

LFx 0.7-2.0

ATLAS COPCO OIL FREE PISTON COMPRESSOR

General Description

LFx, a single stage Oil Free reciprocating compressor designed for operation at maximum pressure of 10 bar (145psi) and capacities from 1.02 up to 2.53 l/s at 50Hz, 2.86 to 5.06 cfm at 60 Hz.



Working Principle

Filtered air is entered through the inlet valve into both cylinders. The piston is driven forward through the connection rod attached to the balanced crankshaft. The air is compressed in the cylinder that leaves through the outlet valve when the required pressure of 10 bar (145 psi) is reached.

Scope of Supply

Drive arrangement

The standard drive arrangement is direct drive with electrical motor. However, the compressor block can also be directly driven by a hydraulic motor, diesel or petrol motor and kit is available for belt drive arrangement.

Electrical Regulation

The standard electrical regulation occurs by means of pressure switch that starts/stops the compressor at pre-set pressures. All units are also supplied with over load relay. In standard models, the cylinder heads are always de-pressurized if the units is stopped via pressure switch. On units with Direct on Line (DOL) start this is done through the pneumatic Unloader located inside the pressure switch box. Units with Y/D start are supplied with an Industrial Unloader Valve and Solenoid valve to de-pressurized the cylinder heads both stopping and starting the unit. Starting the compressor without back pressure in combination with special Y/D motor dramatically reduces start-up current. A cubicle is needed to manage the motor running between Y and D and to control the Industrial Unloader Valve.

LFx Power Box

- Check valve
- Electrical Unloader (solenoid valve)
- Super flow system
- Silenced



LFx Trolley

- Check valve
- Electrical Unloader (solenoid valve)
- Super flow system
- Silenced
- Wheels
- Hand handling
- 20lt vessel



LFx Tank Mounted

- Check valve
- Electrical Unloader (solenoid valve)
- Super flow system
- Silenced
- Pressure reducer
- 24/50/90/270lt vessel
- CD dryer like option



Features & Benefits

Compact & Space Saving

- 1 cylinder directly coupled to the motor.
 - Ideal for integration with limited space requirement
 - Low vibration and excellent cooling

Highest reliability

- Renowned Experience
 - Engineered to wide variety of specific sectors such as marine and railway, certified by leading official classification bodies.
- Robust Design
 - Extended product life, Straight forward maintenance and vast options for different applications