

## LFx 0.7-2.0 Dental

### ATLAS COPCO OIL FREE PISTON COMPRESSOR

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#### General Description

LFx Dental, 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.

Specifically design for Dentist and laboratory.



#### 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 backpressure 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 Dental Tank Mounted**

- Highly efficient inlet filter
- Certified ISO 8573-1 Class 0 oil free operation
- Check valve
- Solenoid valve



### **LFx Full Feature**

- Desiccant air dryer
- Certified ISO 8573-1 Class 0 oil free operation
- Check valve
- Solenoid valve
- Internally epoxy-coated receiver
- Safety valve
- Pressure reducer
- CD/SD dryer



## **Features & Benefits**

### **Compact & Space Saving**

- 1 cylinder directly coupled to the motor.
  - 100% Load cycle
  - Low vibration and excellent cooling

### **Highest reliability**

- Renowned Experience
  - Engineered for offering Class 0 product
- Robust Design
  - Extended product life, Straight forward maintenance and vast options for different applications