



## 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	CFM @ 10 PSIG	Motor HP	Recommended Wire Size ++	Dimensions			Weight (lbs)	Tank Capacity (gal)	Pressure Switch Prewired **
					L	W	H			
185	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
652	LT620100A-HP	7.91	1	6	36	15	30	170	20	YES
852	LT900150A-HP	10.33	1 1/2	6	36	15	30	170	20	YES
1022	LT1220200A-HP	12.39	2	4	36	15	30	190	20	NO
1219	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	LT200500A-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.

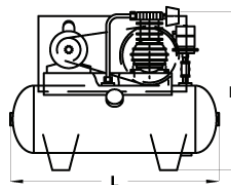
NOTE: A listed Air Maintenance Device must be installed in conjunction with all Tank Mounted air compressors.

++ 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





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

# LT

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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	230	115	18	102.9	12	10	8	YES
			208	9.3	49.7	12	8	6	
			230	9	51.4	12	12	12	
LT1220200A-HP	2	230	115	21	147	10	8	4	NO
			208	11.3	79.1	10	8	4	
			230	10.5	73.5	12	12	10	
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.**



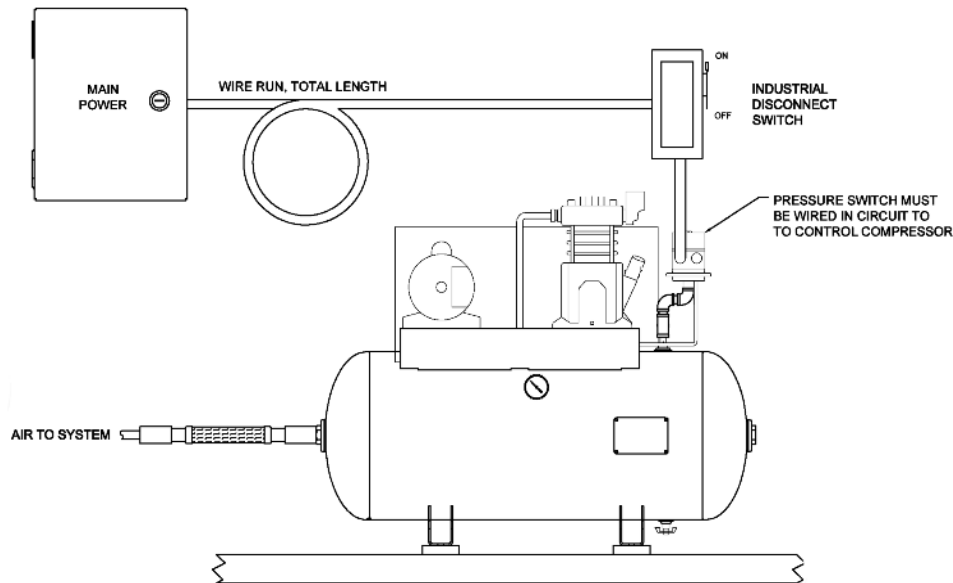
## LT Plus Series - Connection Diagram

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### System Layout

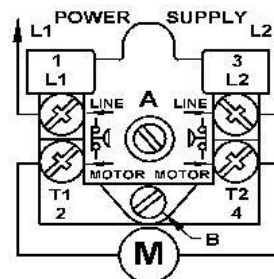


### Pressure Switch Connection (Single Phase Only)

#### 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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