

IMPULSORA



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Subject: Rogers KRV Series: 30 HP, 100 PSI  
Rotary Screw Air Compressor.

### **ITEM 1. Rogers KR-30-100 AIR COMPRESSOR**

#### Operating Conditions & Performance:

36-139 ACFM @ 100 PSIG  
110 PSIG Maximum Full Load Working Pressure  
100 PSIG Operating Pressure  
30 HP Motor Nominal Rating  
34.9 BHP at Operating Pressure  
28.1 Package KW @ Full Load (Includes fan motor, drive and motor losses)



Rogers KRV Series Single-Stage Package

Rogers Machinery KRV Series single stage, oil flooded, heavy duty rotary screw air compressor assembly, model KRV-30-100, with air-cooled lubricant cooler, mounted on a fabricated steel base, direct driven by a C-Flange mounted, open drip proof, premium efficient inverter duty motor optimized for constant torque operation. The assembly is complete with all standard equipment.

#### VARIABLE SPEED DRIVE

Variable speed drive (VSD), complete with keypad and combination LED/LCD graphic display, 3/60/460 volt, fully programmed, and tested with the assembly. Shipped loose for field installation. Includes the following features:

- Menu driven programming with access to all parameters
- Real time clock
- Graphic LCD to aid in diagnostics, monitoring 43 parameters
- Serial communication options
- Programmable analog outputs
- Programmable relay outputs
- Automatic input voltage regulation: -10%/+10%
- Fault input and outputs are failsafe configured
- Historical list of up to 20 faults; and if a trip/fault event occurs, it is recorded with time, date and 28 diagnostic parameter conditions at the time of the fault to aid in trouble shooting.

**Standard Features:**

- a) Compressor air end with heavy-duty inlet valve.
- b) High efficiency 5:6 rotor profile.
- c) Triple lip shaft seal.
- d) Direct driven at 3600 RPM with no high speed gearing.
- e) Heavy-duty steel base.
- f) Removable wrap flex style coupling.
- g) OSHA compliant coupling guard.
- h) Air-lubricant separation system with sight glass.
- i) Spin-on full flow lubricant filter with relief valve, 12 micron.
- j) Air-cooled lubricant cooler with automatic temperature control and fan motor.
- k) Air-cooled aftercooler with moisture separator and automatic condensate trap, mounted, pre-piped and tested.
- l) Inlet air filter/silencer with filter condition indicator on panel.
- m) ASME pressure relief valve.
- n) Minimum pressure discharge air check valve.
- o) Solenoid operated blowdown valve with muffler.
- p) Two (2) high temperature shutdowns.
- q) Lubricant level gauge.
- r) CSA listed control panel.

**GRAPHIC OPERATOR ACCESS TERMINAL**

Graphic operator access terminal with the following status and service indicators:

- a) Power on indicator.
- b) Operating compressor indicator.
- c) Loaded compressor indicator.
- d) Unloaded compressor indicator.
- e) Standby indicator.
- f) Inlet air filter service indicator.
- g) Lubricant filter service indicator.
- h) Compressor lubricant service indicator.
- i) Separator element service indicator.
- j) Dry contacts for remote indication of faulted state.
- k) Lubricant filter status indication.
- l) Motor bearings service timer.

Also included are visual alarm and shutdown for the following conditions:

- a) High air end discharge temperature.
- b) High sump temperature.
- c) Starter failure.
- d) Main motor overload.
- e) Cooling fan overload.
- f) Reset buttons for all alarm conditions.
- g) Historical list of up to 50 faults.

Digital display of the following values:

- a) Compressor percent capacity.
- b) Separator inlet temperature.
- c) Pressure drop across air/lubricant separator elements.
- d) Running hours.
- e) Loaded hours
- f) Aftercooler discharge pressure.

#### SOUND ATTENUATING ENCLOSURE

Heavy duty powder-coated steel cabinet enclosure with hinged and latching access doors to reduce sound level 82 dBA at 3' from cabinet, free field. Cabinet is ventilated by the compressor cooling fan which exhausts vertically.

Approximate Shipping Weight ... 2,220 lbs.

#### **WARRANTY:**

Our warranty on the compressor assembly quoted is as follows:

- a) One (1) year on the complete assembly.
- b) Five (5) years on the air-end.
- c) Five (5) years on the motor.