

# Instruction Sheet

## Subject: Installations Instructions

**Air Compressor Kit with Change-over Valve and Dump Valve — P.N. 00212135 (120 VAC), P.N. 00214969 (120 VAC), P.N. 00217555 (230 VAC)**

### Important

Read the following warnings before beginning an installation. Failure to do so may result in possible death or serious injury.

### ⚠ Warning

#### To Avoid Serious Injury

- DO** Adhere to all National and Local Plumbing and Electrical Safety Codes.
- DO** Turn "off" incoming electrical service switches when servicing, installing, or repairing equipment.
- DO** Check that all flare fittings on the carbonation tank(s) are tight. This check should be performed with a wrench to ensure a quality seal.
- DO** Inspect pressure on regulators before starting up equipment.
- DO** Protect eyes when working around refrigerants.
- DO** Use caution when handling metal surface edges of all equipment.
- DO** Handle CO<sub>2</sub> cylinders and gauges with care. Secure cylinders properly against abrasion.
- DO** Store CO<sub>2</sub> cylinder(s) in well ventilated areas.
- DO NOT** Throw or drop a CO<sub>2</sub> cylinder. Secure the cylinder(s) in an upright position with a chain.
- DO NOT** Connect the CO<sub>2</sub> cylinder(s) directly to the product container. Doing so will result in an explosion causing possible death or injury. It is best to connect the CO<sub>2</sub> cylinder(s) to a regulator(s).
- DO NOT** Store CO<sub>2</sub> cylinders in temperature above 125°F (51.7°C) near furnaces, radiator or sources of heat.
- DO NOT** Release CO<sub>2</sub> gas from old cylinder.
- DO NOT** Touch refrigeration lines inside units. Some may exceed temperatures of 200°F (93.3°C).

### Important

Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with Federal, State, and Local codes.

### ⚠ Warning

#### Danger of Electric Shock

Disconnect and lock out all electrical power sources before performing service or maintenance on this machine — except when electrical tests are being performed by qualified service personnel.

These instructions cover the installation and initial start-up of the Multiplex Air Compressor Kit. An appropriate 3-wire, 15 amp power receptacle must be provided within 5 ft (152.4 cm) of the left end of the refrigeration unit. This kit is for use with either the Model 44 or Model 50 Fountain Refrigeration Units and any of the Beermaster Units. Refer to appropriate section for instructions.

### GROUNDING INSTRUCTIONS

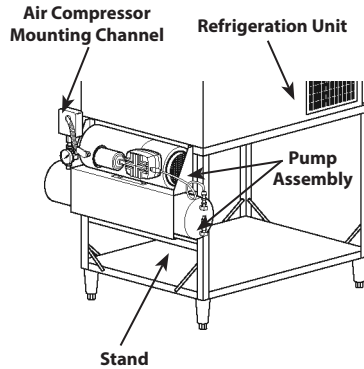
This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

### ⚠ DANGER

Improper installation of the grounding plug can result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to a flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify the plug provided; if it will not fit the outlet, have the proper outlet installed by a qualified electrician. Do not use an extension cord or an adapter plug with this equipment.

### FOUNTAIN SYSTEMS APPLICATIONS



#### Mounting the Air Compressor onto a Multiplex Support Stand

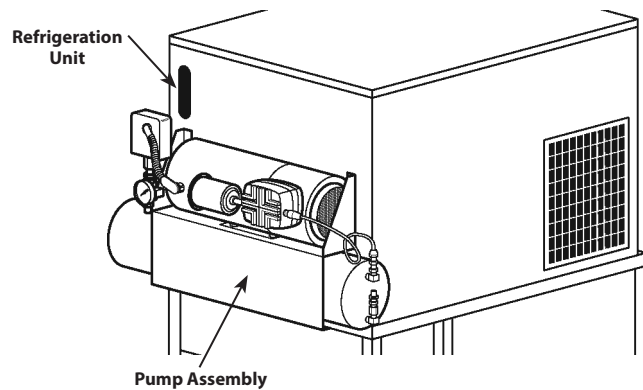
#### Installing the air compressor onto the support stand

1. Mount the air compressor mounting channel to left end of the Multiplex Support Stand with two (2) 1/4"-20 nuts and screws provided with kit (refer to figure above).

NOTE: Compressor may be mounted to the end of the refrigeration unit.

2. Install the air compressor assembly to the support stand and mounting channel with four (4) 1/4"-20 nuts and screws provided with kit (refer to figure above).

NOTE: Do not plug in pump assembly at this time. Shut "off" the main CO<sub>2</sub> supply to refrigeration unit.



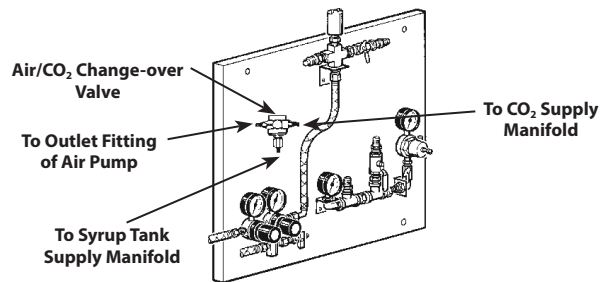
#### Mounting the Air Compressor onto a Multiplex Refrigeration Unit

#### Installing the air compressor onto a refrigeration unit

1. Align the air compressor assembly over the four (4) holes on left end of the Multiplex Refrigeration Unit. Secure to unit using the four (4) 1/4" screws provided in kit (refer to figure above).

NOTE: Do not plug in pump assembly at this time. Shut "off" main CO<sub>2</sub> supply to refrigeration unit.

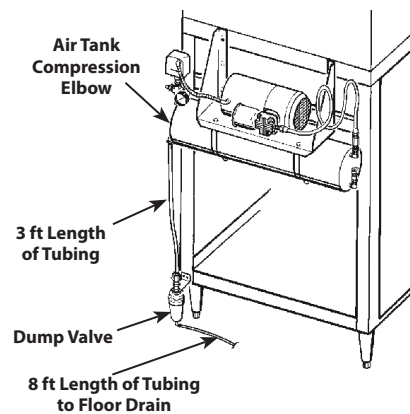
2. Locate the Air/CO<sub>2</sub> Change-over Valve Assembly supplied with kit (P.N. 00212506). Align the mounting bracket of the change-over valve over the mounting holes on the control panel (location for change-over valve will be marked "Air/CO<sub>2</sub> Change-over Valve"). Mount the air/co<sub>2</sub> change-over valve to the panel with the #10-32 screws provided in kit (refer to figure below).



#### CO<sub>2</sub> Control Panel

#### Installing the optional dump valve onto the Multiplex refrigeration unit

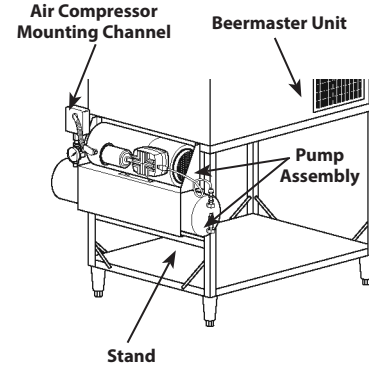
1. Connect the 1/4" line assembly provided in kit (P.N. 00212506) to the flare fitting on right side of air/CO<sub>2</sub> change-over valve. Route the other end of tubing to the CO<sub>2</sub> supply manifold. Trim excess line and connect swivel nut adapter to the remaining end of line assembly. Secure with tab clamp. Connect the line assembly to the CO<sub>2</sub> supply manifold (refer to figure below).



#### Mounting the Dump Valve onto the Multiplex Refrigeration Unit

2. Locate the 4-1/2" section of 1/4" tubing connected at bottom side of change-over valve. Route and connect the remaining end of tubing to the syrup tank supply manifold (refer to figure above).
3. Locate the 12 ft x 1/4" EVA line assembly provided in air compressor kit. Attach the end of this line assembly, with the swivel nut, to the outlet fitting of the air compressor tank. Use 1/4" flare washers at swivel nut connectors. Neatly route tubing under the stand top and to the left side of the control panel. Connect the line assembly with 1/4" elbow x barb (provided in kit P.N. 00212506) to the 1/4" male flare fitting of the air/CO<sub>2</sub> change-over valve (refer to figure above).
4. Locate the dump valve supplied with kit. Mount the dump valve with #10-32 self-tapping screws provided with kit to lower left cross channel of support stand.
5. Locate the 3 ft length of tubing supplied with kit. Neatly route and attach this line from the air tank compression elbow to the shut-off valve compression fitting located on top of the dump valve. Trim tubing to correct length. Tighten compression nuts.
6. Locate the 8 ft length of tubing supplied with kit. Route and connect this line from the 1/4" barb elbow of the dump valve to a floor drain. Place the shut-off valve handle in the "open" position (refer to figure above).
7. Plug the air pump power supply cord into the power receptacle provided on wall. Pump will begin to run immediately and shut "off" when tank pressure reaches approximately 90 psi (6.2 bar). Pump will turn "on" when tank pressure drops to 70 psi (4.8 bar). If not, adjust pressure switch according to instructions located on the inside of pressure switch cover.
8. Turn the air/CO<sub>2</sub> change-over valve to the "Air" position. Check for leaks.

## BEER SYSTEMS APPLICATIONS



### Mounting the Air Compressor onto the Beermaster™ Unit

#### Procedure for installing the air compressor onto a Beermaster™ unit

1. Determine location where the air pump will be installed.

NOTE: Install the air compressor wall mount bracket (if applicable).

2. Install the air compressor in its final location with proper hardware.
3. Mount the low pressure regulator (packed separately) to a convenient location. Attach the 10 ft x 1/4" ID air line (provided with air compressor) to the air pump outlet fitting. Route and connect the remaining end of the air line to the inlet and onto the outlet of the low pressure regulator. Route and connect the remaining end of the tubing to the inlet side of the air filter assembly.
4. Connect one (1) end of the remaining section of the air line to the outlet side of the air filter assembly. Route and connect the opposite end of the air line to the incoming air connection on the left side of the blender.
5. Attach the 10 ft x 3/8" ID drain line to the tank drain fitting and route opposite end to floor drain.
6. Close tank outlet valve and plug air compressor into a 120 VAC outlet (domestic).

NOTE: Allow tank to fill completely and shut "off". Compressor should shut "off" at approximately 70 psi (4.8 bar). Compressor will start up when tank pressure drops to approximately 50 psi (3.1 bar).

7. Open tank outlet valve and adjust air compressor regulator to 40 psi (2.8 bar).