

Hydraulic Compressors

Installation Guide

Notice: All air compressors must be installed by a qualified and trained technician.

If you need a qualified technician, call 800-531-9656 or 972-352-6304. Improper installation may result in damage to the compressor, personal injury, and will void the warranty of the compressor package.

Warning: Read all installation steps, compressor package operation manual, notices and warnings prior to beginning compressor package installation. Failure to do so can result in personal injury or damage to compressor package.

Warning: Always wear proper protective eye wear, hearing protection, and other mandated safety clothing and devices when installing compressor packages

Notice: Compressor package should not be mounted to a piece of equipment that will be moving while the compressor package is in operation. The compressor package should not be mounted to a piece of equipment that adds additional vibration to the compressor package. The compressor package is only designed to handle its own organic vibration during operation. Failure to follow either one of these guidelines may result in pre-mature failure of compressor package, components and/or personal injury.

NOTICE: To ensure full compressor tank warranty all tank mounted compressor packages must be mounted on factory supplied vibration isolation pads.

Notice: All compressor air receivers should be inspected by a certified pressure vessel technician at least once per year, to check for leaks, weak points in the metal or any other deformity of the air receiver. If at any time a receiver appears out of conformance with ASME/CRN certification or a deformity is believed to have developed no matter how minor it may appear the tank should be locked out of service immediately

Compressed Air Systems

Simplicity. It's What We Do.

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Warning: Always wear proper protective eye ware, hearing protection and safety clothing when working around the compressor package. No loose or baggy clothing should be worn around compressor package at any time.



Notice: Compressed Air Systems compressors can operate at pressures from 0-250 PSI depending on the compressor package design and build specifications. Always verify that the system the compressor is installed into can handle the maximum operational pressure of the compressor. NEVER install a compressor in a system that can not handle the compressors maximum operating pressure.



Notice: Compressed air is extremely dangerous when not properly used or installed. Always make sure a trained compressed air professional has looked over the air system prior to use. Improper installation or use of compressed air can cause bodily injury or death. NEVER pressurize an object that was not designed to be pressurized. Pressurizing objects not properly engineered for the maximum operating pressure of the compressor system can cause bodily injury or death.

Step 1

Verify compressor package install site can handle the weight load of compressor package.

Step 2

Make sure compressor installation area is clear of debris and has adequate space around were the compressor will sit for service and ventilation (must be able to get clean fresh air through cooler during operation, without recirculating cooler hot air discharge). If site is excessively dusty or dirty due to grinding, sanding, or due to the nature of the selected application site a new site should be sought out.

Step 3

Make sure site hydraulic flow rate (GPM) and hydraulic pressure (PSI) is compatible with compressor package. Refer to compressor package nameplate, and/or sales invoice.

Step 4

Verify that pressure and return hydraulic lines are properly sized. Failure to have properly sized lines will effect the performance of the compressor.

Step 5

Uncrate compressor package (verify package is intact and not missing parts).

Step 6

Remove compressor shipping pallet.

Warning: Only use forklift or approved lifting device to remove compressor from shipping pallet.

Step 7

Set compressor into place on vibration isolation pads.

Step 8

Drill holes to mount compressor with vibration pads..

Step 9

Tighten compressor package mounting bolts to secure in place.

Step 10

Connect airline to compressor package air discharge.

Note: It is recommended to use a flexible line between the compressor package and the system piping to avoid damage due to compressor vibration.

Step 11

Attach hydraulic pressure line to corresponding coupling on compressor package (label "IN"). Attach low pressure return line to compressor (labeled "OUT"). Ensure that the low pressure return line is securely connected to hydraulic reservoir.

Notice: Before proceeding, verify that hydraulic connections have been made correctly, otherwise hydraulic fluid will spray out.

Step 12

Turn on the hydraulic system.



Warning: When the hydraulic system is turned on, the compressor package will start immediately. Ensure all personnel, tools, and loose objects are clear of the unit before activating the hydraulic system.

Step 13

The system will begin to pressurize. Closely monitor pressure gauges and inspect for oil and air leaks.

Step 14

Allow compressor package to run and reach maximum operating pressure then begin to run unloaded. Compressor package pressure switch has been preset at factory during testing. Do not adjust compressor package pressure switch without consulting the factory.

Step 15

Using either the compressor tank safety relief valve or tank discharge drain, release air pressure until compressor package begins to run loaded.

Warning: When releasing air from compressor safety relief valve or tank drain, DO NOT look at valve or drain.

Step 16

Check all compressor air lines for leaks, tighten fittings as needed.

Step 17

Check compressor tank drain for proper function. If drain has a timer feature, set timer to appropriate setting. Timer operated drains have a test button, use this to check for proper function.

Warning: Never look directly at compressor drain when testing or during drain operation.

Step 18

Go over general operation and maintenance instructions of compressor package with owner and other personnel that work around the compressor package. Verify if a maintenance agreement has already been set up or if one needs to be established.

Step 19

Make sure compressor installation sheet is properly filled out to be sent in for warranty registration. Compressor is now ready for full operation.

LONG TERM STORAGE PROCEDURES:

(COMPRESSORS THAT WILL NOT BE USED FOR 60 DAYS OR MORE)

1. Drain hydraulic fluid from package/disconnect any hydraulic source from system.
2. Drain compressor oil and change filters, refill oil.
3. Check compressor intake for debris, clean out if needed (Cover compressor intake to prevent debris, insects, etc. from entering compressor intake).
4. Clean off compressor package.
5. Cover compressor to prevent debris from collecting on compressor and store in a location out of direct sunlight/rain/weather. Do not seal compressor cover as moisture may form and prematurely rust parts due to humidity not being able to escape.
6. If storage lasts 90 days or more, every 30 days manually rotate compressor pump/airend 1/4 turn.
7. If storage lasts 120 days, inspect compressor intake and discharge valves on reciprocating. Inspect compressor check valve for operation. For rotary screw compressors, inspect compressor intake and MPV valves.
8. Before putting compressor back into operation, change oil, change all filters, and check belt tension.
9. Follow install guide and proper start up procedures prior to putting air compressor back into service. (Fill out a new compressor install data sheet at time of re-installation or initial installation).

Notes

Notes

Certificate of Limited Warranty Reciprocating Compressors and Parts

All component parts on this compressor, installed by the manufacturer, are warranted to be free of defects in workmanship and material for a period of one year. Transportation charges are the responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only. The purchaser must use Synthetic Reciprocating Compressor Oil, Part Number 30100, in the compressor for the duration of the compressor warranty. There are NO express warranties other than those contained in this limited warranty statement. Covered in the one year period of the warranty are defective parts and labor only. Part defects are limited to original parts only. The compressor warranty is void in the case of abuse, lack of proper service, incorrect application, incorrect installation, and neglect. Industrial Electric stationary compressors may be repaired on site as long as the compressor is not located further than 50 miles from the service center. The purchaser is responsible for any additional travel expense beyond 50 miles from the service center. Gas/Diesel Engine Driven, Single Stage Stationary, and Contractor Series compressors must be repaired at the closest service center to the compressor. The purchaser is responsible for any travel expense if they do not wish to bring the compressor to the service center. ALL "SPECIALTY COMPRESSOR" WARRANTY SERVICE MUST BE PERFORMED AT THE CLOSEST SERVICE CENTER TO THE COMPRESSOR. A "SPECIALTY COMPRESSOR" is any compressor packaged with options other than those that apply to the standard models in the catalog. Warranty labor for the first year is only covered for work performed Monday-Friday 8am-5pm excluding all major US holidays. BEFORE WARRANTY SERVICE IS PERFORMED, CONTACT THE MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION AND APPROVAL (800-531-9656 or 972-352-6304). Warranty repairs must be authorized by the manufacturer prior to work being performed. Unauthorized work may void the package warranty. The warranty claim form MUST be submitted for any potential warranty claim to be reviewed. A copy of the original invoice must be sent in with the warranty claim form.

The limited warranty is not active until the installation sheet, included with the compressor manual, is properly filled out and returned. Failure to return the installation sheet will prevent the warranty from being active.

Certificate of Limited Warranty Parts Warranty

New parts purchased are warranted to be free from defects for a period of 1 year. Parts warranty is repair or replace only. Parts warranty is limited to the repair or replacement of the defective part only. No labor allowed for parts warranty. The defective part will be repaired or replaced. Freight and labor are not covered under the parts warranty. FOR A DEFECTIVE PART, CONTACT THE WARRANTY SERVICE CENTER (800-531-9656 or 972-352-6304).

Certificate of Limited Warranty Rotary Screw Compressors

All component parts on this compressor, installed by the manufacturer, are warranted to be free of defects in workmanship and material for a period of one year. Transportation charges are the responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only. The purchaser must use Synthetic Rotary Screw Oil, Part Number RS8000, in the compressor for the duration of the compressor warranty. There are NO express warranties other than those contained in this limited warranty statement. Covered in the one year period of warranty are defective parts and labor. Part defects are limited to original part only. The compressor warranty is void in the cases of abuse, lack of proper service, incorrect application, incorrect installation and neglect. Industrial Electric stationary compressors may be repaired on site as long as the compressor is not located further than 50 miles from the service center. The purchaser is responsible for any additional travel expense beyond 50 miles from the service center. Gas/Diesel Engine Driven compressors must be repaired at the closest service center to the compressor. The purchaser is responsible for any travel expense if they do not wish to bring the compressor to the service center. ALL "SPECIALTY COMPRESSOR" WARRANTY SERVICE MUST BE PERFORMED AT THE CLOSEST SERVICE CENTER TO THE COMPRESSOR. A "SPECIALTY COMPRESSOR" is any compressor packaged with options other than those that apply to the standard model in the catalog. The AIREND is covered by a 2 year warranty to be free from defects from manufacturing. This does not cover abuse, neglect, improper service, misapplication, or improper installation. An oil sample must be submitted with any AIREND warranty claim for verification. An "AIREND" is the rotors and bearings of the compressor. Warranty labor for the first year is only covered for work performed Monday-Friday 8am-5pm excluding all major US holidays. BEFORE WARRANTY SERVICE IS PERFORMED, PLEASE CONTACT MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION AND AUTHORIZATION (800-531-9656 or 972-352-6304). Warranty repairs must be authorized by the manufacturer prior to work being performed. Unauthorized work may void the package warranty. The warranty claim form MUST be submitted for any potential warranty claim to be reviewed. A copy of the original invoice must be sent in with the warranty claim form.

The limited warranty is not active until the installation sheet, included with the compressor manual, is properly filled out and returned. Failure to return the installation sheet will prevent the warranty from being active.

THIS POLICY IS LIMITED TO THE ITEMS ON THE INVOICE, WHICH IS ATTACHED WITH THIS DOCUMENT.

THIS INSTALLATION SHEET MUST BE FILLED OUT AND RETURNED FOR WARRANTY TO BEGIN

Hydraulic Rotary Screw and Reciprocating Compressor Installation Sheet

Compressor & Installer

Compressor Model # _____ Compressor Serial # _____
Installation Company: _____ Installation Technician: _____
Technician Signature: _____ Date: _____

Hydraulic System & Installation Status

Hydraulic Flow Rate: _____ GPM Operating Pressure: _____ PSI (Hydraulic)
Hydraulic Line Size - Pressure Line: _____ Hydraulic Line Size - Return Line: _____
Location of Install: Truck Body (Open) Van Trailer Box Truck Other: _____
Vibration Pads Properly Installed: Yes No

Performance

Max Operating Pressure: _____ PSI Tank Drain Functional: Yes No N/A
Checked All Air Fittings for Leaks: Yes No Checked Unit for Oil Leaks: Yes No
Checked Belt Tension After Start-Up: Yes No
Tank Fill Time: 0-125 PSI: _____ Write N/A if pressure not applicable to unit
0-150 PSI: _____ Write N/A if pressure not applicable to unit
0-175 PSI: _____ Write N/A if pressure not applicable to unit

All Install Steps Completed: Yes No If No, Explain: _____

Send a copy of this completed installation sheet to manufacturer to begin warranty.

Include the following:

- 1 image of the full install
- 1 image from each end of the compressor

Sales@compressed-air-systems.com

Fax 972-352-6304

Or mail to

Compressed Air Systems

600 S. 2nd Ave Mansfield, TX, 76063



Compressed Air Systems, LLC

600 S. 2nd Ave
Mansfield, TX, 76063

1-800-531-9656

Fax 972-352-6364

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