

High Pressure Scroll Tankmount/Basemount Air Compressors

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.

Description

GENERAL

The Powerex Oilless Rotary Scroll Air Compressor has advanced scroll compressor technology through the development of a completely oilless unit. The Powerex Scroll Compressor offers a dynamically balanced air end which insures vibration-free operation. The rotary design permits a continuous 100% duty cycle. No oil separation, oil filtration, or inlet valves are required on the Powerex Scroll unit.

COMPRESSION CYCLE

The Powerex oilless rotary scroll air compressor is based on the theory of scroll compression. A scroll is a free standing, intricate spiral bounded on one side by a solid, flat plane or base. A scroll set, the basic compression element of a scroll compressor, is made up of two identical spirals which form right and left hand parts. One of these scroll components is indexed or phased 180° with respect to the other so the scrolls can mesh. Crescent-shaped gas pockets are formed and bounded by the spirals and the base plate of both scrolls. As the moving scroll is orbited around the fixed scroll, the pockets formed by the meshed scrolls follow the spiral toward the center and diminish in size. The moving scroll is prevented from rotating during this process so the 180° phase relationship of the scrolls is maintained. The compressor's inlet is at the outer boundary of the scrolls. The compressed gas is discharged through the outlet at the center of the fixed scroll so no valves are needed.

TIP SEAL

The tip seal on the scroll compressor is self-lubricated and allows the unit to operate efficiently without oil and expensive filtration. The tip seal should be replaced every 5,000 hours of operation.

BEARINGS

The bearings on the scroll compressor are regreaseable to allow extended compressor life. Service should be performed every 5,000 hours of operation.

DRY TYPE INLET FILTER

Change every 2,500 hours or more often in dirty locations.

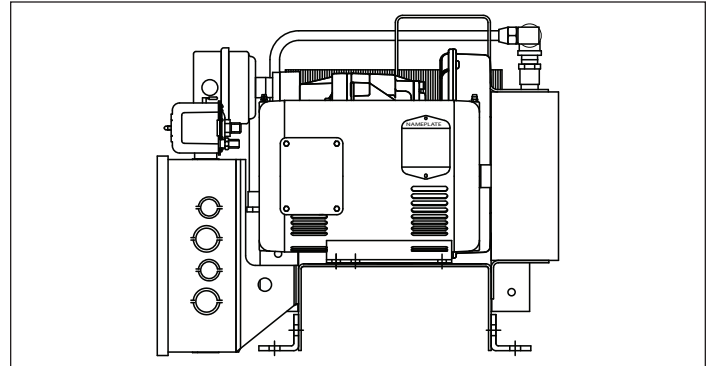


Figure 1 - SBSH Scroll Basemount Simplex High Pressure

Specifications

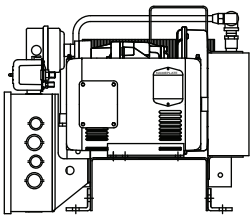
Product	STSH, STDH, SBSH High Pressure Scroll Tankmount/Basemount Air Compressors	
Performance Specifications	See Page 2	
California Ordinance 462 (L) (2)	Tankmount units meet the requirements of this ordinance	
Compression Cycle	Scroll	
Control Panel	UL508A Listed (panels are optional)	
Drive	2 - 3V Belts	
Lubrication	Grease filled bearings	
Motor Overload Protection	IEC Motor overload relay (optional)	
Operating Temperature	34° F - 104° F (1° C thru 40° C) at inlet	
Operating Voltages	1Ø	280-230 Volts, 60 Hz
	3Ø	208-320/460 Volts, 60 Hz
Outlet Air Connections	1/2 inch Basemount 3/4 inch NPT Tankmount	
Overpressure Protection	ASME safety valve factory set and sealed	
Pressure Settings Working Pressure	Cut-In: 115 psig Cut-Out: 145 psig (High Pressure Unit) (with optional panel)	
Tank Isolation	Standard tank mount units	
Tank Size (Tankmount Units)	Simplex Units: 30 and 60 gallon ASME Rated 200 psig Duplex Units: 80 and 120 gallon ASME Rated 200 psig	

Scroll Air Compressors Tankmount/Basemount

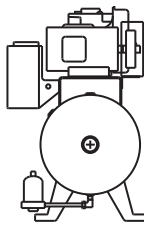
Performance Specifications

	Model	HP	Phase	SCFM @ 145 psig	Voltage	Full Load Amperage	Gallon Tank	Dimensions L x W x H
Scroll Basemount Simplex - Model SBSH	SBSH0307	3	3	7.5	208-230/460 115/230	8.7-7.9/3.9 32/16	Basemount	29 x 19 x 19
	SBSH1307	3	1	7.5			Basemount	29 x 19 x 19
	SBSH0507	5	3	12.0	208-230/460 208-230	14.2-12.8/6.4 24-23	Basemount	29 x 19 x 19
	SBSH1517	5	1	12.0			Basemount	29 x 19 x 19
Scroll Tankmount Simplex - Model STSH	STSH030	3	3	7.5	208-230/460 115/230	8.7-7.9/3.4 32/16	30 / 60	39 x 22 x 35 51x 23 x 39
	STSH130	3	1	7.5			30 / 60	39 x 22 x 35 51x 23 x 39
	STSH050	5	3	12.0	208-230/460 208-230	14.2-12.8/6.4 24-23	30 / 60	39 x 22 x 35 51x 23 x 39
	STSH151	5	1	12.0			30 / 60	39 x 22 x 35 51x 23 x 39
Scroll Tankmount Duplex - Model STDH	STDH030	3 (2)	3	15.0	208-230/460 115/230	8.7-7.9/3.9 32/16	80	64 x 26 x 40
	STDH130	3 (2)	1	15.0			80	64 x 26 x 40
	STDH050	5 (2)	3	24.0	208-230/460 208-230	14.2-12.8/6.4 24-23	80 / 120	64 x 26 x 40 71 x 35 x 75
	STDH151	5 (2)	1	24.0			80 / 120	64 x 26 x 40 71 x 35 x 75

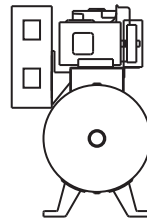
MODEL SBSH



MODEL STSH



MODEL STDH



OPTIONAL EQUIPMENT

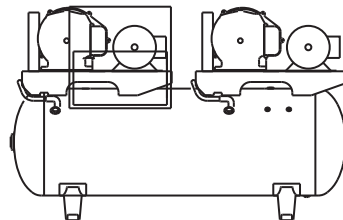
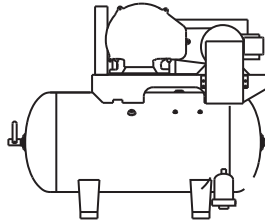
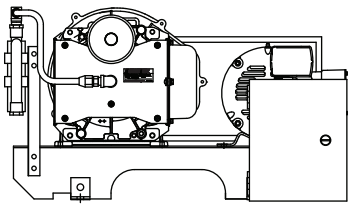
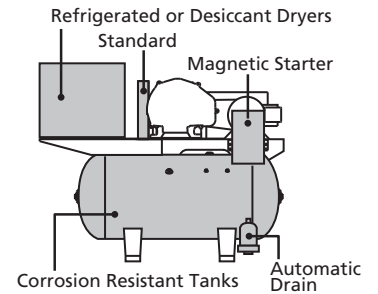


Figure 2 - Standard model configuration and optional equipment

HOURMETER

The hourmeter on the scroll compressor indicates the actual number of hours the unit has been in operation. The hourmeter is also used to determine maintenance and service timing. **An hourmeter must be installed with every Scroll compressor.**

CONDENSATE DRAIN VALVE

A condensate drain valve must be installed on any tank used to allow removal of the liquid which will collect during compressor operation.

NOTICE

Drain liquid from tank daily.

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.

NOTICE

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

NOTE: Information that requires special attention.

⚠ 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 for air, OSHA, ANSI 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 POWEREX DISCLAIMS ANY LIABILITY WHATSOEVER FOR ANY LOSS, PERSONAL INJURY OR DAMAGE.

Installation

RECEIVING THE UNIT

Immediately upon receipt of the scroll compressor, the unit should be inspected for any damage which may have occurred in shipment. Any shipping damage must be immediately filed with the freight carrier.

The compressor nameplate should be checked to see if the unit is the correct model and voltage as ordered.

APPLICATION

When the scroll compressor is to be used in applications other than the compressing of atmospheric air, please contact a Powerex representative for engineering and warranty information at 1-888-769-7979.

INSTALLATION SITE

1. The scroll compressor must be located in a clean, well lit and well ventilated area.
2. The area should be free of excessive dust, toxic or flammable gases, moisture, water and direct sunlight.
3. Never install the compressor where the ambient temperature is higher than 104° F or where humidity is high.

MINIMUM CLEARANCES

Above	24 inches
Drive belt side	12 inches
Other sides	20 inches

4. Clearance must allow for safe, effective inspection and maintenance.
5. If necessary, use metal shims or leveling pads to level the compressor. Never use wood to shim the compressor.

VENTILATION

1. If the scroll compressor is located in a totally enclosed room, an exhaust fan with access to outside air must be installed.
2. Never restrict the cooling fan exhaust air.
3. Never locate the compressor where hot exhaust air from other heat generating units may be pulled into the unit.

WIRING

All electrical hook-ups must be performed by a qualified electrician. Installations must be in accordance with local and national electrical codes.

Use solderless terminals to connect the electric power source.

Installation (Continued)

PIPING

1. Make sure the piping is lined up without being strained or twisted when assembling the piping for the scroll compressor.
2. Appropriate expansion loops or bends should be installed at the compressor to avoid stresses caused by changes in hot and cold conditions.
3. Piping supports should be anchored separately from the compressor to reduce noise and vibration.
4. Never use any piping smaller than the compressor connection.
5. Use flexible hose to connect the outlet of the compressor to the piping so that the vibration of the compressor does not transfer to the piping.

SAFETY VALVES

Tank mounted compressors are shipped from the factory with safety valves installed in the tank. The flow capacity of the safety valve is equal to or greater than the capacity of the compressor.

1. The pressure setting of the safety valve must be no higher than the maximum working pressure of the tank.
2. Safety valves should be placed ahead of any possible blockage point in the system, i.e. shutoff valve.
3. Avoid connecting the safety valve with any tubing or piping.
4. Manually operate the safety valve every six months to avoid sticking or freezing.

Operation

BEFORE START UP

1. Make sure all safety warnings, labels and instructions have been read and understood before continuing.
2. Remove any shipping materials, brackets, etc.
3. Confirm that the electric power source and ground have been firmly connected.
4. Be sure all pressure connections are tight.
5. Check to be certain all safety relief valves, etc., are correctly installed.
6. Check that all fuses, circuit breakers, etc., are the proper size.
7. Make sure the inlet filter is properly installed.
8. Confirm that the drain valve is closed.

START-UP AND OPERATION

1. Follow all the procedures under "Before start-up" before attempting operation of the compressor.
2. Switch the electric source breaker on.
3. Open the tank discharge valve completely.
4. Check that the compressor operates without excessive vibration, unusual noises or leaks.
5. Close the discharge valve completely.
6. If the pressure does not rise on a three phase unit, turn the unit off. Have a qualified electrician switch the breaker OFF and exchange the L1 and L2 connections (two out of three phases of electric source) inside the magnetic starter enclosure.
7. Check the discharge pressure. Also make sure the air pressure rises to the designated pressure setting by checking the discharge pressure gauge.
8. Check the operation of the pressure switch by opening the isolation valve and confirming the compressor starts as pressure drops.

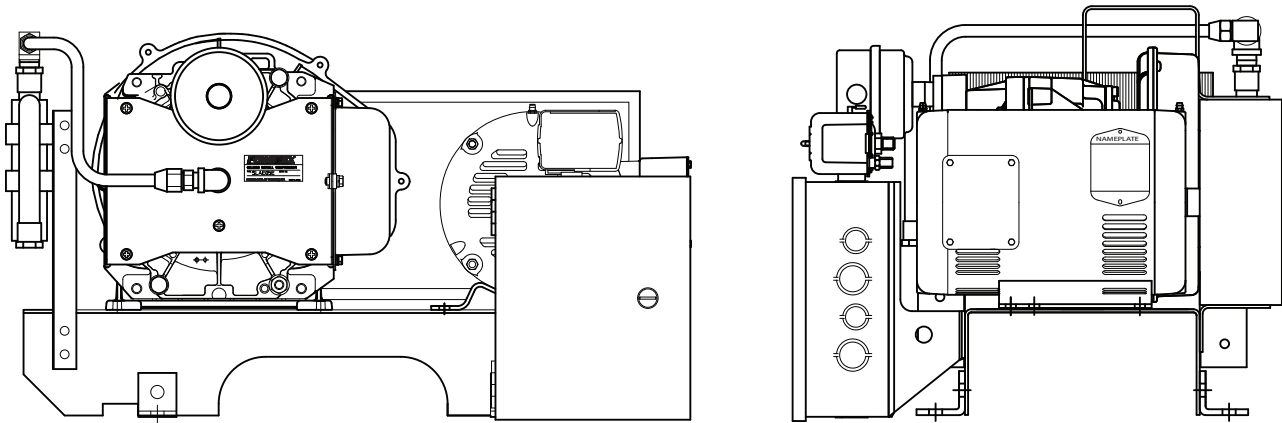


Figure 3 - SBSH Scroll Basemount Simplex

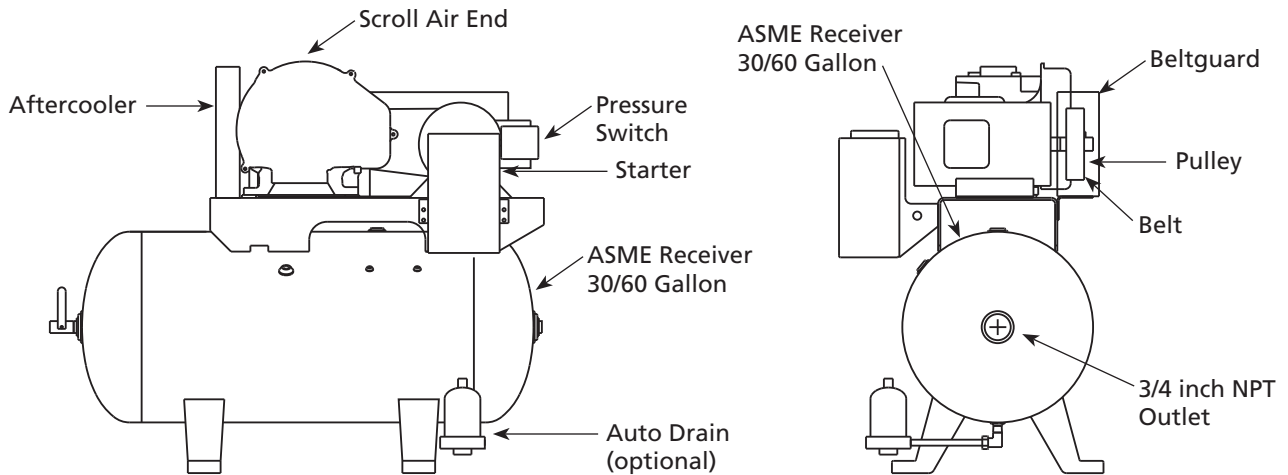


Figure 4 - STSH Scroll Tankmount

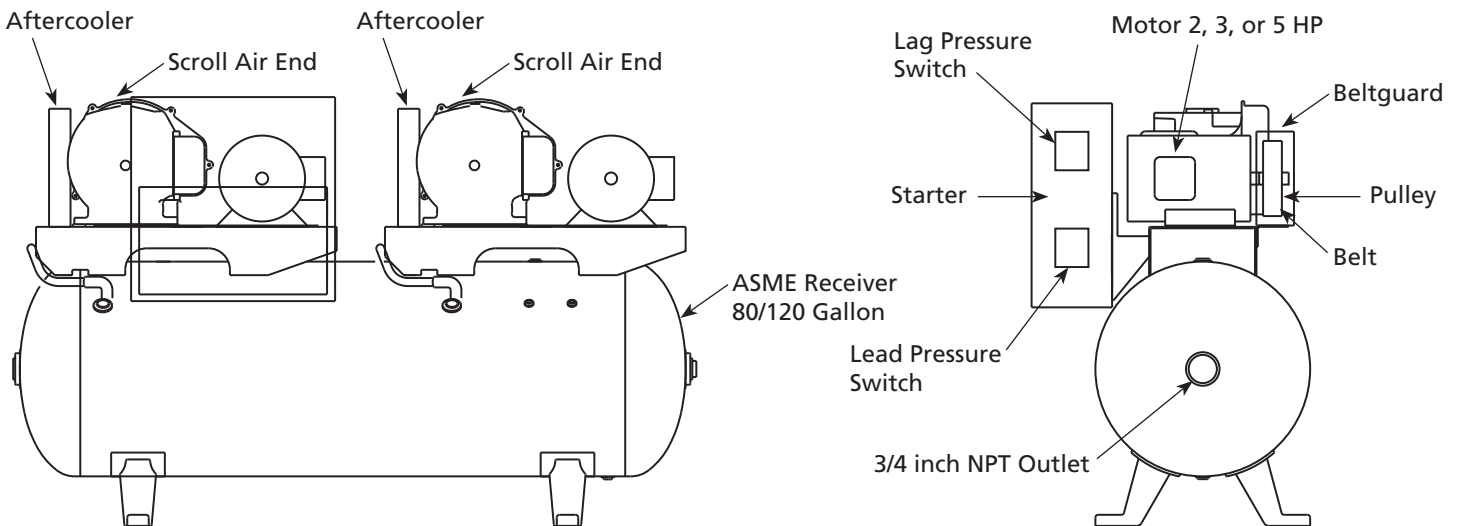


Figure 5 - STDH Scroll Tankmount Duplex

Scroll Air Compressors Tankmount/Basemount

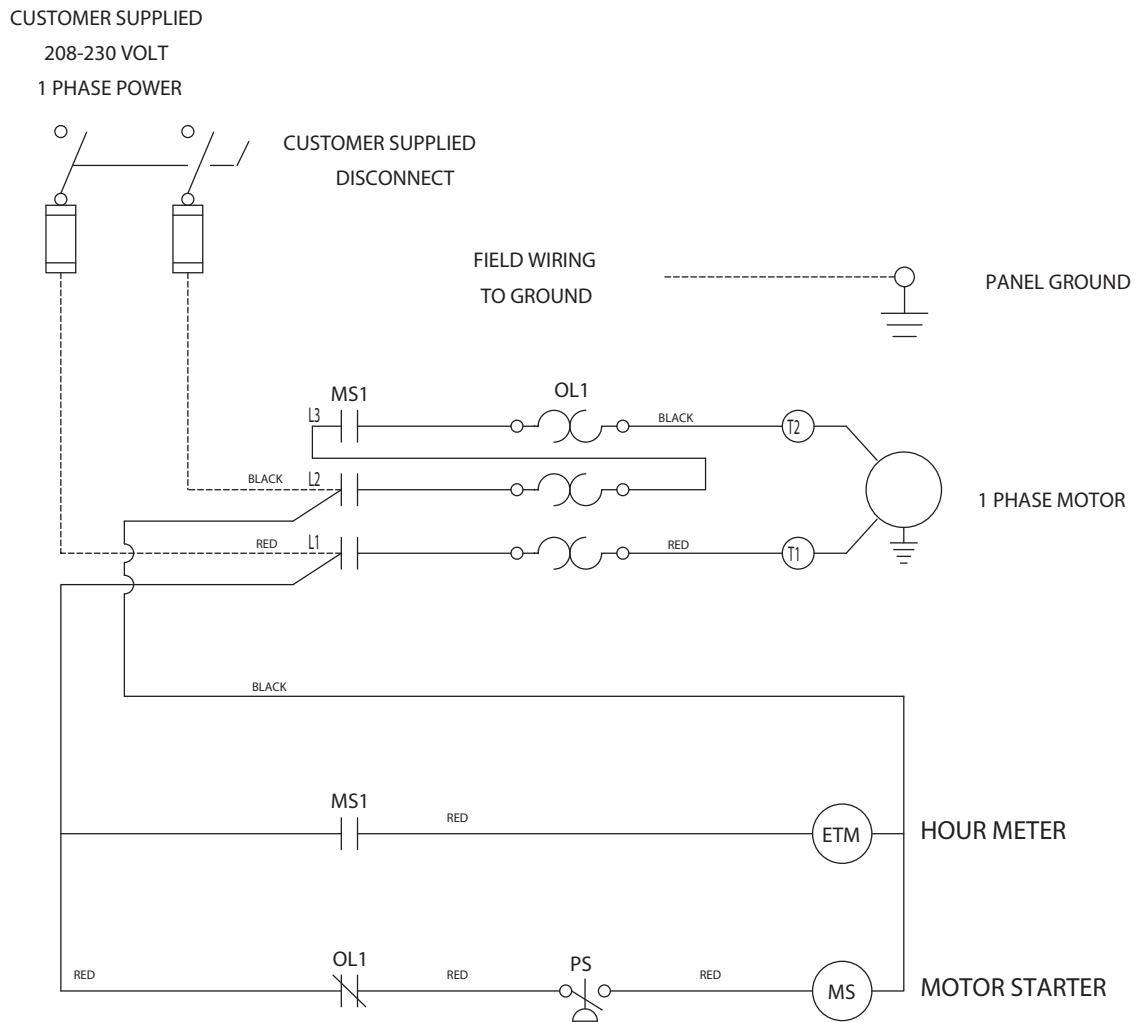
Maintenance

Item	Action needed	Operating Hours						Remarks
		500	2500	5000	10,000	15,000	20,000	
Pump	Replace						▲	
Tank	Drain moisture	Daily						
Inlet air filter	Replace	●	▲	(Every 2,500 hrs or less)				Part #91348550
Blower fan	Clean			●	●	●		
Fan duct	Clean			●	●	●		
Compressor fins	Clean		●	(Every 2,500 hrs or less)				
Bearings	Grease			▲	▲	▲		Service Center Only
Tip seal	Replace			▲	▲	▲		
Dust seal	Replace			▲	▲	▲		
V-belt	Inspect, Replace	* Note 3	●	▲	▲	▲	▲	
Pressure switch	Confirm operation				●		●	
Magnetic starter	Inspect				●		●	Replace if contact points deteriorated
Safety valve	Confirm operation		●	(Every 2,500 hrs or every 6 months, whichever comes first)				
Pressure gauge	Inspect		●	(Every 2,500 hrs or less)				

- Inspect
- ▲ Replace

- Notes:**
1. Inspect and perform maintenance periodically according to maintenance schedule.
 2. The maintenance schedule relates to the normal operating conditions. If the circumstances and load condition are adverse, shorten the cycle time and do maintenance accordingly.
 3. * The tension of the V-belt should be adjusted during the initial stage and inspected every 2,500 hours afterwards. Proper belt tension for 3 HP units is 7 lbs/0.19" deflection; for 5 HP units, 7 lbs/0.19" deflection.
 4. See Compressor Pump Manuals for replacement or service procedures.

Electrical Wiring Diagram - Simplex

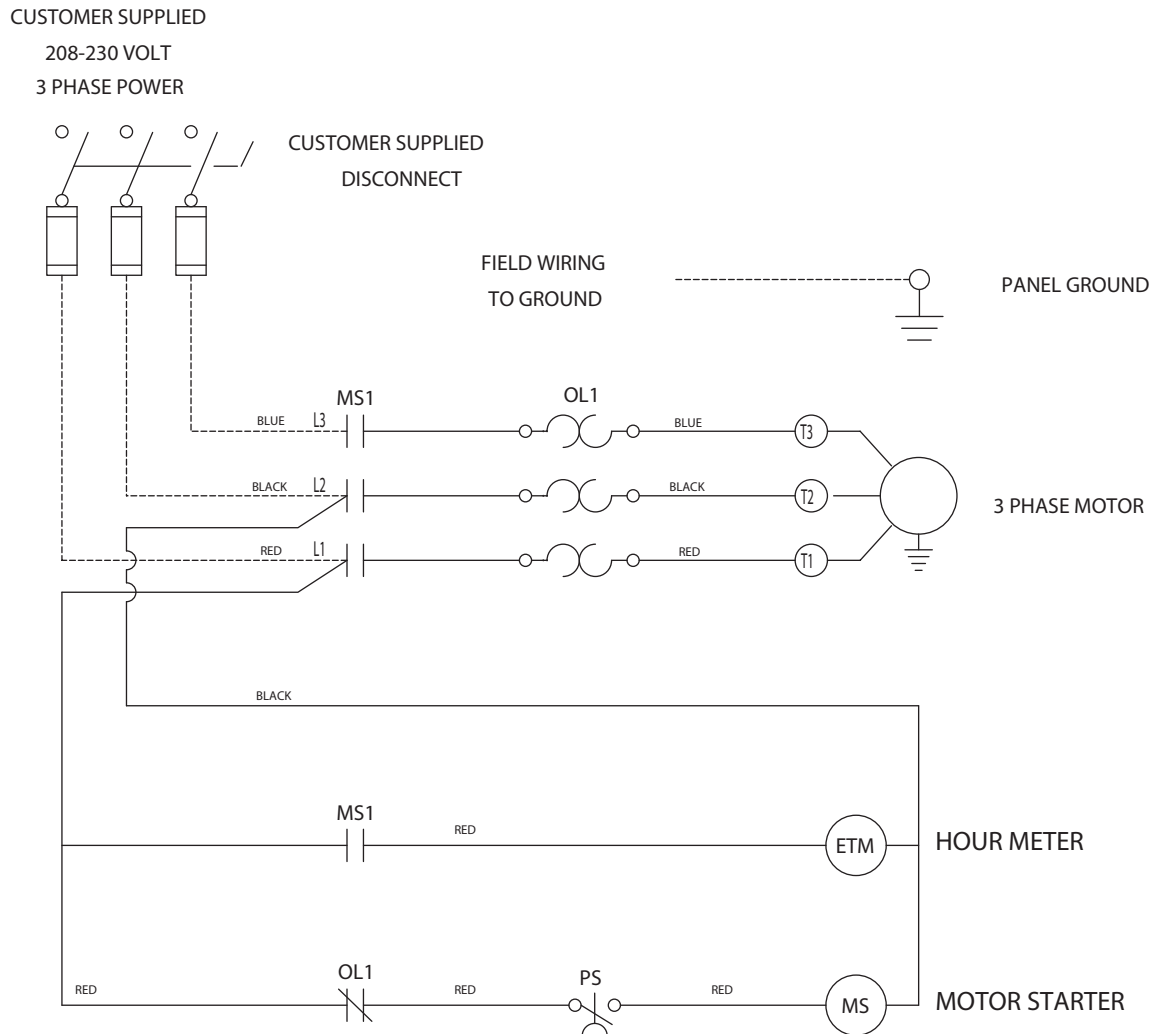


* Main disconnect and branch circuit protection to be installed by a qualified electrician in accordance with national and local codes.

Figure 6 - 3-5 HP Basemount/Simplex Single-Phase 208/230 Volts

Scroll Air Compressors Tankmount/Basemount

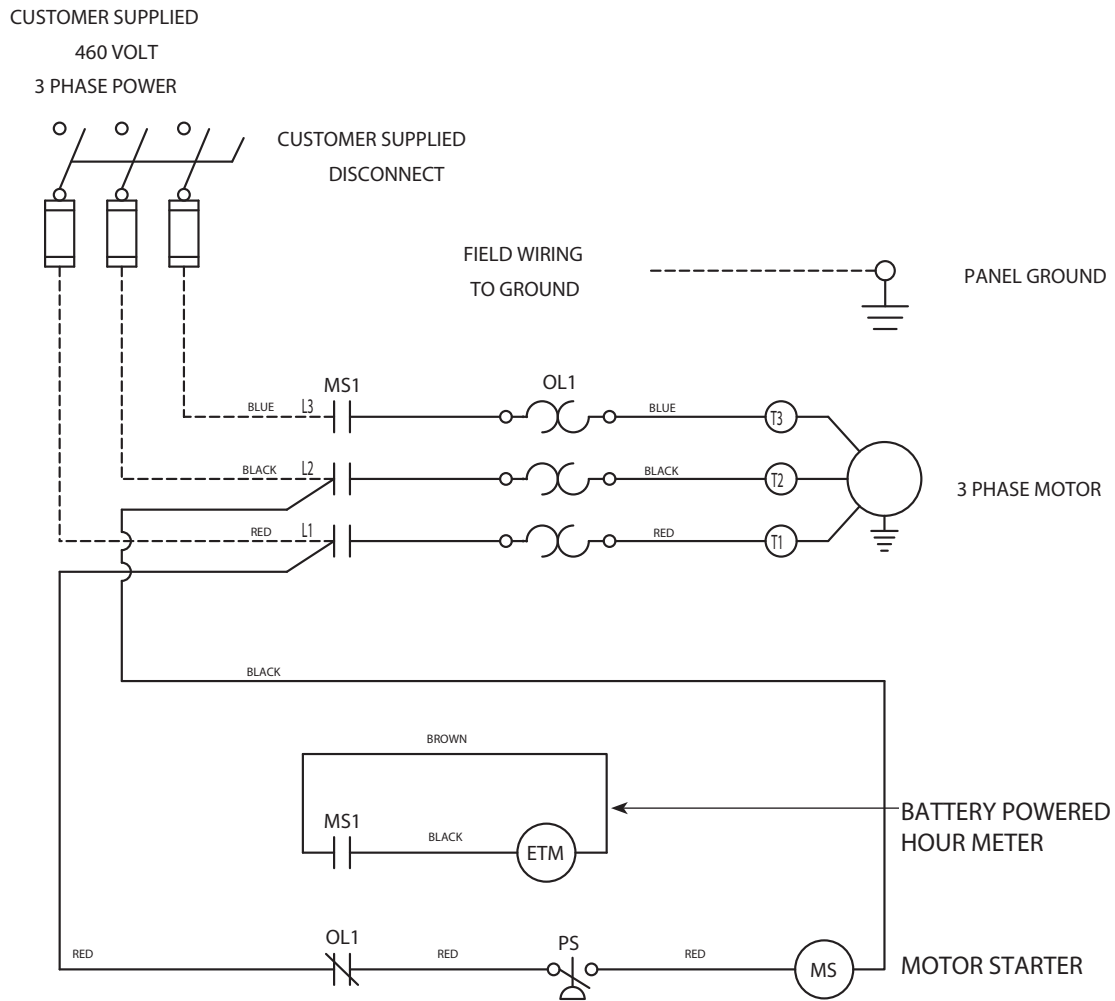
Electrical Wiring Diagram - Simplex



* Main disconnect and branch circuit protection to be installed by a qualified electrician in accordance with national and local codes.

Figure 7 - 3-5 HP Basemount/Simplex Three-Phase 208-230 Volts

Electrical Wiring Diagram - Simplex



* Main disconnect and branch circuit protection to be installed by a qualified electrician in accordance with national and local codes.

Figure 8 - 3-5 HP Basemount/Simplex Three-Phase 460 Volts

Scroll Air Compressors Tankmount/Basemount

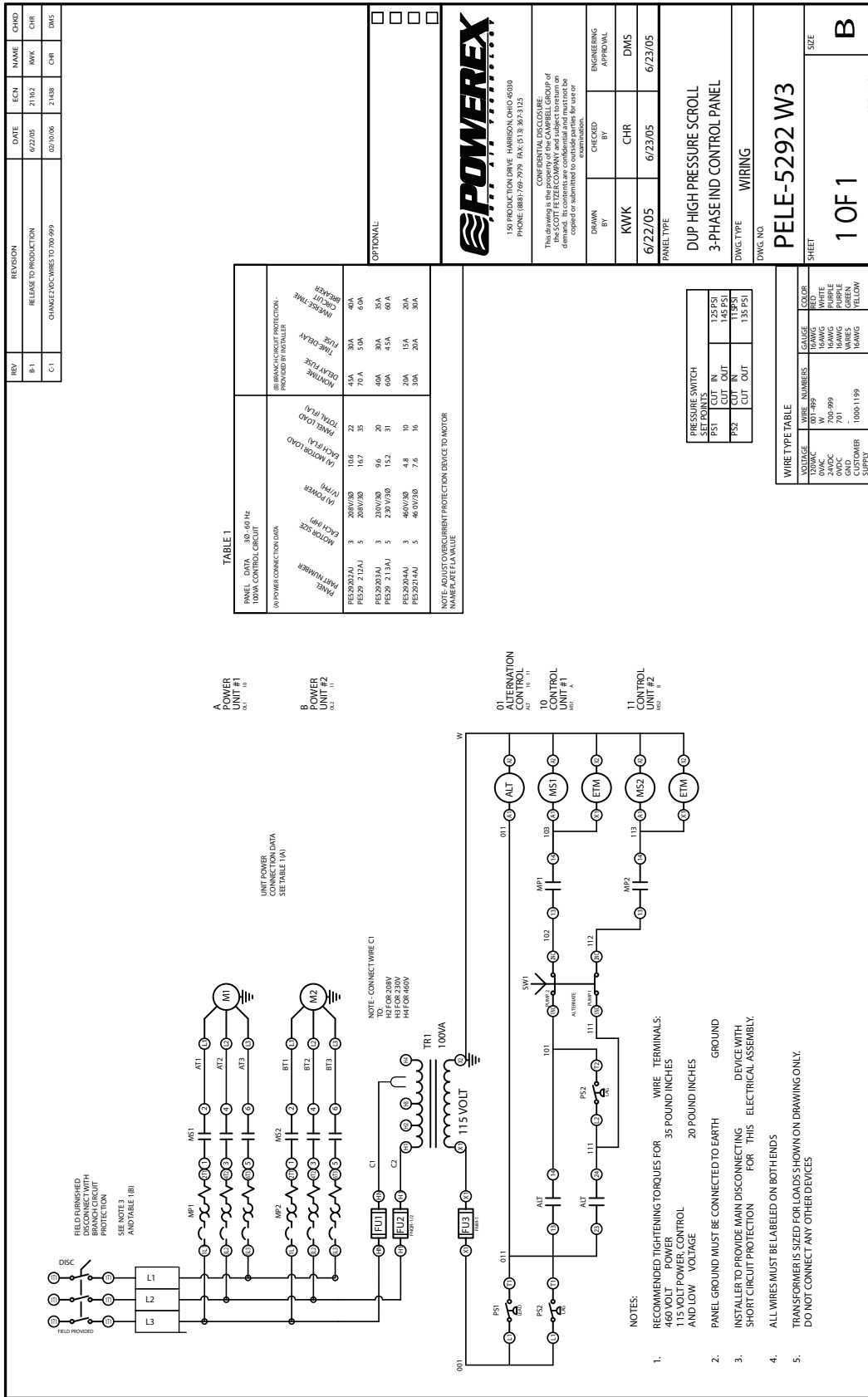
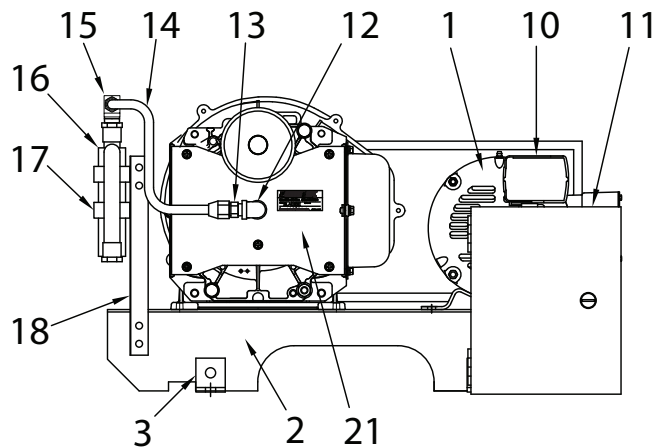
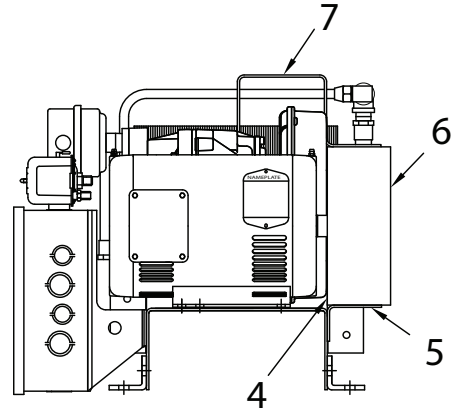


Figure 9 - 3-5 HP Duplex Three-Phase 208-230/460 Volts

Replacement Parts List for SBSH Models

Ref. No.	Description	SBSH Model Part Number	Qty.
1	Motor 3 HP 3 Phase	MC301566AV	1
	Motor 3 HP 1 Phase	MC022309AV	1
	Motor 5HP 3 Phase	MC301567AV	1
	Motor 5HP 1 Phase	MC022393AV	1
2	Base	BA000301AV	1
3	Angle bracket	ST185500AV	4
4	Beltguard back	BG303800AV	1
5	Bracket	SL050700AV	1
6	Beltguard front	BG303900AV	1
7	Beltguard bracket	SL302900AV	1
8 ▲	Belt:		
	3 HP	BT012001AV	2
	5 HP	BT010701AV	2
9 ▲	Motor pulley:		
	3 HP	PU202624AV	1
	5 HP	PU009754AV	1
10	Pressure switch	CW207595AV	1
11	Starter:		
	3 HP 230V 1 Phase	JP001045AV	1
	5 HP 230V 1 Phase	IP001046AV	1
	3 HP 230V 3 Phase	JP001047AV	1
	5 HP 230V 3 Phase	JP001049AV	1
	3 HP 460V 3 Phase	JP001048AV	1
	5 HP 460V 3 Phase	JP001050AV	1
12	90° Elbow	ST074204AV	1
13	1/2" Flare	ST126207AV	1
14	Discharge tube	SL300900AV	1
15	90° Flare elbow	ST126204AV	1
16	Aftercooler	SL300100AV	1
17	Aftercooler mounting bracket	AG007501AJ	4
18	Left/Right aftercooler bracket	SL300400AV	2
19 ▲	Check valve	IP087700AV	1
20 ▲	Safety valve	V-215401AV	1
21	Scroll air end:		
	3 HP	SL014003AJ	1
	5 HP	SL016511AJ	1

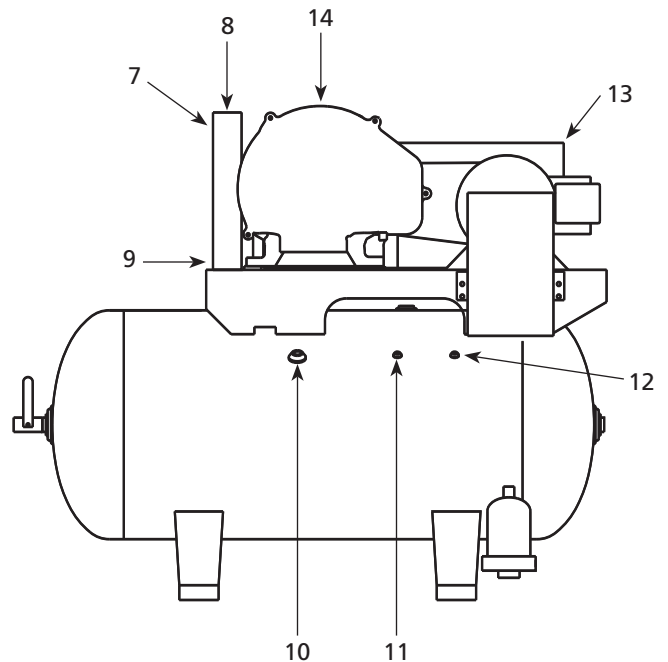
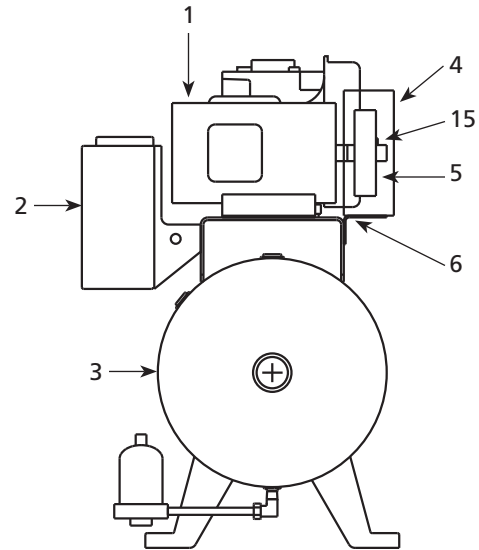
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Scroll Air Compressors Tankmount/Basemount

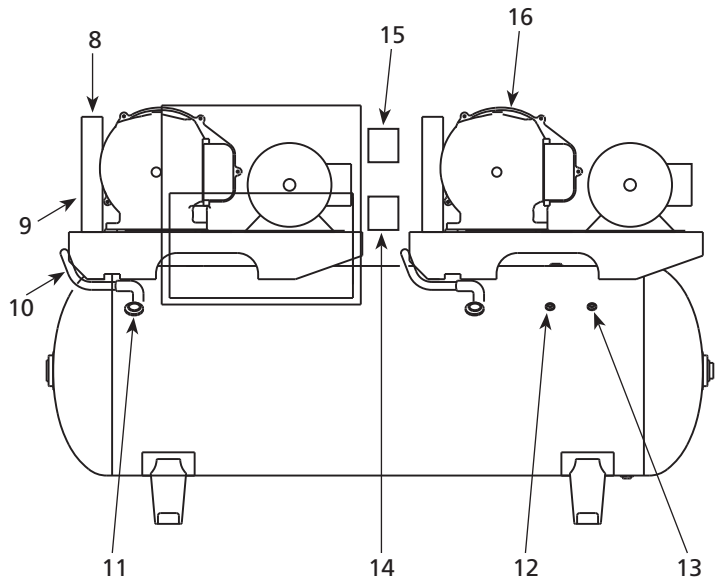
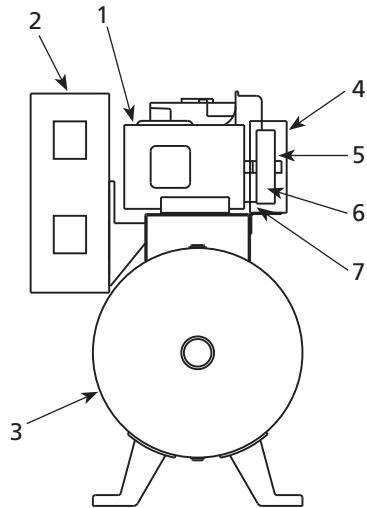
Replacement Parts List for STSH Models

Ref. No.	Description	STSH Model Part Number	Qty.
1	Motor:		
	3 HP 3 Phase	MC301566AV	1
	3 HP 1 Phase	MC022309AV	1
	5 HP 3 Phase	MC301567AV	1
	5 HP 1 Phase	MC022393AV	1
2	Starter:		
	3 HP 230V 1 Phase	JP001045AV	1
	5 HP 230V 1 Phase	JP001046AV	1
	3 HP 230V 3 Phase	JP001047AV	1
	5 HP 230V 3 Phase	JP001049AV	1
	3 HP 460V 3 Phase	JP001048AV	1
	5 HP 460V 3 Phase	JP001050AV	1
3	Receiver tank:		
	30 gallon	AR024700ST	1
	60 gallon	AR022500ST	1
4	Front beltguard	BG303900AV	1
5	Motor pulley:		
	3 HP	PU202624AV	1
	5 HP	PU009754AV	1
6	Back beltguard	BG303800AV	1
7	Aftercooler	SL300100AV	1
8	Tube air end/aftercooler	SL301000AP	1
9	Tube aftercooler/tank	SL300900AP	1
10	Check valve	IP087700AV	1
11	Pressure gauge	GA016701AV	1
12	Safety valve	V-215401AV	1
13	Pressure switch	CW207595AV	1
14	Scroll air end:		
	3 HP	SL014003AJ	1
	5 HP	SL016511AJ	1
15	Belt:		
	3 HP	BT012001AV	2
	5 HP	BT010701AV	2



Replacement Parts List for STDH Models

Ref. No.	Description	STSH Model Part Number	Qty.
1	Motor:		
	3 HP 3 Phase	MC301566AV	2
	3 HP 1 Phase	MC022309AV	2
	5 HP 3 Phase	MC301567AV	2
	5 HP 1 Phase	MC022393AV	2
2	Starter alternator panel:		
	3 HP 230V 1 Phase	PE529205AJ	1
	5 HP 230V 1 Phase	PE529215AJ	1
	3 HP 230V 3 Phase	PE529203AJ	1
	5 HP 230V 3 Phase	PE529213AJ	1
	3 HP 460V 3 Phase	PE529204AJ	1
	5 HP 460V 3 Phase	PE529214AJ	1
3	Receiver tank:		
	80 gallon	AR022900ST	1
	120 gallon	AR023600ST	1
4	Front beltguard	BG303900AV	1
5	Belt:		
	3 HP	BT012001AV	4
	5 HP	BT010701AV	4
6	Motor pulley:		
	3 HP	PU202624AV	2
	5 HP	PU009754AV	2
7	Back beltguard	BG303800AV	2
8	Aftercooler	SL300100AV	2
9	Tube air end/aftercooler	SL301000AP	2
10	Tube aftercooler/tank	SL300900AP	2
11	Check valve	IP087700AV	2
12	Pressure gauge	GA016701AV	1
13	Safety valve	V-215401AV	1
14	Pressure switch (Lead)	CW207574AV	1
15	Pressure switch (Lag)	CW207595AV	1
16	Scroll air end:		
	3 HP	SL014003AJ	2
	5 HP	SL016511AJ	2



Troubleshooting Guide

PROBLEM	CAUSE	CORRECTIVE ACTION
Power ON light does not appear	<ol style="list-style-type: none"> 1. Main disconnect is not ON 2. Blown fuse or circuit breaker at customer provided power supply 3. Blown fuse at primary side of transformer 	<ol style="list-style-type: none"> 1. Switch disconnect to ON 2. Inspect for any fault replace fuse or trip disconnect to ON 3. Replace fuse on primary side be sure use same type and size
Power ON light is on but unit will not start	<ol style="list-style-type: none"> 1. Blown fuse on secondary side of transformer 2. Motor overload has tripped 3. Wrong or low voltage 4. Starter has failed 5. Motor has failed 	<ol style="list-style-type: none"> 1. Replace fuse on secondary side be sure use same type and size 2. See last entry of Troubleshooting Guide 3. Check incoming power supply and unit power rating 4. Replace connector assembly 5. Replace motor
Compressor is running but will not make pressure	<ol style="list-style-type: none"> 1. Drive belts came off or too loose 2. Clogged intake filter element 3. Pressure relief valve has opened 4. Excessive tip seal wear 5. Electric tank drain is open continuously 6. Unit running in the wrong direction 7. Discharge air is leaking 	<ol style="list-style-type: none"> 1. Replace drive belts and (or) tighten 2. Replace intake filter element 3. Pressure switch needs replaced or motor contacts welded shut 4. Replace tip seals 5. Replace tank drain 6. Correct power connections 7. Check discharge piping
Excessive noise or vibration	<ol style="list-style-type: none"> 1. Drive belt has separated or flat spot 2. Motor has failed 3. Pump is damaged 4. Cooling air fan is touching fan guard 	<ol style="list-style-type: none"> 1. Replace drive belt 2. Replace motor 3. Fix or replace pump 4. Check air fan daily
Compressor shuts down on high temperature	<ol style="list-style-type: none"> 1. Room temperature is above 104° F 2. Inlet air duct is obstructed 3. Cooling air fan not running 4. Aftercooler fins clogged 5. Intake filter damaged 6. Compressor is dirty 	<ol style="list-style-type: none"> 1. Add ventilation or air conditioning to room 2. Remove obstruction or reposition unit to allow for cooling air 3. Replace cooling air fan 4. Clean aftercooler 5. Check intake filter 6. Clean unit
Compressor shuts down on temperature malfunction	Temperature switch has faulted / unplugged	Replace temperature switch / plug in
Compressor turns on / off rapidly	<ol style="list-style-type: none"> 1. Receiver tank has high level of water 2. Compressor check valve has failed 3. Defective pressure switch 	<ol style="list-style-type: none"> 1. Replace electric tank drain / drain tank 2. Replace check valve 3. Replace pressure switch
Safety valves blows off	<ol style="list-style-type: none"> 1. Pressure switch has failed to open 2. Motor starter contacts welded shut 	<ol style="list-style-type: none"> 1. Replace pressure switch 2. Replace motor starter
Motor Overload has tripped	<ol style="list-style-type: none"> 1. Pump has failed 2. Motor has failed 3. Improper wiring 4. Wrong overload setting 5. Low voltage 	<ol style="list-style-type: none"> 1. Fix or replace pump 2. Replace motor 3. Check wiring 4. Check overload setting 5. Check incoming power supply

Powerex Limited Warranty – Applicable to Non-OEM Customers in the U.S. & Canada Only

Warranty and Remedies.

(a) General. Powerex warrants each Compressor System, Vacuum System, Vacuum Pump, Compressor Air-End, or Powerex branded Accessory (collectively “Products”, individually each a “Product”) to be free from defects in material and workmanship (“Defects”) at the date of shipment. This warranty shall apply only to Products that are purchased and used in the United States of America and in Canada. EXCEPT AS SET FORTH BELOW, NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF SUCH PRODUCTS. TO THE EXTENT PERMITTED BY LAW, ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. All warranty claims must be made in writing and delivered to Powerex in accordance with the procedures set forth on its website (www.powerexinc.com), or such claim shall be barred. Upon timely receipt of a warranty claim, Powerex shall inspect the Product claimed to have a Defect, and Powerex shall repair, or, at its option, replace, free of charge, any Product which it determines to have had a Defect; provided, however, that if circumstances are such as to preclude the remedying of Defect by repair or replacement, Powerex shall, upon return of the Product, refund to buyer any part of the purchase price of such Products paid to Powerex. Freight for returning Products to Powerex for inspection shall be paid by buyer. The warranties and remedies herein are the sole and exclusive remedy for any breach of warranty or for any other claim based on any Defect, or non-performance of the Products, whether based upon contract, warranty or negligence.

(b) (i) Standard Period of Warranty – Parts and Labor - The purchase of any system includes our standard warranty. Powerex warrants and represents all Products shall be free from Defects for the first eighteen (18) months from the date of shipment by Powerex, or twelve (12) months from the documented date of startup, or five thousand (5,000) hours of use, whichever occurs first. During such warranty period, Powerex shall be fully liable for all Defects in the Products (the “Product Defects”), i.e., all costs of repair or replacement, which may include “in and out” charges, so long as the Products are located in the United States or Canada, and the Products are reasonably located and accessible by service personnel for removal. “In and out” charges include the costs of removing a Product from buyer’s equipment for repair or replacement.

(ii) Premium Period of Warranty – Parts and Labor - In order to be eligible for premium warranty coverage, a premium warranty for each system must be purchased when order is placed. Powerex warrants and represents all Products shall be free from Defects for the first thirty (30) months from the date of shipment by Powerex, or twenty-four (24) months from the documented date of startup, or seven thousand five hundred (7,500) hours of use, whichever occurs first. During such warranty period, Powerex shall be fully liable for all Defects in the Products (the “Product Defects”), i.e., all costs of repair or replacement, which may include “in and out” charges, so long as the Products are located in the United States or Canada, and the Products are reasonably located and accessible by service personnel for removal. “In and out” charges include the costs of removing a Product from buyer’s equipment for repair or replacement.

(c) Additional Period of Warranty – Parts Only (No Labor). In addition to the above, Powerex warrants each Powerex branded Compressor Air- End and Vacuum Pump shall be free of Defects for a period of forty-two (42) months from the date of shipment by Powerex, or thirty-six (36) months from the documented date of startup, or ten thousand (10,000) hours of use, whichever occurs first. Supplier’s repair or replacement of any Product shall not extend the period of any warranty of any Product. This warranty applies to the exchange of part(s) found to be defective by an Authorized Powerex Service Representative only.

(d) Replacement Pumps – Parts Only (No Labor). For any replacement Air-End or Vacuum Pumps installed on a Powerex manufactured system or unit after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex warrants that the Air-End or Vacuum Pumps shall be free of Defects for a period of thirty-six (36) months from the date of shipment by Powerex or ten thousand (10,000) hours of use, whichever comes first. For any replacement Air-End or Vacuum Pumps installed on a system that was not manufactured by Powerex after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex warrants that the Air-End or Vacuum Pumps shall be free of Defects for the first twelve (12) months from the date of shipment by Powerex. Supplier’s repair or replacement of any Product shall not extend the period of any warranty of any Product. This warranty applies to the exchange of part(s) found to be defective by an Authorized Powerex Service Representative only.

(e) Replacement Motors – Parts Only (No Labor). For any replacement motor installed on a Powerex manufactured system or unit after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex warrants that the replacement motor shall be free of Defects for the first twelve (12) months from the date of shipment by Powerex. For any replacement motor installed on a system or unit that was not manufactured by Powerex after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex warrants that the replacement motor shall be free of Defects for the first ninety (90) days from the date of shipment by Powerex. Supplier’s repair or replacement of any Product shall not extend the period of any warranty of any Product. This warranty applies to the exchange of part(s) found to be defective by an Authorized Powerex Service Representative only.

(f) Replacement Parts – Parts Only (No Labor). For other replacement parts besides motors, Air-End or Vacuum Pumps installed on a Powerex manufactured system or unit after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex warrants that such replacement parts will be free from Defects for the first twelve (12) months from the date of shipment by Powerex. For other replacement parts besides motors, Air-End or Vacuum Pumps installed on a system or unit that was not manufactured by Powerex after any initial warranty period has expired or where another warranty does not apply for any reason, Powerex makes no warranties. Supplier’s repair or replacement of any Product shall not extend the period of any warranty of any Product. This warranty applies to the exchange of part(s) found to be defective by an Authorized Powerex Service Representative only.

(g) Coverage. The warranty provided herein applies to Powerex manufactured units or systems only.

(h) Exceptions. Notwithstanding anything to the contrary herein, Powerex shall have no warranty obligations with respect to Products:

- (i) that have not been installed in accordance with Powerex’s written specifications and instructions;
- (ii) that have not been maintained in accordance with Powerex’s written instructions;
- (iii) that have been materially modified without the prior written approval of Powerex; or
- (iv) that experience failures resulting from operation, either intentional or otherwise, in excess of rated capacities or in an otherwise improper manner.

Scroll Air Compressors Tankmount/Basemount

(i) The warranty provided herein shall not apply to:

- (i) any defects arising from corrosion, abrasion, use of insoluble lubricants, or negligent attendance to or faulty operation of the Products;
- (ii) ordinary wear and tear of the Products;
- (iii) defects arising from abnormal conditions of temperature, dirt or corrosive matter; or
- (iv) any OEM component which is shipped by Powerex with the original manufacturer's warranty, which shall be the sole applicable warranty for such component.

Limitation of Liability. NOTWITHSTANDING ANYTHING TO THE CONTRARY HEREIN, TO THE EXTENT ALLOWABLE UNDER APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL POWEREX BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, PUNITIVE, SPECULATIVE OR INDIRECT LOSSES OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATED TO ANY OF THE PRODUCTS OR GOODS SOLD OR AGREED TO BE SOLD BY POWEREX TO BUYER. TO THE EXTENT ALLOWABLE UNDER APPLICABLE LAW, POWEREX'S LIABILITY IN ALL EVENTS IS LIMITED TO, AND SHALL NOT EXCEED, THE PURCHASE PRICE PAID.

Warranty Disclaimer. Powerex has made a diligent effort to illustrate and describe the Products in its literature, including its Price Book, accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the Products are merchantable, or fit for a particular purpose, or that the Products will necessarily conform to the illustrations or descriptions.

Product Suitability. Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of Products for certain purposes, which may vary from those in neighboring areas. While Powerex attempts to assure that its Products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a Product, please review the Product applications, and national and local codes and regulations, and be sure that the Product, installation, and use will comply with them.

Claims. Any non-warranty claims pertaining to the Products must be filed with Powerex within 6 months of the invoice date, or they will not be honored. Prices, discounts, and terms are subject to change without notice or as stipulated in specific Product quotations. Powerex shall not be liable for any delay or failure arising out of acts of the public enemy, fire, flood, or any disaster, labor trouble, riot or disorder, delay in the supply of materials or any other cause, whether similar or dissimilar, beyond the control of Company. All shipments are carefully inspected and counted before leaving the factory. Please inspect carefully any receipt of Products noting any discrepancy or damage on the carrier's freight bill at the time of delivery. Discrepancies or damage which obviously occurred in transit are the carrier's responsibility and related claims should be made promptly directly to the carrier. Returned Products will not be accepted without prior written authorization by Powerex and deductions from invoices for shortage or damage claims will not be allowed. **UNLESS OTHERWISE AGREED TO IN WRITING, THE TERMS AND CONDITIONS CONTAINED IN THIS LIMITED WARRANTY WILL CONTROL IN ANY TRANSACTION WITH POWEREX.** Any different or conflicting terms as may appear on any order form now or later submitted by the buyer will not control. All orders are subject to acceptance by Powerex.