

SCREW AIR COMPRESSOR with Integrated Air Dryer and Filter Model : G15FF - 15KW



GENERAL DESCRIPTION:

The G15 oil injected screw air compressor, provide an energy efficient, reliable work place air compressor that minimizes the total cost of ownership. This air compressor is designed to withstand the harshest of environments while providing you with a quiet air compressor with sound levels ranging between 67 and 71 dB (A). The G15 series is designed and manufactured in accordance with ISO 9001, ISO 14001 and ISO 1217 which insures a reliable trouble-free air compressor. As standard these units are designed to operate up to 46°C/115°F ambient conditions and are available as a stand-alone compressor (Pack) or including an integrated dryer (Full Feature).

WORKING PRINCIPLES

Air is drawn in through the air filter and the inlet valve into the compression element. This compressed air is forced through the air/oil separator, past the minimum pressure valve, through the after-cooler and into the receiver (if included). In the case of a Full Feature unit, the air will then circulate through the refrigerated dryer to leave the unit through to the discharge. In case of a Full Feature Tank Mounted unit, we have a dry tank, which increases the lifetime of the tank considerably.

Oil Separator System, Oil Filter and Consumables

High efficiency 2 step air oil separator system for reduced oil consumption ensuring low maintenance costs and good oil separation result between service intervals.

The oil filter cleans the oil continuously from particles bigger than 25 micron with 99% efficiency in order to protect the lubrication quality and health of the rotating components.

FEATURES & BENEFITS;

ROBUST PERFORMANCE

- 100% continuous duty cycle.
- Up to 46°C/115°F Ambient temperatures
- Silent Operation
- Full feature version with integrated refrigerant dryer & Filter

SIMPLE INSTALLATION & MAINTENANCE

- Available in multiple configurations, including floor or tank-mounted.
- Extremely small footprint with possible placement against a wall or in a corner.
- Main components, oil separator & filter are easily accessible.

SIMPLIFIED CONTROL & REGULATION SYSTEM

- Icon-based display, pressure settings, temperature reading.
- Running hours and working hours @ load counters
- Service warnings for optimal protection
- Outlet pressure setting directly on the controller.
- Pressure and element outlet temperature

AIR DRYER

- The integrated dryer efficiently removes moisture, aerosols and dirt particles to protect your complete installation. This quality air expands the life of equipment, increasing efficiency and ensuring quality in your final product. Pressure dew point at 3°C /37°F at maximum FAD. (100% relative humidity at 20°C/68°F).

QUIET OPERATION

- Sound insulated canopy o No separate compressor room required. Allows for installation in most working environments.

HIGHEST RELIABILITY

- Robust Air Filter or Offers long lifetime and high reliability for long service intervals and low maintenance needs. Air filter is very easy to replace.
- IP55 (TEFC) IE3 Motor o totally enclosed fan cooled motor insures reliability. Efficiency ratings at or above premium regulations



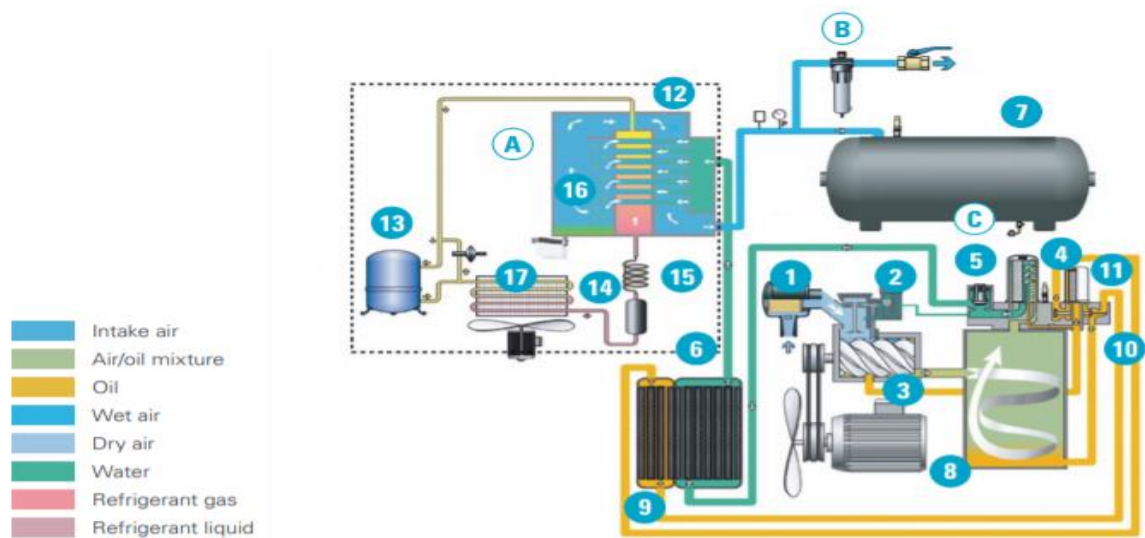
TSF
MACHINERIES

Technology Solution
Factories Machines TR L.L.C
شركة حلول التقنية
لتجارة معدات المصانع ذ.م.م

Reliable supply of compressed air makes for smooth production. High quality parts and generous safety margins ensures continuous operations in temperatures up to 46°C.



FLOW CHART:



Variants

This variant is integrated with a refrigerant Air dryer in the bodywork. The dryer removes moisture from the compressed air by cooling the air to near freezing point and automatically draining the condensate. All full features variants are mounted on a 500L air tank with a manual drain valve.

Standard Scope of Supply

The compressor includes air, drive, lubrication, cooling, control and regulation systems. All enclosed in an attractive noise suppression steel canopy.

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Air system

- Inlet air filter
- Load / No load inlet check valve
- Atlas Copco high efficient rotary screw element
- Minimum pressure valve
- Safety valve
- 500L air tank with a manual drain valve(except Pack Floored Mounted variant)
- Discharge air shut-off valve

Drive system

- Totally enclosed fan-cooled (TEFC/IP55) squirrel cage induction motor
- V-belts with optimum notch profile
- Pulleys
- Belt tensioning system

Lubrication system

- Aluminium oil cooler
- Air/oil separation vessel with oil level sight glass
- Drain connection and filling plug
- Spin-on oil filter
- Spin-on air/oil Separator
- Non-return valve
- Thermostatic valve
- Factory filled oil

Cooling system

- one cooling fan, driven by the main motor

Control and regulation system

- 50Hz IEC approved control cubicle
- Power conscious, efficient, automatic load / unload regulation system, including inlet valve and solenoid valve
- Motor overload relay mounted and wired.
- Elektronikon 001 controller
- Pressure switch, which opens and closes at pressure limits
- Temperature switch prevents damage resulting from too high temperature at the outlet of the compressor element
- All wiring



Elektronikon 001 Comprises

- Pressure gauge indicating the discharge air pressure
- Hour meter indicating the total motor running time
- Start, stop and emergency stop switch
- Dewpoint Gauge (Full feature variant only)
- Automatic operation lamp

Sound-insulated canopy

Integrated dryer (Full feature variant)

- 50Hz IEC approved integrated refrigerant Air dryer with water separator and electric drain valve.

TECHNICAL SPECIFICATION:

Model	: G15FF - 15KW
Brand name	: Atlas Copco
Maximum Working Pressure	: 10 bar(e) : 145 psi : 29.1 l/s
Capacity FAD	: 104.8 m³/h : 61.7 cfm
Installed Motor Power	: 15kW : 20 hp
Noise Level	: 67 dB (A)
Length	: 1533 mm
Width	: 590 mm
Height	: 1332 mm
Weight	: 338 kg
500L Tank Included	
PD Filter Included	
Integrated Dryer Included	
Brand New	: Made in Italy

PD AIR FILTERS:

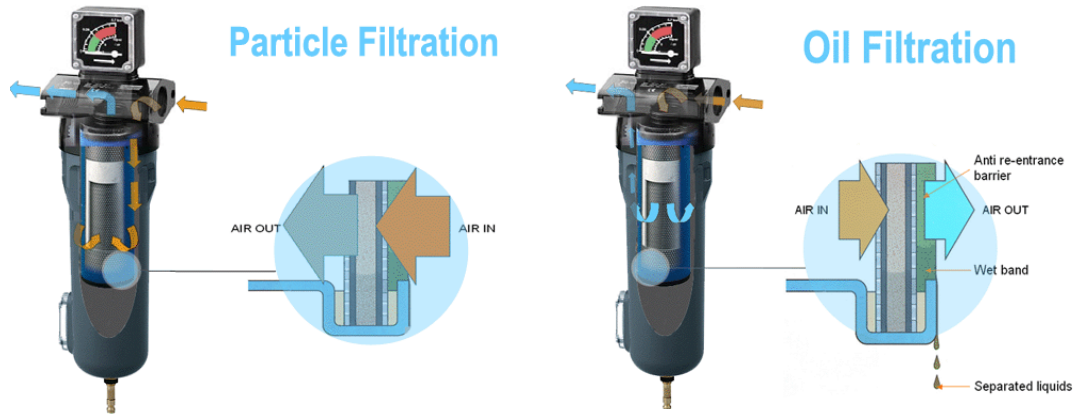
Model PD

Clean and dry air is an essential part of modern production process. Untreated compressed air containing moisture, aerosols and dirt particles poses a substantial risk as it can damage air system, tools and machines or even contaminate your end product.

PD filters

- The **PD** Series are high efficiency filters, coalescing and dust compressed air filters.
- Removing liquid water and oil aerosols 0,01 mg/m³ and particles down to 0,01 micron.

- They consist of the filter element(s), housing, differential pressure gauge and float drain.



Machine Video:

<https://www.youtube.com/watch?v=a0gpnNvk35s>