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Reciprocating Belt Driven Air Compressors

A selection of air compressors designed & manufactured to the highest quality standards using the best raw materials & components. Proven quality, robust design & durable performance makes these the ideal choice for everyday use



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|----|--|
| 1 | INTERCOOLER |
| 2 | CYLINDER BLOCK - STURDY, WEAR RESISTANT CAST IRON CONSTRUCTION |
| 3 | OIL SUMP |
| 4 | SAFETY VALVE |
| 5 | DRAIN VALVE - FOR EMPTYING THE CONDENSATE COLLECTED IN THE TANK |
| 6 | AIR RECEIVER TANK - WITH BITUMEN LINING FOR INCREASED RESISTANCE TO RUST |
| 7 | OUTLET PORT |
| 8 | BASE PLATE - BOLTED DESIGN FOR ENHANCED RIGIDITY & RESISTANCE TO RUST |
| 9 | PRESSURE GAUGE |
| 10 | IN-BUILT STARTER WITH PRESSURE SWITCH |
| 11 | MOTOR: DESIGNED TO MEET STRINGENT EURO NORMS |
| 12 | AIR FILTER - EASILY WASHABLE, SPONGE TYPE FILTER |
| 13 | PROTECTIVE CAGE - ENHANCED SAFETY |
| 14 | BELT DRIVE |
| 15 | ALUMINIUM HEAD |

SPECIFICATIONS

| | RAC/3-21/150 | RAC/3-21/150-1 | RAC/3-21/200 | RAC/3-21/200-1 | RAC/5.5-22/200 | RAC/7.5-22/270 |
|-----------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|
| Motor Rating | 2.2 KW, 3 HP | 2.2 KW, 3 HP | 2.2KW, 3HP | 2.2KW, 3HP | 4 KW, 5.5 HP | 5.5 KW, 7.5 HP |
| Cylinders | 2 | 2 | 2 | 2 | 2 | 2 |
| Stages | 1 | 1 | 1 | 1 | 2 | 2 |
| Air Receiver Capacity | 150 litres | 150 litres | 200 litres | 200 litres | 200 litres | 270 litres |
| Air Displacement | 350 LPM / 12.4 CFM | 350 LPM / 12.4 CFM | 350 LPM / 12.4 CFM | 350 LPM / 12.4 CFM | 550 LPM / 19.5 CFM | 830 LPM / 29 CFM |
| Fad (Free Delivery) | 190 LPM / 6.7 CFM | 190 LPM / 6.7 CFM | 190 LPM / 6.7 CFM | 190 LPM / 6.7 CFM | 440 LPM / 15.53 CFM | 620 LPM / 22 CFM |
| Max. Pressure | 175 PSI / 12 BAR | 175 PSI / 12 BAR | 175 PSI / 12 BAR | 175 PSI / 12 BAR | 175 PSI / 12 BAR | 175 PSI / 12 BAR |
| Noise Level | 74±3 db (A) | 74±3 db (A) | 74±3 db (A) | 74±3 db (A) | 75±3 db (A) | 76±3 db (A) |
| Dimensions | Width | 1360 mm | 1360 mm | 1460 mm | 1460 mm | 1600 mm |
| | Depth | 460 mm | 460 mm | 460 mm | 460 mm | 500 mm |
| | Height | 990 mm | 990 mm | 990 mm | 990 mm | 1000 mm |
| Weight | 115 kg | 115 kg | 140 kg | 140 kg | 158 kg | 192 kg |
| Class Of Insulation | F | F | F | F | F | F |
| Electric Supply | 400 V, 3 Phase, 50 Hz. | 230 V, Single Phase | 400 V, 3 Phase, 50 Hz. | 400 V, 3 Phase, 50 Hz. | 400 V, 3 Phase, 50 Hz. | 400 V, 3 Phase, 50 Hz. |

Reciprocating Belt Driven Air Compressors (continued)

Dual Material Construction

World's only compressor with a unique dual material construction

- i) The cylinder block is made up of cast iron that prevents wear & tear, thus imparting longevity to the unit
- ii) Crankcase & cylinder head are made from aluminium - Compact design and choice of aluminium as a raw material helps in efficient cooling of the unit. Aluminium crankcase keeps the oil in the sump cooler, thus enhancing the performance of the unit

Efficient Ventilation

Larger flywheel keeps air directed towards the cylinder for faster heat dissipation & efficient ventilation

High pressure cylinder with higher temperature is positioned closer to the flywheel which also helps in faster cooling of the unit

Output tubing designed to pass from the front of the flywheel, further reducing the temperature of the air in the tank

In-Line Design

Compact & superior to "V" type construction: air flow in the in-line design is directed towards both the cylinders uniformly keeping maximum temperature within check as compared to the "V" type construction where air flow is directed towards one side of the "V" at any given time

Motor

Class "F" insulation, motor is designed as per EURO norms

Air Filter

Easy to maintain & replaceable sponge type air filter is easily washable

Built in Starter

Protects the unit from sudden voltage fluctuations & enables usage with varying voltages

Intercooler*

Reduces the temperature of compressed air which improves efficiency by reducing power consumption.

Bolted Design Base Plate

Makes it convenient to assemble or dis-assemble the compressor unit from the tank. Bolted design also eliminates possibility of rust as compared to a welded design

Safety Valves

In-built safety valves for safety against pressure build ups

Oil Sight Glass

For controlling the oil level

Drain Valve

For emptying the condensate collected in the tank

Caged Belt and Pulley Assembly

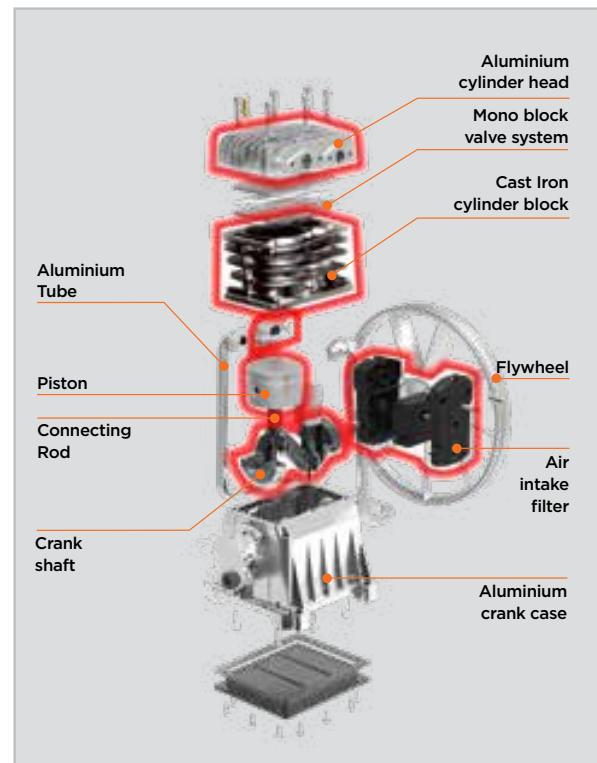
for enhanced safety in operation

* Only in multiple stage version



RAC/7.5-22/270

Exploded View of the Compressor Block



RAC

SPARE PARTS & KITS

| CAT NR. | DESCRIPTION | BOX QTY. |
|--|-----------------------------------|----------|
| 3 HP RECIPROCATING BELT DRIVEN AIR COMPRESSOR | | |
| SWH/PR/CT/150-10 | Pressure Switch - 3 Phase | 1 |
| SWH/PR/CT/150-10-1 | Pressure Switch - 1 Phase | 1 |
| KIT/RPR/SCR/EXT/CT/150-10 | Screw Kit | 1 |
| KIT/RPR/PLT/CT/150-10 | Valve Plate Kit | 1 |
| KIT/RPR/GST/CT/150-10 | Gasket Kit | 1 |
| KIT/RPR/FLT/CT/150-10 | Intake Filter Kit | 1 |
| KIT/RPR/PST/CT/150-10 | Piston Kit | 1 |
| 5.5 HP RECIPROCATING BELT DRIVEN AIR COMPRESSOR | | |
| SWH/PR/CT/100-10 | Pressure Switch | 1 |
| KIT/RPR/FLT/CT/200-10 | Intake Filter Kit | 1 |
| AF/CT/200/N | Filtering Element | 1 |
| KIT/RPR/SCR/EXT/CT/200-10 | Screw Kit | 1 |
| KIT/RPR/PST/LP/CT/200-10 | LP Connecting Rod/ Piston Kit | 1 |
| KIT/RPR/PST/HP/CT/200-10 | HP Connecting Rod/ Piston Kit | 1 |
| KIT/RPR/SCR/CT/200-10 | Screw Kit | 1 |
| KIT/RPR/GST/CT/200-10 | Gasket Kit | 1 |
| KIT/RPR/PLT/CT/200-10 | Valve Plate Kit | 1 |
| 7.5 HP RECIPROCATING BELT DRIVEN AIR COMPRESSOR | | |
| KIT/RPR/PST/LP/CT/270-10 | LP Connecting Rod / Piston Kit | 1 |
| KIT/RPR/PST/HP/CT/270-10 | HP Connecting Rod/ Piston Kit | 1 |
| KIT/RPR/SCR/CT/270-10 | Screw Kit | 1 |
| KIT/RPR/GST/CT/270-10 | Gasket Kit | 1 |
| KIT/RPR/PLT/CT/270-10 | Valve Plate Kit | 1 |
| KIT/RPR/FLT/CT/270-10 | Filter | 1 |
| AF/CT/270/N | Filtering Element | 1 |
| SWH/PR/CT/270-10 | Pressure Switch | 1 |



RAC/5.5-22/200



RAC/3-21/150



ORDERING INFORMATION

| CAT NR. | MOTOR RATING | AIR RECEIVER CAPACITY | BOX QTY. |
|----------------|-----------------------------|-----------------------|----------|
| | | (LITRES) | |
| RAC/3-21/150 | 2.2 KW, 3 HP | 150 | 1 |
| RAC/3-21/150-1 | 2.2 KW, 3 HP (Single Phase) | 150 | 1 |
| RAC/3-21/200 | 2.2 KW, 3 HP | 200 | 1 |
| RAC/3-21/200-1 | 2.2 KW, 3 HP (Single Phase) | 200 | 1 |
| RAC/5.5-22/200 | 4 KW, 5.5 HP | 200 | 1 |
| RAC/7.5-22/270 | 5.5 KW, 7.5 HP | 270 | 1 |