Lubricated Compressors
      - a. Pump wear or valve damage caused by using oil not specified.
      - b. Pump wear or valve damage caused by any oil contamination or by failure to follow proper oil maintenance guidelines.
    3. Belt Drive / Direct Drive / Gas Driven Compressors
      - a. Belts.
      - b. Ring wear or valve damage from inadequate filter maintenance.
      - c. Manually adjusted load/unload and throttle control devices.
  7. RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY: Repair or replace, at Warrantor's option, compressor or component which is defective, has malfunctioned and/or failed to conform within duration of the warranty period.
  8. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
    - A. Provide dated proof of purchase and maintenance records.
    - B. Portable compressors or components must be delivered or shipped to the nearest Campbell Hausfeld Authorized Service Center. Freight costs, if any, must be borne by the purchaser.
    - C. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).
  9. WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:
    - A. Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location, and depending on the availability of replacement parts.
    - B. If the purchaser does not receive satisfactory results from the Authorized Service Center, the purchaser should contact Campbell Hausfeld (see paragraph 2).
- Limited Warranty applies in the U.S. and Canada only and gives you specific legal rights. You may also have other rights which vary from State to State or country to country.