87R-4P Compressed Air System

Operation & Maintenance Manual
Dear Customer:

Congratulations on the purchase of your new JUN-AIR Industrial Compressed Air System.

This system’s intended purpose is for industrial and laboratory compression applications. It is to be used in accordance with UL1450/CSA 22.2 standards, along with all applicable codes. The system utilizes an oil-less rocking piston compressor that produces clean, dry, oil-free pressurized air flow when connected to an industrial or laboratory device. The tank ensures that a constant supply of air is available to the device.

A pressure regulator and safety relief valve are also included to ensure safe operation of the system. This manual provides installation, operation and preventative maintenance guidelines that should be followed to ensure correct/reliable performance of this system.

Please carry out all maintenance according to relevant instructions.

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Declaration of Conformity

GB  The manufacturer Gast Manufacturing, Inc. declares that the compressor is in conformity with:
• 2014/68/EU Pressure Equipment Directive
• 2006/42/EC Machinery Directive
• 2014/30/EC EMC Directive
• 2006/95/EC Low Voltage Directive
• 2011/65/EU RoHS 2 Directive
• 2012/19/EU WEEE Directive
• 1907/2006 and 340/2008 REACH Regulation

DE  Der Hersteller Gast Manufacturing, Inc. bescheinigt, dass der Kompressor entspricht:
• 2014/68/EU Druckgeräterichtlinie
• 2014/29/EU Richtlinie der einfachen Druckbehälter
• 2006/42/EC Richtlinie zur Sicherheit von Maschinen
• 2014/30/EU Richtlinie der Elektromagnetischen Verträglichkeit
• 2006/95/EC Richtlinie für Niederspannung
• 2011/65/EU RoHS Directive
• 2012/19/EU WEEE Directive
• 1907/2006 und 340/2008 REACH Regulativ

FR  Le fabricant Gast Manufacturing, Inc. déclare que le compresseur est conforme aux directives suivantes:
• 2014/68/EU Directive équipements sous pression
• 2014/29/EU Directive en relation à recipient a pression simple
• 2006/42/EC Directive sur la sécurité des machines
• 2014/30/EU Directive sur la compatibilité électro-magnétique
• 2006/95/EC Directive sur les basses-tensions
• 2011/65/EU Directive RoHS
• 2012/19/EU Directive DEEE
• 1907/2006 et 340/2008 Réglementation REACH

ES  El fabricante Gast Manufacturing, Inc. declara que el compresor está conforme con:
• 2014/68/EU Directiva de equipos a presión
• 2014/29/EU Directiva en relación a recipientes a presión simple
• 2006/42/EC Directiva de Seguridad de maquinaria
• 2014/30/EU Directiva de Compatibilidad eléctrica magnética
• 2006/95/EC Directiva de baja tensión
• 2011/65/EU Directiva de RoHS
• 2012/19/EU Directiva de WEEE
• 1907/2006 y 340/2008 Reglamento REACH

NL  De fabrikant Gast Manufacturing, Inc. verklaart dat de compressor in overeenstemming is met:
• 2014/68/EU Richtlijn Drukapparatuur
• 2014/29/EU Richtlijn voor eenvoudige drukvaten
• 2006/42/EC Machinerichtlijn
• 2014/30/EU Richtlijn inzake Electromagnetische Compatibiliteit
• 2006/95/EC Laagspanningsrichtlijn
• 2011/65/EU RoHS Richtlijn
• 2012/19/EU WEEE Richtlijn
• 1907/2006 en 340/2008 REACH Verordening

DK  Producenten Gast Manufacturing, Inc. bekræfter hermed at kompressoren er i overensstemmelse med:
• 2014/68/EU Direktivet om trykbevænelsel udstyr
• 2014/29/EU Direktivet vedrørende simple trykbeholder
• 2006/42/EC Maskindirektivet
• 2014/30/EU EMC-direktivet
• 2006/95/EC Lavspændingsdirektivet
• 2011/65/EU RoHS Direktivet
• 2012/19/EU WEEE Direktivet
• 1907/2006 og 340/2008 REACH Forordningen
### TABLE OF SYMBOLS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>A/C power</td>
</tr>
<tr>
<td>🌧️</td>
<td>Air outlet port</td>
</tr>
<tr>
<td>🌬️</td>
<td>Fuse location</td>
</tr>
<tr>
<td>⚡️</td>
<td>Ground</td>
</tr>
<tr>
<td>🕒</td>
<td>Hour meter</td>
</tr>
<tr>
<td>⚠️</td>
<td>Over-temp indicator light</td>
</tr>
<tr>
<td>🌞</td>
<td>Power on indicator light</td>
</tr>
<tr>
<td>🍍️</td>
<td>Pressure gauge</td>
</tr>
<tr>
<td>🪛</td>
<td>Pressure regulator valve</td>
</tr>
</tbody>
</table>

**DANGER:** Indicates an imminently hazardous situation which **will** result in serious or fatal injury if not avoided. This symbol is used only in the most extreme conditions.

**WARNING:** Indicates a potentially hazardous situation which **could** result in serious injury if not avoided.

**CAUTION:** Indicates a potentially hazardous situation which **may** result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.

**Electrical Shock Hazard.** Risk of electric shock present. Make sure power is disconnected before attempting this procedure.

**Industrials Electrical Equipment**
With respect to electrical shock, fire, mechanical, and other specified hazards only in accordance with UL1450.

**Equipment Alert:** Indicates a potentially hazardous situation that could result in equipment damage if not avoided.

**WARNING: To Avoid Serious Burns.** Do not touch surface during operation.

**ON** Indicates the ON and OFF position for the equipment power switch.

**FRAGILE:** Handle package with care.

**Indicates this package must be kept dry.**

**Indicates the acceptable lowest barometric pressure conditions in which this unit can be shipped.**

**Indicates the acceptable shipping temperature range.**

**Indicates package should be handled with these symbols pointing up.**

**Indicates the acceptable maximum relative humidity for shipping.**
SYSTEM FEATURES
## Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>NO DRYER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100V</td>
</tr>
<tr>
<td></td>
<td>50Hz</td>
</tr>
<tr>
<td>Continuous System Output Flow @ 4 bar (58 psi)</td>
<td>46 SLPM [1.6 SCFM]</td>
</tr>
<tr>
<td>Continuous System Output Flow @ 8 bar (116 psi)</td>
<td>27 SLPM [1.0 SCFM]</td>
</tr>
</tbody>
</table>

- Cut-in Pressure: 6 bar (87 psi)
- Cut-out Pressure: 8 bar (116 psi)
- Maximum Operational Pressure: 8 bar (116 psi)
- Dew Point Suppression: N/A
- Air Filtration: 5 μm
- Safety Relief Valve Pressure: 9.3 bar (135 psi)
- High Temperature Indication: ≥ 60 °C (140 °F) in compressor chamber
- Air Connections: 1/4 in BSPP
- Current, A: 5.0 [100V], 5.8 [115V], 4.8 [230V]
- Power Consumption, W: 450 [100V], 550 [115V], 500 [230V]
- Fuse Specifications: 12.5 A, 250 Vac, time delay
- Sound Level, dB(A): 46 [100V], 48 [115V], 46 [230V]
- Operating Ambient Conditions: 10 °C to 40 °C (50 °F to 104 °F)
- Storage Ambient Conditions: -28 °C to 65 °C [-18 °F to 149 °F]
- Barometric pressure: ≥372 mm-Hg (14.7 in-Hg)
- System Dimensions: 406 mm x 495 mm x 439 mm [16 in W x 19.5 in D x 17.3 in H]
- System Weight: 29.5 kg (65 lb)
- Shipping Weight: 35.0 kg (77 lb)
- Regulatory Certifications: UL 1450 / CSA 22.2 / CE

1. The compressor switches on and off at the cut-in and cut-out pressures, respectively. The cut-in and cut-out pressures are adjustable.
2. Membrane dryer specifications are available upon request.
3. Avoid conditions that promote condensation on the equipment.
INSTALLATION AND OPERATION

Intended Use
To provide compressed air for use with industrial or laboratory devices as a primary or back-up air source.

JUN-AIR compressor systems meet or exceed the most current and highest safety standards, which are:

- UL1450, 4th edition
- CSA C22.2 68
- ISO 9001:2008
- Ingress protection: IP50
- 2006 / 42 / EC Directive
- RoHS compliant

To ensure the safety potential of this equipment is achieved, please:

Make sure your equipment is installed according to the instructions provided in this manual and make sure the installation checklist is completed prior to starting the equipment.

DANGER
The equipment is not suitable for use in the presence of a flammable anesthetic mixture or with oxygen or nitrous oxide. DO NOT OPERATE THE EQUIPMENT IF THESE CONDITIONS EXIST.

Transportation and Storage Conditions

- Temperature: -28 °C (-18 °F) to 65 °C (149 °F)
- Relative humidity: 10% to 95%
- Minimum barometric pressure: 372 mm•Hg (14.7 in•Hg)
- Keep the system dry at all times.
- Do not stack units during shipment, installation, or usage.

Equipment Alert: Refer servicing to an authorized service representative.

Unpacking

1. Cut the banding strap from the carton and remove the lid and cardboard inserts.
2. Visually inspect the entire system for shipping damage and verify that the following accessories have been included: two (2) locking casters, two (2) non-locking casters, four (4) vibration-isolation feet, four (4) studs, four (4) washers, and one (1) power cable.
   a. If the contents were damaged during shipping, contact the freight carrier to file a claim.
   b. If parts are missing, contact the supplier.
3. Use caution when removing the system from the remaining packaging. Retain the packaging material for future use, if necessary.
4. Install the casters or rubber mounting feet.

Before You Install...

Equipment Alert: Compressors are oil-less and require NO lubrication.

Equipment Alert: The system must be installed in a temperature-controlled and/or ventilated room to ensure operational ambient temperature of 50 °F to 104 °F [10 °C to 40 °C]. A 12-inch clearance is required on each side and top of unit to allow air flow. Failure to do so could cause premature loss of system performance and void warranty.

Personal Safety

DANGER
Risk of fire or explosion when using flammable substances. Do not operate the system in an area containing combustible gases or anesthetic mixtures.

CAUTION
Never leave children unattended near the system when in use.

WARNING
Property damage and/or personal injury may result if directions are not followed or if the manufacturer’s replacement parts/accessories are not used.

WARNING
Only connect equipment suitable for the listed maximum pressure of the system.
**WARNING**
DO NOT install the system on a surface with an incline that exceeds 10°.

**WARNING**
If unit is operating at a high altitude, adjustments to the duty cycle (on time) or operating pressure may be required. Consult a service technician prior to making any adjustments.

**WARNING**
A leaking pressure relief valve may indicate a need for adjustment or repair. Consult a service technician prior to making any adjustments.

### Protection Against Electrical Shock
Provide proper grounding per NFPA 70 (NEC 2008). Do not create a current path from the equipment to ground through your body.

### Electrical Safety
- Verify that the voltage and frequency specified on the system are the same as that of the supply power.
- Never operate unit outside the specified voltage range (see “SITE REQUIREMENTS” for range).
- See “SPECIFICATIONS” for more electrical information.
- Indicator light on the system cover displays when system power is supplied and power switch is on.

### Electromagnetic Interference (EMI):
The JUN-AIR system is designed to avoid electromagnetic emissions interference with surrounding electrical equipment. Due to the vast assortment of electrical equipment available, it is possible that some interference may be experienced by the end customer. If interference is experienced, the device that is creating interference should be removed from the room where the compressor system is located. If the interference persists, then it may be necessary to confirm that both devices are connected to isolated (separated) circuits per “ELECTRICAL CONNECTIONS” in this manual. If the problem still occurs, then the two devices should be moved as far apart as possible. Finally, if the problem cannot be eliminated, contact JUN-AIR.

**WARNING**
**Electrical Shock Hazard**
The grounding wire is indicated by green insulation or green insulation with yellow stripes. Install this product in a dry location. Install this product where it will be weather protected. This product must be properly grounded. Electrically ground this product per local codes.
Check the condition of the power supply wiring. Do not permanently connect this product to wiring that is not in good condition or is inadequate for the requirements of this product.
Follow all local applied codes prior to installation.
Failure to follow these instructions can result in death, fire, or electrical shock.
Site Requirements

Specifications | 100 V 50-60 Hz | 115 V 50-60 Hz | 230 V 50-60 Hz
--- | --- | --- | ---
**Electrical**
Voltage min./max. | 90/110 | 103/127 | 207/253
Full load amps (50 Hz) | 5.0 | 4.8 | 2.6
Full load amps (60 Hz) | 5.8 | 5.3 | 2.9

Placement

- The system is intended only for indoor use in a climate-controlled and dust-free environment.
- Do NOT install/operate the system in an enclosed area where the ambient temperature could fall below 10 °C (50 °F) or rise above 40 °C (104 °F).
- Maintain a minimum clearance of 30 cm (12 in) on the top and sides of the system for service access and cooling.
- Ensure that the system is placed on a surface with an incline that does not exceed 10°.

<table>
<thead>
<tr>
<th>I</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates the ON and OFF position for the equipment power switch (system breaker)</td>
<td></td>
</tr>
</tbody>
</table>

When **ON**, the indicator light will **illuminat**e and current **WILL** be supplied to system.

When **OFF**, the indicator light will **NOT** illuminate and current **WILL NOT** be supplied to the system.

Pneumatic Connections

**WARNING**
The system should only be installed by qualified personnel in a clean, dry, well-ventilated area on a firm surface with an incline of less than 10°.

**Equipment Alert:** Verify that all leaks are sealed. Air leaks are the primary cause of premature system failures.

Connect the plumbing from the device air-inlet to the 1/4 in BSPP air-output fitting on the back panel of the system.
Electrical Connections

Equipment Alert: If a replacement fuse is required, then a 12.5 A, 250 VAC resistance time-delay fuse should be used.

Refer to the specifications table for the electrical specifications of your model.

1. Remove the screw retaining the cord anchor from the back panel of the system. Place the cord anchor around the cord and secure it to the back panel using the screw provided, ensuring enough slack in the cord to connect it to the system.

2. Plug the male IEC connector on the power cord into the female connector on the back panel of the system, ensuring it is seated securely.

3. Plug the opposite end of the cord into an outlet providing the voltage and frequency required by the system, per specifications.

<table>
<thead>
<tr>
<th>System</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Charge Time</th>
<th>Recover Time</th>
<th>Cut-In Pressure</th>
<th>Cut-Out Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1770008</td>
<td>115 V</td>
<td>50 Hz/60 Hz</td>
<td>≤55 s @ 50 Hz</td>
<td>≤30 s @ 50 Hz</td>
<td>6 bar (87 psi)</td>
<td>8 Bar (116 psi)</td>
</tr>
<tr>
<td>1770009</td>
<td>230 V</td>
<td></td>
<td>≤45 s @ 60 Hz</td>
<td>≤25 s @ 60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1770010</td>
<td>230 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1770018</td>
<td>100 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
System Checks and Tests

**WARNING**
Always switch the system off and disconnect power when removing the system cover.

1. Switch the system power on and verify that the compressor runs and the storage tank begins to pressurize.
2. Check the incoming line voltage to verify that it remains within the range specified in the Site Requirements table while the system is running. If the voltage does not remain within the specified range, contact JUN-AIR.

**NOTES:**
- The safety relief valve is set to 9.3 bar (135 psi).
- The pressure switch is set to cut in at 6 bar (87 psi) and cut out at 8 bar (116 psi). See the specifications table for details.
- Monitor the line-pressure gauge when testing for leaks.
- The tank pressure can be measured using the line pressure gauge by closing the system outlet and adjusting the regulator knob clockwise until it no longer turns.
- If the tank pressure drops more than 0.5 bar (7.5 psi) in three minutes, air leaks are present. Locate and repair the leak(s).
- Soapy water can be used to check for pressure leaks.

Operation

1. When the system is completely installed and ready for operation, it can be switched on using the power switch on the back panel. A light on the front panel will turn on to indicate that power is supplied to the system and it is operational.
2. The system will provide clean, dry air and has preset cut-in and cut-out pressures of approximately 6 bar (87 psi) and 8 bar (116 psi), respectively. Check the internal tank gauge reading to verify the pressure-switch settings. Contact your authorized dealer before adjusting the cut-in/cut-out pressures to values outside the preset range.
3. The pressure of the output air can be adjusted using the regulator knob.
4. When the system is not in use, it should be turned off using the power switch on the back panel. The indicator light on the system cover will turn off when the system is powered down.

**WARNING**
Discharge pressure in the tank prior to transporting the system or removing connections.

**MAINTENANCE**
Performing regularly scheduled maintenance will ensure your system provides you with years of superior service. To extend your system’s life, please do the following:
- Keep the system and surrounding area clean and free of debris.
- Maintain the recommended ambient temperature; high temperatures will shorten the life of the system.
- Verify that all leaks are sealed.

**WARNING**
Disconnect electrical power supply cord before performing maintenance on this product

Failure to follow these instructions can result in death, fire, or electrical shock.

**WARNING**
Injury Hazard

Discharge pressure in the tank prior to transporting the system or removing connections.

Failure to follow these instructions can result in death, fire, or electrical shock.

**WARNING**
Always disconnect power before servicing. Surface(s) can be extremely hot depending on system usage. Do not touch hot parts during or immediately after operation.
Cleaning or Replacing the System-Intake Filter Element

1. Turn the system off and disconnect it from electrical power.
2. Remove the intake filter element from the system cover and inspect for damage.
3. If cleaning the filter, use warm, soapy water and ensure that it is dry before reinstalling. If replacing the filter, discard the used element.
4. Install the new or cleaned filter element into the system cover, ensuring that it is fully seated in the cover.
5. Reconnect electrical power to the system.

NOTE: Filter kits are available for the system (see PARTS AND ACCESSORIES).

Replacing the Autodrain-Filter Element

1. Turn the system off and disconnect it from electrical power.
2. Bleed all of the air from the system.
3. Remove the handle bolts (4) and loosen the cover screws (4) to tilt the cover forward.
4. Rotate the filter bowl and drop it down slightly to remove it, using caution to avoid damaging or kinking the drain tube.
5. Remove the filter element by turning it completely out, using caution to avoid damaging the plastic element holder. Discard the used filter.
6. Install a new 5 µm filter element after verifying that it is the correct part.
7. Position the filter bowl by pushing up slightly and rotating it into place. Verify that the drain tube is not kinked or damaged.
8. Ensure that the drain tube passes through the base plate and into the evaporator tray.
9. Replace the cover and reinstall the handle bolts and cover screws.
10. Reconnect the electrical power to the system.

Replacing the Evaporator-Tray Element

1. Turn the system off and disconnect it from electrical power.
2. Remove the handle bolts (4) and loosen the cover screws (4) to tilt the cover forward.
3. Locate the evaporator tray and remove the foam.
4. Discard the used foam, clean the tray, and install new foam.
5. Replace the cover and reinstall the handle bolts and cover screws.
6. Reconnect the system to electrical power.

Replacing the Compressor-Intake Filter Element

1. Turn the system off and disconnect it from electrical power.
2. Remove the handle bolts (4) and loosen the cover screws (4) to tilt the cover forward.
3. Remove the intake filter cap by depressing and rotating it while holding the base of the filter.
4. Remove and discard the used intake filter element.
5. Install a replacement filter element and reinstall the filter cap.
6. Replace the cover and reinstall the handle bolts and cover screws.
7. Reconnect the system to electrical power.

⚠️ WARNING
Disposal of system components, deemed non-usable by the authorized dealer and the end user, should be done in accordance with all local codes. Contact your local waste management authorities to determine proper disposal methods.

⚠️ WARNING
Do not exceed the OSHA requirements of 2 bar [29 psig] air for cleaning purposes.
Pressure-Switch Adjustment

**WARNING**

Exceeding the maximum pressure may result in a reduced system life. Contact Gast Manufacturing for information regarding operation at higher pressure.

**Equipment Alert:** The factory set cut-in and cut-out pressures are approximately 6 bar (87 psi) and 8 bar (116 psi), respectively.

**Equipment Alert:** The system should operate at 50% duty cycle or less.

1. Turn the system off and disconnect it from electrical power.
2. Remove the handle bolts (4) and loosen the cover screws (4) to tip the cover forward.
3. Remove the screw retaining the pressure-switch cover and remove the cover.
4. To increase the cut-in pressure, use a 7 mm wrench or socket to turn each of the two nuts on the large springs (A) clockwise; both springs should be adjusted equally. Each half-turn raises the cut-out pressure approximately 0.25 bar (3.5 psi). The cut-in pressure can be reduced by turning the springs in the opposite direction.
5. Set the cut-out pressure by adjusting the pressure differential (the difference between the cut-in and cut-out pressures). To increase the pressure differential turn the nut on the small spring (B) clockwise. Decrease the pressure differential by turning the nut counter-clockwise. Ensure that the cut-out pressure does not exceed the maximum rated pressure of the system.
6. Replace and secure the pressure-switch cover to protect against electric shock.
7. Reconnect the system power and charge the tank and verify that the compressor switches off at the desired cut-out pressure. Should the pressure reach 9.3 bar (135 psi) ±3%, the safety relief valve will open and purge the tank.
8. Drain air from the system through the regulator to verify that the compressor switches on at the desired cut-in pressure.
9. Disconnect power and repeat steps 3-8, if necessary.
10. Replace the cover and reinstall the handle bolts and cover screws.
11. Reconnect the system to electrical power.
Testing the System for Leaks

It is recommended that leak testing be performed after any maintenance or service.

1. Close the valve to the facility plumbing.
2. Run the system until it reaches the maximum operating pressure—approximately 8 bar (116 psi).
3. Turn the system off.
4. Let the system rest for five minutes.
5. If the pressure drops more than 0.5 bar (7.5 psi) within five minutes, then leaks must be repaired.
6. Use soapy water to locate leaks and repair them as necessary.
7. Open the valve to the facility plumbing.
## Preventive Maintenance Schedule

<table>
<thead>
<tr>
<th>Interval</th>
<th>Action</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monthly</td>
<td>Remove and clean system-intake filter</td>
<td>-</td>
</tr>
<tr>
<td>Annually</td>
<td>Replace system-intake filter</td>
<td>AS562</td>
</tr>
<tr>
<td>Annually</td>
<td>Replace autodrain-filter element</td>
<td>4071009</td>
</tr>
<tr>
<td>Annually</td>
<td>Replace compressor-intake filter element</td>
<td>B300A</td>
</tr>
<tr>
<td>Annually</td>
<td>Replace evaporator-tray foam element</td>
<td>AS561A</td>
</tr>
<tr>
<td>Annually</td>
<td>Test for air leaks</td>
<td>-</td>
</tr>
<tr>
<td>Annually</td>
<td>Inspect system for functionality using system checks and tests</td>
<td>-</td>
</tr>
<tr>
<td>8,000 hours</td>
<td>Rebuild compressor</td>
<td>K964</td>
</tr>
</tbody>
</table>

## Parts and Accessories

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Kit contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>4736609</td>
<td>European power cord</td>
<td></td>
</tr>
<tr>
<td>4736621</td>
<td>UK / GBR power cord</td>
<td></td>
</tr>
<tr>
<td>4736620</td>
<td>Asian / Australian power cord</td>
<td></td>
</tr>
<tr>
<td>4736915</td>
<td>IEC C13/C14 power cord</td>
<td></td>
</tr>
<tr>
<td>4736882</td>
<td>US 115 V power cord</td>
<td></td>
</tr>
<tr>
<td>4736931</td>
<td>US 230 V power cord</td>
<td></td>
</tr>
<tr>
<td>AS560</td>
<td>Check valve</td>
<td></td>
</tr>
<tr>
<td>AS620A</td>
<td>Filter kit (annual)</td>
<td>Intake filters and evaporator filter</td>
</tr>
<tr>
<td>K964</td>
<td>Compressor rebuild kit</td>
<td>O-rings, seals, cups, cylinders</td>
</tr>
<tr>
<td>AS623</td>
<td>Rubber-mounting-feet kit</td>
<td>Four (4) rubber isolation feet and washers</td>
</tr>
</tbody>
</table>
Pneumatic Schematic
(applies to all models)

Compressor

Motor

Intake Filter

Aftercooler

5 µm Filter

Pressure Gauge
0-8 Bar (0 to 120 psi)

4 Liter Tank

Safety Relief Valve
9.3 BAR (135 psi)

Pressure Switch
CUT-IN 6.0 BAR (87 psi)
CUT-OUT 8.0 BAR (116 psi)

System Outlet
1/4 BSPT

Drain Line

Adjustable Pressure Regulator

Dump Solenoid Valve

Check Valve

Tank Purge

Manifold Block

Evaporator Tray

System Enclosure

Quick Couplings

AS613 "X" = 6mm OD Tubing
AS614 "X" = 8mm OD Tubing

AT697 Hose

Compressor Chamber

Compressor with Motor

Check Valve

Intake Filter

AS613 "X" = 6mm OD Tubing
AS614 "X" = 8mm OD Tubing

Evaporator Tray
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause(s)</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor does not start</td>
<td>No electrical power</td>
<td>Check the circuit breaker at the main power source.</td>
</tr>
<tr>
<td></td>
<td>Power not connected</td>
<td>Check the power cord at both ends.</td>
</tr>
<tr>
<td></td>
<td>Power not switched on</td>
<td>Verify that the system power switch is in the on position.</td>
</tr>
<tr>
<td></td>
<td>Defective power switch</td>
<td>The power switch needs to be replaced. Contact your authorized dealer for service.</td>
</tr>
<tr>
<td></td>
<td>Fuse is blown or damaged</td>
<td>Check the fuse(s) in the electrical inlet.</td>
</tr>
<tr>
<td>Circuit breaker trips when the compressor attempts to start</td>
<td>Voltage is too low</td>
<td>The compressor requires a minimum of 103 V/207 V. If the voltage is below the minimum required, a buck-boost transformer must be installed.</td>
</tr>
<tr>
<td></td>
<td>Solenoid valve does not open when the compression cycle ends</td>
<td>Contact an authorized dealer for service.</td>
</tr>
<tr>
<td></td>
<td>Power supply cable is too small</td>
<td>See SITE REQUIREMENTS for the current draw for the applicable system, and select the appropriate wire gauge size.</td>
</tr>
<tr>
<td></td>
<td>Loose electrical connections</td>
<td>Contact an authorized dealer for service.</td>
</tr>
<tr>
<td>Unusual or excessive noise</td>
<td>Intake filter is not seated correctly</td>
<td>Remove and replace the filter if it is clogged or dirty. Ensure that the filter chamber is clean and the filter is seated properly during installation.</td>
</tr>
<tr>
<td></td>
<td>Intake filter[s] is clogged or dirty</td>
<td>Replace the filter.</td>
</tr>
<tr>
<td></td>
<td>Noisy compressor</td>
<td>Contact an authorized dealer for service.</td>
</tr>
<tr>
<td></td>
<td>Air leaks</td>
<td>Close the storage-tank outlet valve and check all fittings for leaks. If a leak is found, contact an authorized dealer for service.</td>
</tr>
<tr>
<td></td>
<td>Cooling fan</td>
<td>Check for a loose or broken fan. Contact an authorized dealer for service.</td>
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</tbody>
</table>

(Continued on next page)
**TROUBLESHOOTING (Continued)**

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<th>Problem</th>
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<tr>
<td>Compressor cycles, but tank pressure does not reach 8 bar (116 psi)</td>
<td>Solenoid valve does not close or leaks when compressor runs</td>
<td>Check the solenoid valve and contact an authorized dealer for service.</td>
</tr>
<tr>
<td></td>
<td>Intake filter is clogged or dirty</td>
<td>Replace the intake filter(s).</td>
</tr>
<tr>
<td></td>
<td>Leak in the system</td>
<td>Close the storage-tank outlet valve and check all fittings for leaks. If a leak is</td>
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<tr>
<td></td>
<td></td>
<td>detected, contact an authorized dealer for service.</td>
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<tr>
<td></td>
<td>Leak in the device air system</td>
<td>With the compressor system connected to the device-air system and the regulator valve</td>
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<tr>
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<td></td>
<td>open, run the compressor until the cut-out pressure is reached and the compressor is</td>
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<tr>
<td></td>
<td></td>
<td>switched off, and then close the regulator valve. After five minutes, open the</td>
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<tr>
<td></td>
<td></td>
<td>regulator valve and observe the system pressure drop. If the pressure drop exceeds</td>
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<td></td>
<td>0.5 bar (7.5 psi), there is a leak in the device air system. If a leak is detected,</td>
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<td></td>
<td>contact an authorized dealer for service.</td>
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<tr>
<td></td>
<td>Cut-in and/or cut-out pressures are out of adjustment</td>
<td>Adjust the pressure switch (see MAINTENANCE).</td>
</tr>
</tbody>
</table>

**WARRANTY POLICY**

If, within the warranty time limits described below, the system or any of its components fail under normal use and service, the original user-owner must contact an authorized JUN-AIR dealer with the product sale and service records. Should the dealer not be able to complete the repair, the dealer may contact JUN-AIR for disposition. The product’s model and serial number, the installation date, and the JUN-AIR invoice number must be furnished. Transportation charges both ways must be paid by the dealer. If, upon receipt at the factory, an examination reveals faulty or defective original parts, materials, or workmanship, JUN-AIR will, at its sole discretion, rebuild or replace. This warranty does not cover damages caused by misuse, abuse, accident, or neglect. Unauthorized alterations or repairs made outside our factory will cancel this warranty and charges for them will not be allowed.

**COMPRESSOR SYSTEMS**

All compressor systems sold and installed by authorized JUN-AIR dealers are warrantied to be free from defects in parts, workmanship, and materials for 8,000 hours of operation or two (2) years from date of purchase, whichever occurs first.

This warranty excludes normal expected service items such as but not limited to: filters/filter kits, o-rings, and hoses. It also excludes add-on accessories that carry their own specific manufacturer’s warranty.
INSTALLATION CHECKLIST

- Check system for shipping damage
- Remove packaging cardboard
- Verify installation kit components
- Relocate unit to operating location and place per “SITE REQUIREMENTS”
- Attach pneumatic fittings and connections per “SITE REQUIREMENTS” and “PNEUMATIC CONNECTIONS”.
- Attach electrical connections per “SITE REQUIREMENTS” and “ELECTRICAL CONNECTIONS” requirements
- Verify incoming line voltage meets minimum and maximum values
- Turn on power to dedicated circuit and ensure unit starts. If not, refer to “TROUBLESHOOTING GUIDE”
- Perform system checks per “SYSTEM CHECKS AND TESTS”