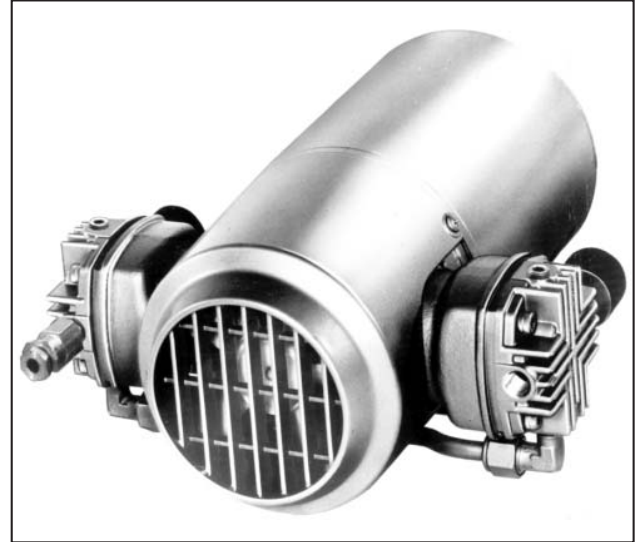


Reliable®

Model A Air Compressor for Sprinkler Systems

Features

1. Oilless— Permanently Lubricated
2. May be mounted in any position
3. No Adjustment necessary
4. Motor Mounted— No belts or gears
5. No Need for any other source of air
6. Compatible with Air Maintenance Devices having unloader valves
7. Thermal protection (single phase)
8. Air filter, one per cylinder
9. Safety relief valve (50 PSI)
10. Riser mounting available



The Reliable Air Maintenance Compressor provides the air supply need for a dry system. It can be used as a basic supply to fill and maintain systems up to and including the capacity shown on the chart. It may also be used to maintain pressure in systems of larger sizes after the system has been filled by another adequate source.

The Model A Air Compressor is designed to operate with a listed air maintenance device such as the Reliable Model B1 described in Bulletin 250.

The Model A Compressor must be elevated above the level of air entry into the dry riser, as illustrated in Figure 1. This arrangement will minimize the possibility of condensate or priming water damaging the compressor.

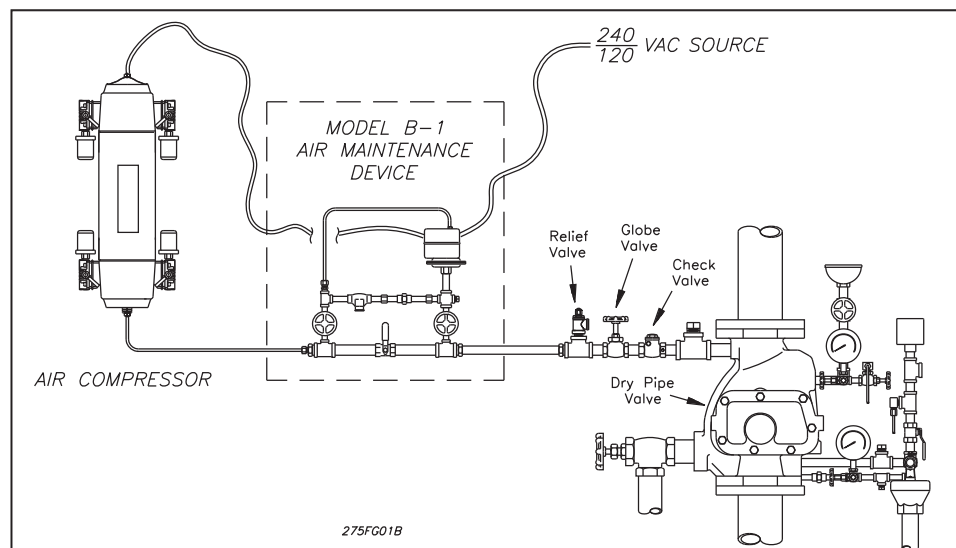


Figure 1

Installation Instructions

1. Locate the compressor in a cool dry area with clean air as close to the dry system as practicable.
2. Firmly mount the compressor by bolts through the slotted holes in the mounting base. For riser mounting use bracket P/N 6999990969.
3. Connect the compressor outlet to a dry sprinkler system via a suitable air maintenance device with an unloader valve, such as the Reliable Model B-1. To prevent compressor cycling, piping must be leaktight, particularly between the air maintenance device and the check valve located in the trim of the dry pipe valve or deluge valve dry pilot line.
4. Connect the electrical terminals on the motor to the appropriate terminals of a pressure switch using approved wiring. When using the B-1 Air Maintenance device, refer to Bulletin 251 for pressure switch wiring information. All dual voltage motors are pre-wired for the higher voltage. Follow the wiring schematic located on the nameplate or under the electrical cover plate to convert the motor to the lower voltage.

Engineering Specification

Model A Air Compressor

An oil-less, self-lubricating piston compressor shall provide the air supply required for a dry pipe system with mounted motor. Compressor shall be capable of providing a maximum of 50 psi air pressure and have an integral safety relief valve to prevent over-pressurizing of the system piping factory set at 56 psi. The compressor size shall be based on its ability to fill the sprinkler system piping (volume) to the required pressure in 30 minutes. Compressor size shall be [single-phase, 60 hz, 1/3 hp (180 gallon system capacity) having an electrical rating of 115 V at 8.2 amps. Air outlet size shall be 1/4" NPT] [single phase, 60 hz, 3/4 hp (400 gallon system capacity) having an electrical rating of 115/230 V at 14.0/7.0 amps. Air outlet size shall be 1/4" NPT] [three-phase, 60 hz, 3/4 hp (400 gallon system capacity) having an electrical rating of 200-230/460V at 3.4/1.7 amps. Air outlet size shall be 1/4" NPT] [three-phase, 50 hz, 3/4 hp (400 gallon system capacity) having an electrical rating of 220-240 V at 3.6/2.1 amps. Air outlet size shall be 1/4" NPT] [single-phase, 60 hz, 1 1/2 hp (800 gallon system capacity) having an electrical rating of 115/208-230 V at 21.6/12 amps. Air outlet

size shall be 3/8" NPT] [three phase, 60 hz, 2 hp (800 gallon system capacity) having an electrical rating of 208-230/460 V at 7.0/4.0 amps] [three-phase, 50 hz, 2 hp (800 gallon system capacity) having an electrical rating of 220-240/380-440 V at 6.6/3.3 amps. Air outlet size shall be 3/8" NPT]. A compatible listed/approved air maintenance device with associated unloader valve must be used to control the operation of the compressor to regulate system air pressure. Single-phase motors shall have integral thermal protection to prevent overheating. Three-phase motors shall be provided with a properly sized motor starter to protect motor from overload or reduced voltage conditions. Compressor shall be Reliable Model A, Bulletin 275.

Ordering Information

- Specify:
1. H.P.
 2. Voltage and Phase
 3. Frequency (Hz)
 4. Mounting bracket, if required

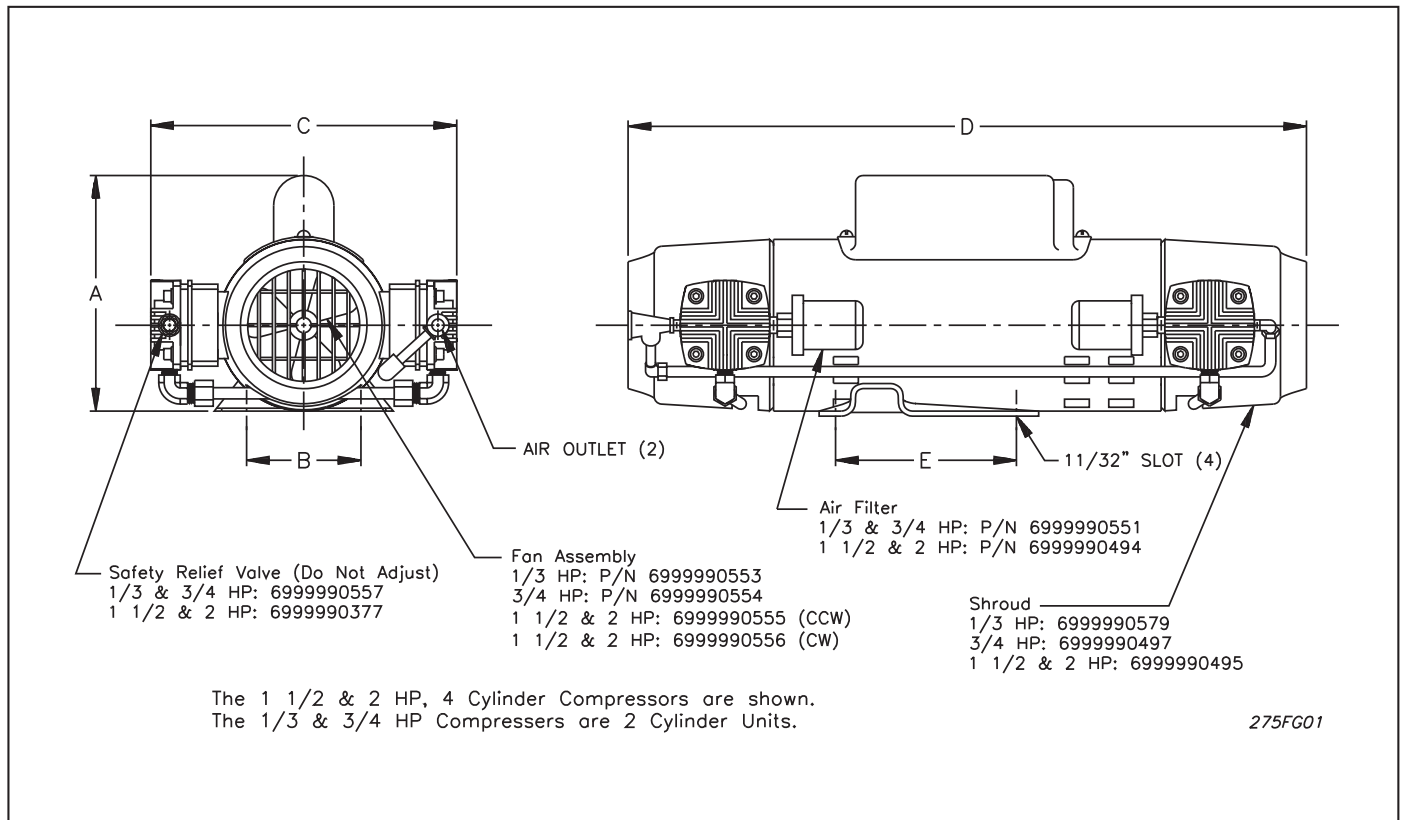


A Compressor mounting bracket is available with all the hardware and adjustable stainless steel straps for mounting Model A tankless air compressors to all riser sizes.

Installation Information

Dimensions Are In Inches												
Compressor Size	Electrical			System Capacity*	CFM Free Air @40 PSI	A	B	C	D	E	Air Outlet Size	Shipping Wt. Lb.
1/3 H.P.	115V	8.2 AMPS	60Hz 1 ϕ	180 Gal.	2.0	6	4 ¹ / ₄	11	13	2 ³ / ₄	1/4 NPT	32
3/4 H.P.	115/230V	14.0/7.0 AMPS	60Hz 1 ϕ	400 Gal.	4.2	9	4 ⁷ / ₈	12	17.4	3	1/4 NPT	47
3/4 H.P.	200-230/460V 220-240V	3.4/1.7 AMPS 3.6/2.1 AMPS	60Hz 3 ϕ 50Hz 3 ϕ	400 Gal.	4.2	9	4 ⁷ / ₈	12	17.4	3	1/4 NPT	47
1 1/2 H.P.	115/208-230V	21.6/12 AMPS	60Hz 1 ϕ	800 Gal.	7.9	9	4 ⁷ / ₈	12	22	5	3/8 NPT	79
2 H.P.	208-230/460V 220-240V 380-440V	7.0 4.0 AMPS 6.6/3.3 AMPS	60Hz 3 ϕ 50Hz 3 ϕ	800 Gal.	7.9	9	4 ⁷ / ₈	14	24	5	3/8 NPT	67

*System size is based on filling the system to 40 Psi within 30 minutes. Maximum pressure: 50 Psi



Reliable...For Complete Protection

Reliable offers a wide selection of sprinkler components. Following are some of the many precision-made Reliable products that guard life and property from fire around the clock.

- Automatic sprinklers
- Flush automatic sprinklers
- Recessed automatic sprinklers
- Concealed automatic sprinklers
- Adjustable automatic sprinklers
- Dry automatic sprinklers
- Intermediate level sprinklers
- Open sprinklers
- Spray nozzles
- Alarm valves
- Retarding chambers
- Dry pipe valves
- Accelerators for dry pipe valves
- Mechanical sprinkler alarms
- Electrical sprinkler alarm switches
- Water flow detectors
- Deluge valves
- Detector check valves
- Check valves
- Electrical system
- Sprinkler emergency cabinets
- Sprinkler wrenches
- Sprinkler escutcheons and guards
- Inspectors test connections
- Sight drains
- Ball drips and drum drips
- Control valve seals
- Air maintenance devices
- Air compressors
- Pressure gauges
- Identification signs
- Fire department connection

The equipment presented in this bulletin is to be installed in accordance with the latest pertinent Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances, whenever applicable.

Products manufactured and distributed by RELIABLE have been protecting life and property for over 90 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

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