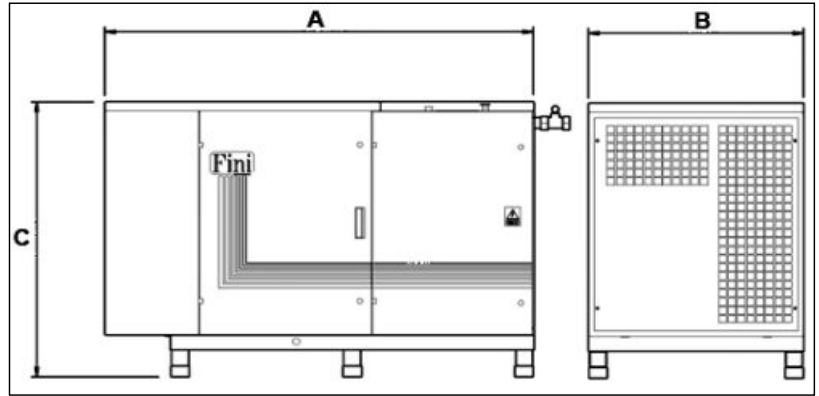


Specification Sheets



Model: MEGA 6013 **Code:** BBC-06013 **Cat. Ref:** BF01

Compressor Package

Model:	Mega 6013
Make:	Fini
Country of origin:	Italy
Free Air Delivery (lit/min / cfm @ 1300kPa):	5100 / 180
Rated Working Pressure (kPa):	1300
Load / Unload (kPa)	Adjustable
Operation:	Continuous / Stop Start
Noise level (PNEUROP PN8NTC2.2) (dB(A)):	74
Air cooled Aftercooler:	Included
Final air discharge temp above ambient (°C):	19
Max. Ambient temperature (°C):	50
Min. Ambient temperature (°C):	5
Automatic Star Delta Starter:	Included
Max. Oil content in the air at discharge (mg/m³):	4
Drive:	Poly-vee
Air End model:	Tamrock E12
Number of stages:	1
Total Heat removed (kJ/h):	153900
Fan flow rate (m³/h):	5200
Discharge air temp. shutdown (°C):	110
Discharge air temp. warning (°C):	105
Qty oil fill (lt):	18
Qty oil for topping-up (lt):	3
Air outlet connection (bsp):	1 1/4"

Electric Motor

Type:	TEFC
Power (kW):	45
Power (HP):	60
Voltage / Hz / Ph:	400 / 50 / 3
Full load amps:	77
Motor Protection:	IP55
Motor Insulation class:	F
Max. Start-up per hour (n⁰):	10
Motor Speed:	2 - Pole
Breaker Size:	125 Amps Curve D
Cable Size (under 15m) (mm²):	25

Key Dimensions (mm)

A	1750
B	900
C	1250

Key Parts - Description

<u>Description</u>	<u>Code</u>
Air Filter:	CTB-017026000
Oil Filter:	CTB-048033000B
Oil 5lt:	KBA-ROTENERGY-005L

Dimensions

Dimensions (L.W.H. mm) (No Packing):	1750 X 900 X 1250
Mass (kg) (No Packing):	745
Approx Dimensions (L.W.H. mm) (Packaged):	1770 X 920 X 1270
Approx Mass (kg) (Packaged):	160

POSITIONING THE COMPRESSOR

Upon installation, make sure that the chosen place is in compliance with all prevailing national safety standards and meets the following requirements:

- **low percentage of dust suspended in air,**
- **shop must be suitably sized and well ventilated so that room temperature never exceeds 40 °C** when the compressor is working. If this is not the case, install one or more exhaust fans to extract hot air. Ideally, the fans should be installed close to the ceilings.

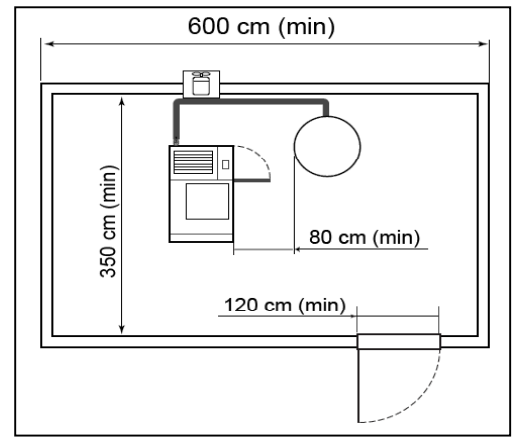
Exhaust flow rate "2000 m³/hr" part no. 020041000

Exhaust flow rate "4000 m³/hr" part no. 020042000

Dimensions are just approximate. Try nevertheless to respect them as much as possible.

A drainage pit or can shall be used to collect tank condensate.

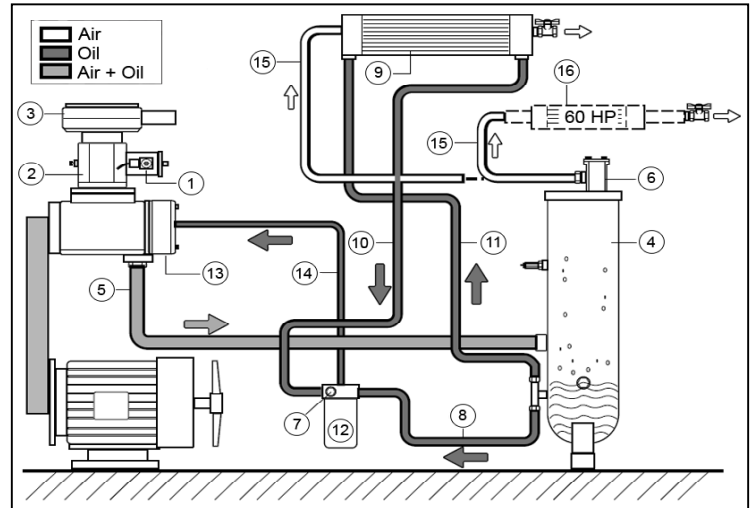
Once machine is positioned and stable, fit supplied cock in its seat on radiator side; seal with Teflon tape. Connect compressor and air tank through the connection hose supplied with the machine (do not position check valves between tank and compressor).



OPERATION

WORKING CYCLE

- **At first start-up**, the motor starts in the "star" configuration. In this phase the compressor starts slowly, the solenoid valve (1) is open and the suction regulator (2) is closed.
- **The compressor** is kept under these conditions for about 4 seconds.
- **This time over**, motor is "delta" powered. The solenoid valve (1) is energized it closes and enables suction regulator (2) opening, which sucks in air through the filter (3).
- During this stage, the compressor is working at full speed and starts compressing air inside the oil separator reservoir (4) through tube (5).
- **Compressed air** cannot escape through the minimum pressure valve (6), which is set at 3-4 bar.
- **Compressed air** compresses oil inside the reservoir (4) and causes it to flow through the tube (8) to the thermostat (7).
- If oil temperature is below 50 °C, oil is directly delivered to the screw compressor through tube (14).
- If oil temperature is above 50 °C, the thermostat closes the passage and oil is delivered to the radiator (9) through the tube (11).
- Cooled oil is returned to oil filter (12) through tube (10) and then to screw compressor through tube (14).
- **From the filter (12)**, oil reaches the compressor (13) through the tube (14). Oil is mixed with sucked air to form an air/oil mixture that provides sealing and lubrication of compressor moving parts.
- **The air/oil mixture** flows back to reservoir (4) where air and oil are first separated by centrifugation and then by the oil separator filter.
- **As a result**, reservoir (4) will deliver air only to air radiator (16) (separate on Rotar 69) or (9) (oil-air radiator on Rotar 50) through tube (15). Air is then conveyed to mains through a cut-off cock.
- **Minimum pressure valve (6)** serves also as a check valve.
- **Compressor** delivers compressed air to outer air tank.
- **Tank inner pressure** increases until reaching maximum set value.
- **Once maximum value is reached**, pressure gauge starts timer and powers off solenoid valve (1) of regulator (2).
- **Regulator (2)** closes and compressor stops compressing and starts idling.
- **Timer** continues counting until reaching set value and, if pressure is unchanged, stops the electric motor. If pressure drops to minimum value set on controller, solenoid valve (1) energized and closes before timer counting is over.
- **Regulator (2)** opens and compressor operates under normal load; timer is reset.
- **This cycle** is automatically repeated.



START-UP

Before starting the machine up for the first time, **make sure that:**

- the power supply voltage corresponds to the voltage indicated on the CE plate;
- the electrical connections have been made using adequately sized cables;
- the master switch (on the wall) has suitable fuses;
- the oil level is higher than the minimum (where necessary, fill using oil of the same type);
- the air outlet cock is completely open.

The first start-up of the compressor must only be carried out by a specialised technician.

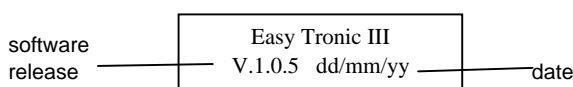
Press the button:

If the machine does not start and the message "rot.dir.errors" appears on the display:

switch off the electrical power using the wall switch, open the electrical cabinet door and invert the position of two phases in the terminal box, close the door, restore the voltage and restart the machine.

If the machine starts on the first try:

Display status at start-up (remains for 5 seconds)



Display status during normal functioning

