

Electrical  
specs on  
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## LT Plus Series - High Pressure Single Phase Tank Mounted Air Compressors for Dry Pipe Sprinkler Systems

# LT Plus Series

This tank mounted air compressor is specifically designed to fill systems to 40 PSI in 30 minutes as per NFPA 13



- A.S.M.E. Coded Industrial Receiver
- A.S.M.E. Coded Safety Valve
- Single Stage Air Cooled Pump
- Fan Type Flywheel
- Integral Air Filter
- NEMA Standard Multi-Voltage Motors
- UL Listed Unloading Pressure Switch
- **Pressure Switch Prewired to Motor (NEW)**
- **30" Stainless Steel Flex Hose (NEW)**
- **Vibration Isolation Pads (NEW)**

| System Capacity (gal) + | Model Number  | Average CFM * | Motor HP | Recommended Wire Size ++ | Dimensions |    |    | Weight (lbs) | Tank Capacity (gal) | Pressure Switch Prewired ** |
|-------------------------|---------------|---------------|----------|--------------------------|------------|----|----|--------------|---------------------|-----------------------------|
|                         |               |               |          |                          | L          | W  | H  |              |                     |                             |
| 155                     | LT20033A-HP   | 2.24          | 1/3      | 10                       | 33         | 13 | 28 | 115          | 10                  | YES                         |
| 220                     | LT29050A-HP   | 2.67          | 1/2      | 8                        | 33         | 13 | 28 | 115          | 10                  | YES                         |
| 345                     | LT425100A-HP  | 4.18          | 1        | 6                        | 33         | 13 | 28 | 130          | 10                  | YES                         |
| 660                     | LT620100A-HP  | 7.91          | 1        | 6                        | 36         | 15 | 30 | 170          | 20                  | YES                         |
| 900                     | LT900150A-HP  | 10.33         | 1½       | 6                        | 36         | 15 | 30 | 170          | 20                  | YES                         |
| 1100                    | LT1300300A-HP | 14.78         | 3        | 4                        | 36         | 15 | 30 | 190          | 30                  | NO                          |
| 1200                    | LT1600300A-HP | 14.55         | 3        | 2                        | 40         | 18 | 44 | 310          | 30                  | NO                          |
| 2000                    | LT2000500A-HP | 24.25         | 5        | 2                        | 40         | 18 | 44 | 319          | 30                  | NO                          |
| 2500                    | LT2500500A-HP | 30.32         | 5        | 2                        | 40         | 18 | 44 | 336          | 30                  | NO                          |

### Accessories:



**Air Maintenance Device - Part # AMD-1**  
The AMD-1 is **required** for supplying air to a dry pipe system when using a tank mounted unit. The AMD-1 regulates the volume of air being delivered to the system.

### Motor Line Starters - Thermal Overload Protection Single Phase

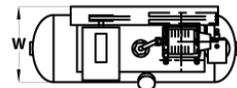
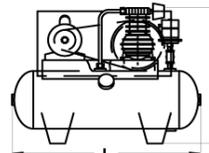
| Maximum HP | 115V   | 208/230V | Size | Model |
|------------|--------|----------|------|-------|
|            | 1/3 HP | 1 HP     | 00   | MG00A |
|            | 1 HP   | 2 HP     | 0    | MGX0A |
|            | 2 HP   | 3 HP     | 1    | MG01A |
|            | 3 HP   | 5 HP     | 1P   | MG15A |

When Ordering a Motor Starter you must specify HP, Voltage and Phase that is supplied to the motor.

### Notes:

- + System Capacity based on 70°F system temperature.
- \* Average CFM is the average free air delivery from 0 to 40 PSIG
- ++ Recommended Wire Sizes based on 100ft run. consult factory for longer or shorter runs.
- \*\* Only Units With Internal Overload Protection Prewired.

**VOLTAGE** - All Single Phase Units:  
Up to 2 HP: 115/208-230 VAC / 3 to 5 HP: 208-230 VAC



**WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)



## LT Plus Series - High Pressure Single Phase Tank Mounted Air Compressors Electrical Cut Sheet

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\*Only Units With Internal Overload Protection Prewired\*

| Model Number  | Nominal HP | Factory Wired Voltage | Amperage (amps) |      |          | Recommended Wire Size Based on Run Length (gage) |       |        | Motor Protection Included |
|---------------|------------|-----------------------|-----------------|------|----------|--|-------|--------|---------------------------|
|               |            |                       | Voltage         | FLA  | Start Up | 25 FT  | 50 FT | 100 FT |                           |
| LT20033A-HP   | 1/3        | 115                   | 115             | 6.4  | 44.8     | 12   | 12    | 10     | YES                       |
|               |            |                       | 208             | 3    | 21       | 12   | 12    | 10     |                           |
|               |            |                       | 230             | 3.2  | 22.4     | 12   | 12    | 12     |                           |
| LT29050A-HP   | 1/2        | 115                   | 115             | 8.6  | 60.2     | 12   | 12    | 8      | YES                       |
|               |            |                       | 208             | 4.1  | 28.7     | 12   | 10    | 8      |                           |
|               |            |                       | 230             | 4.3  | 30.1     | 12   | 12    | 12     |                           |
| LT425100A-HP  | 1          | 115                   | 115             | 13.6 | 95.2     | 12   | 10    | 6      | YES                       |
|               |            |                       | 208             | 6.9  | 48.3     | 12   | 10    | 6      |                           |
|               |            |                       | 230             | 6.8  | 47.6     | 12   | 12    | 12     |                           |
| LT620100A-HP  | 1          | 115                   | 115             | 14.7 | 102.9    | 12   | 10    | 8      | YES                       |
|               |            |                       | 208             | 7.1  | 49.7     | 12   | 8     | 6      |                           |
|               |            |                       | 230             | 7.3  | 51.4     | 12   | 12    | 12     |                           |
| LT900150A-HP  | 1 1/2      | 115                   | 115             | 14.7 | 102.9    | 12   | 10    | 8      | YES                       |
|               |            |                       | 208             | 7.1  | 49.7     | 12   | 8     | 6      |                           |
|               |            |                       | 230             | 7.3  | 51.4     | 12   | 12    | 12     |                           |
| LT1300300A-HP | 3          | 230                   | 208             | 14   | 98       | 10   | 6     | 4      | NO                        |
|               |            |                       | 230             | 12.6 | 88.2     | 12   | 12    | 10     |                           |
| LT1600300A-HP | 3          | 230                   | 208             | 17.4 | 121.8    | 8  | 4     | 2      | NO                        |
|               |            |                       | 230             | 16.8 | 117.6    | 12   | 12    | 10     |                           |
| LT2000500A-HP | 5          | 230                   | 208             | 23   | 161      | 8  | 4     | 2      | NO                        |
|               |            |                       | 230             | 21   | 147      | 12   | 12    | 8      |                           |
| LT2500500A-HP | 5          | 230                   | 208             | 23   | 161      | 8  | 4     | 2      | NO                        |
|               |            |                       | 230             | 21   | 147      | 12   | 12    | 8      |                           |

**Note:**

Wire sizes are based on maintaining 90% of the nominal voltage at starting amps. Starting amps are assumed to be 6 times the SFA.

**Warning:**

Failure to consult with a licensed electrical professional can result in serious personal injury or death. Disconnect all power before servicing. Undersized wire between the motor and the power source will limit the starting and load carrying abilities of the motor causing motor overheating and permanent damage to the motor. Wire sizes listed are recommendations only - consult the National Electric Code (NEC) and any applicable local electrical safety codes. The NEC and GAP recommends a maximum voltage drop of 3%. Install motors and related equipment in accordance with the National Electrical Code (NEC) local electrical safety codes and practices. **It is always the electrician's responsibility to determine and install a wire size that ensures motors can start and run well.**

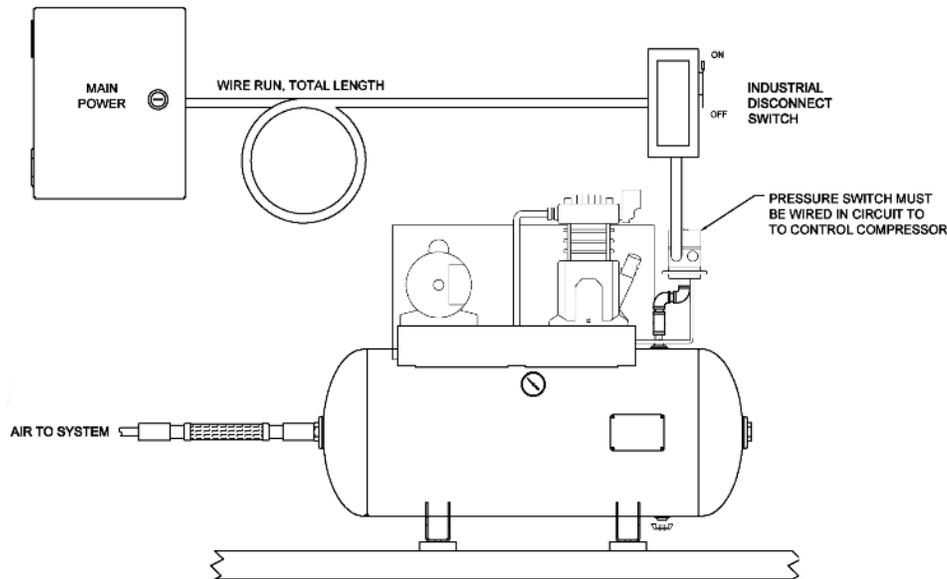
## LT Plus Series - Connection Diagram

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### System Layout

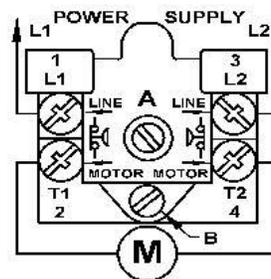


### Pressure Switch Connection (Single Phase Only)

#### PRESSURE SWITCH Diagram

Note: Location of pressure switch varies based on model. This is a general diagram of components. For help specific to your switch please contact General Air Products.

SWP60602



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