



**RELIANT™ RS45 30 - 45 CFM
ABOVEDECK HYDRAULIC DRIVEN
ROTARY SCREW AIR COMPRESSOR
BID SPECIFICATION
REVISED: April 11, 2022**

Type: Vanair® Reliant™ RS45. New and in current production.

Capacity: 30-45 CFM free air at up to 150 PSIG.

Compressor: Vanair® encapsulated 45 CFM rotary screw air compressor system with discharge check valve to reduce horsepower consumption during unloaded condition. The compressor shall be manufactured in an ISO 9001 certified quality system.

Input Speed: Air compressor shall produce 45 CFM at 4500 RPM input speed.

Hydraulic Motor: Gear type hydraulic motor.

Performance: Low Pressure

CFM	30	35	40	45
Air Pressure	100	100	100	100
Hyd. Flow (GPM)	7.0	8.4	9.6	11
Hyd. Pres. (PSI)	1850	2000	2050	2150

High Pressure

CFM	30	35	40	45
Air Pressure	150	150	150	150
Hyd. Flow (GPM)	7.3	8.6	9.8	11.2
Hyd. Pres. (PSI)	2375	2450	2475	2550

Compressor Drive: Air compressor shall be direct drive with the hydraulic motor coupled to the air end.

Weight: Dry weight (Lbs.): 195

Dimensions: 35.3L x 21W x 22.81H (In.)

Air Intake Filters: Separate two-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: Analog panel to include compressor air pressure gauge and hour meter.

Protective Circuit: Compressor to provide provisions for automatic shutdown in case of high compressor temperature or over pressurization. Additional protective features provided include automatic blow down valve, receiver relief valve and minimum pressure valve.

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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 galvanized 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. A fan temperature switch shall be provided to regulate compressor cooling.
Hydraulic Cooler:	Compressor package to include integrated hydraulic oil cooler.
Inlet Controls:	Electric inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand.
On/Off Control:	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.
Controls:	Pneumatic inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand.
Mainframe and Enclosure:	Fully powder-coated aluminum main frame and sheet metal enclosure with full service access.
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 Centers:	The air compressor manufacturer must have factory authorized service centers located in each state of the United States of America and Canadian provinces.
Options:	Cold Weather Package with Thermal Valve 20 - 60 Gallon Air Reservoirs Aftercoolers Air Hoses Air Tools Hose Reels and Fittings OSHA Safety Valve (Velocity Fuse) Service/Control Line Moisture Separators Tool Oiler/Lubricator Service Airline De-Icer Filter Regulator Lubricator (FRL) ½ " " " " " " 24 Converter