



**RELIANT™ RS85 60-85 CFM
ABOVEDECK HYDRAULIC DRIVEN
ROTARY SCREW AIR COMPRESSOR
BID SPECIFICATION
REVISED: March 24, 2017**

Type: Vanair® Reliant™ RS85. New and in current production.

Capacity: 60-85 CFM free air at up to 150 PSIG

Compressor: Vanair encapsulated oil injected rotary screw air compressor system.

Compressor Input Speed: Air compressor shall produce up to 85 CFM at up to 2850 RPM input speed.

Hydraulic Motor: Gear type hydraulic motor

Hydraulic Requirements:

CFM	60	70	80	85
Air Pressure	150	150	150	125
Compressor (RPM)	1975	2300	2650	2850
Hydraulic Flow (GPM)	14.2	16.8	18.8	19.9
Hydraulic Pressure (PSI)	2750	2800	3075	2700

CFM	60	70	80	85
Air Pressure	100	100	100	100
Compressor (RPM)	1950	2275	2650	2850
Hydraulic Flow (GPM)	14	16.7	18.5	19.7
Hydraulic Pressure (PSI)	2240	2370	2470	2470

Ratings per CAGI/PNEUROP PN2CPTC3

Compressor Drive: Air compressor shall be direct driven with an integral spline drive.

Weight: Dry weight (Lbs.): 400

Dimensions: 39.5L x 21.0W x 25.0H (In.)

Air intake Filters: Separate single stage, heavy duty, dry-type air filters shall be provided for air compressor.

Air/Fluid Separator: Separator to be externally mounted spin-on design. Vanair separator shall provide for enhanced air quality, reduced operating and maintenance cost and optimized compressor performance

Instrument Panel: Panel to include compressor air pressure gauge, hour meter, compressor oil temperature gauge and over-temperature/over-pressure reset switch.

Protective Circuit: Compressor to provide for automatic shutdown in case of high compressor temperature or over pressurization. Additional protective features provided include automatic blow down valve, compressor relief valve, minimum pressure valve and hydraulic low pressure re-engagement prevention safety.

Cooling System: Compressor cooling system shall allow rated air delivery and pressure operation continuously in 125 °F ambient temperatures. Cooler to be mounted in a powder coated sheet metal enclosure with a suction type fan assembly. (No ABS plastic shrouding) Compressor fluid shall be filtered by a 25 micron full flow spin-on replaceable filter canister. The system has a thermal valve that shall regulate compressor cooling.



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- Hydraulic Cooler:** Compressor package to include integrated hydraulic oil cooler.
- Inlet Controls:** Pneumatic inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand.
- On/Off Controls:** Compressor package to contain on/off solenoid valve, hydraulic pressure relief valve and directional safety valve to divert hydraulic oil back to reservoir for over-temperature or over-pressure conditions.
- Mainframe and Enclosure:** Fully powder-coated galvanneal mainframe and sheet metal enclosure with full service access.
- General Warranty:** The air end is warranted for life when adhering to the prescribed maintenance schedule. This warranty does not cover damage caused by accident, misuse, or negligence. If the compressor unit is disassembled the warranty is void. All other parts including the compressor unit shaft seal are warranted for twelve months subject to the same conditions mentioned above.
- Service Center:** The air compressor manufacturer must have factory authorized service centers located in each state of the United States of America and Canadian provinces.
- Options:**
- 20 - 60 Gallon Air Reservoirs
 - Aftercoolers
 - Air Hoses
 - Air Tools
 - Cold Weather Package to Prevent Freeze-Ups
 - Filter/Lubricator/Regulator (FLR)
 - Hose Reels and Fittings
 - OSHA Safety Valve (Velocity Fuse)
 - Post Drivers
 - Service/Control Line Moisture Separators
 - Tool Oiler/Lubricator
 - Service Airline De-Icer