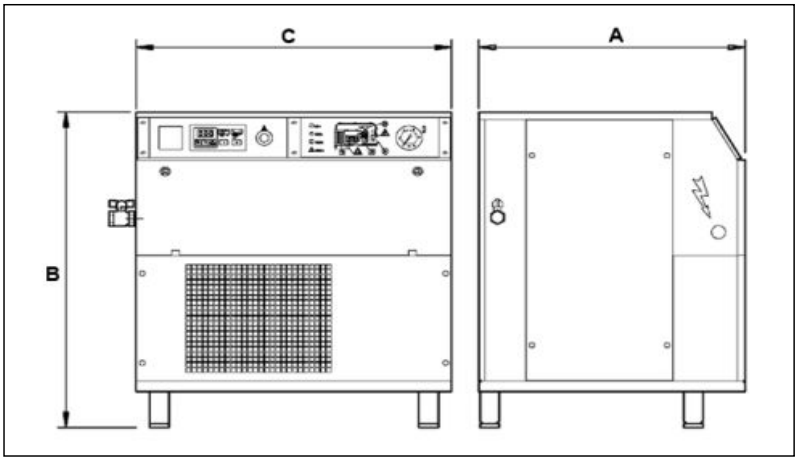
Specification Sheets



Model: **BSC 2013 R-EVO** **Code:** **BBC-BSC 2013** **Cat. Ref: BB03**

Compressor Package

Model:	BSC 2013 R-EVO
Make:	Fini
Country of origin:	Italy
Free Air Delivery (lit/min / cfm @ 800kPa):	1700 / 60
Rated Working Pressure (kPa):	1300
Load / Unload (kPa)	Adjustable
Operation:	Continuous / Stop Start
Noise level (PNEUROP PN8NTC2.2) (dB(A):	68
Air cooled Aftercooler:	Included
Air Dryer	No
Final air discharge temp above ambient (^{0}C):	15.4
Max. Ambient temperature (^{0}C):	50
Min. Ambient temperature (^{0}C):	5
Automatic Star Delta Starter:	Included
Max. Oil content in the air at discharge (mg/m^3):	4
Drive:	Poly-vee
Air End model:	FS50 TF
Number of stages:	1
Total Heat removed (kJ/h):	51300
Fan flow rate (m^3/h):	2000
Discharge air temp. shutdown (^{0}C):	110
Discharge air temp. warning (^{0}C):	105
Qty oil fill (lt):	5
Qty oil for topping-up (lt):	1
Air outlet connection (bsp):	3/4"

Dimensions

Dimensions (L.W.H. mm) (No Packing):	810 X 690 X 880
Mass (kg) (No Packing):	230
Approx Dimensions (L.W.H. mm) (Packaged):	830 X 710 X 900
Approx Mass (kg) (Packaged):	245

Electric Motor

Type:	TEFC
Power (kW):	15
Power (HP):	20
Voltage / Hz / Ph:	400 / 50 / 3
Full load amps:	30
Motor Protection:	IP54
Motor Insulation class:	F
Max. Start-up per hour (n^0):	10
Motor Speed:	2 - Pole
Breaker Size:	50 Amps Curve D
Cable Size (under 15m) (mm^2):	6

Key Dimensions (mm)

A	690
B	880
C	810

Key Parts - Description	**Code**
Air Filter:	CTB-017093000
Oil Filter:	CTB-048033000A
Oil 5lt:	KBA-ROTENERGY-005L

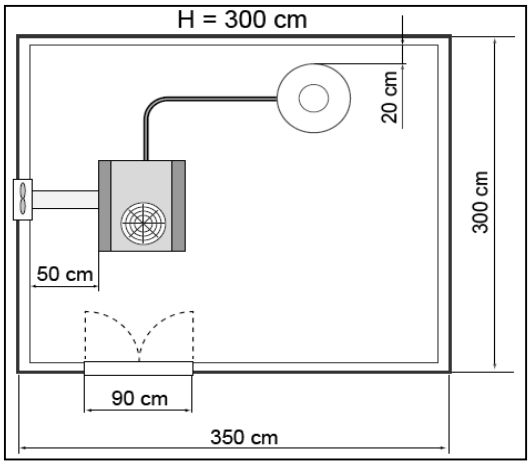
POSITIONING THE COMPRESSOR

The pre-selected place for installation of the compressor must have the following as well as having the features requested by the Accident-prevention Standards in force:

A) Low percentage of dust particles.

B) Adequate ventilation and dimensions that allow (with machine running) to maintain the environmental temperatures (5 ^{0}C - 45 ^{0}C).

C) In the case of inadequate output of hot air, install the suction devices as high as possible.

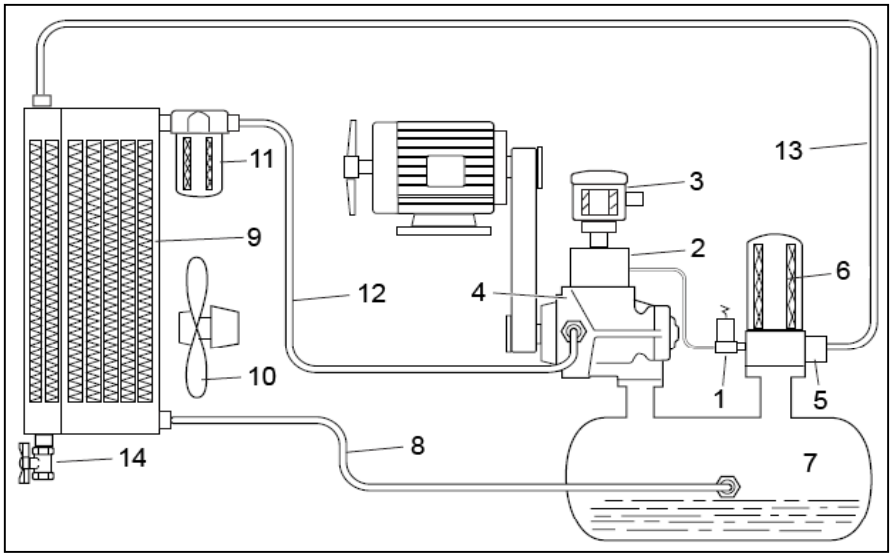


N.B.: The dimensions of the spaces are indicative.

The condensation is a polluting mixture and must be dispersed in the environment or in the drain system. Prepare a colelction container, which must have a valve and a removable recipient connected to appropriate EW18 code 548200000 water-oil separator appliance. Dispose of the oil and or condensation according to laws in force.

OPERATION

WORKING CYCLE



· On commissioning, the motor starts fed in the "star" connection. In this phase the electrovalve (1) is open, the suction adjuster (2) is closed.

· **The compressor** remains in these conditions for about 5-7 seconds.

· **After this period of time,** the motor is "trianglefed": the electrovalve (1) receives current and closes allowing the suction adjuster (2) to open, which sucks in atmospheric air through the filter (3).

· In this case the compresosr functions in full working order and starts to compress the air inside the tank (7).

· **The compressed air** cannot exit from the minimum pressure valve (5) which is adjusted at 3-4 bar.

· **The compressed air** compresses the oil inside the tank (7) and makes it flow through the pipes (8).

· The oil reaches the radiator (9) and passing through the filter (11) and the piping (12) reaches the compressor (4) where it mixes with the sucked air creating an air/oil mixture, which guarantees tightness and lubrication of the compressor's moving parts.

· **The air/oil mixture** returns into the tank (7), where the air undergoes a centrifugal pre-separation and successively a definite separation of the oil by means of the oil-separator filter (6).

· **Therefore only air exits the tank,** which through the pipes (13) reaches the radiator (9) and through the interception tap (14) goes to the network.

· **The light residues of oil** deposited on the base of the oil-separator filter are re-introduced into the compressor

START-UP

COMMISSIONING

Before commissioning the machine, **ensure that:**

- the power supply voltage corresponds to that indicated on the CE label,
- the electric connections have been carried out using cables with adequate section and that they are fastened well,
- the master switch (on the wall) has suitable fusing,
- the oil level is above minimum level (top up with the same type of oil if necessary),
- the air exit tap is completely open.

THE CONNECTION OF THE TANK MUST BE CARRIED OUT USING A FLEXIBLE PIPE.

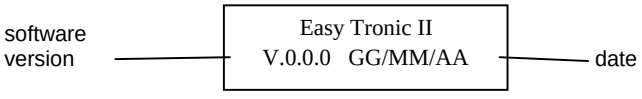
Only specialised technicians can start the compressor (on-site testing) for the first time.

· Commissioning of the compressor must be carried out by a specialised technician.

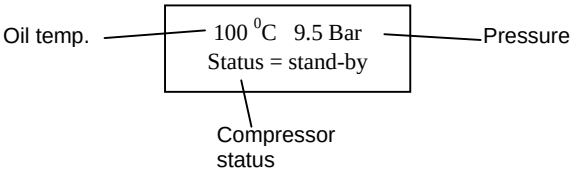
If the machine does not start-up and the "Dir. Of rotation error" message appears on the display interrupt the electric power supply using the wall-mounted master switch, open the electric cabinet door and invert the position of the two phases in the terminal board, close the door, restore the voltage and re-start the machine.

Display status during compressor operation

Display status at start (remains for 5 seconds)



Display status during normal functioning



In order to visualise the total functioning time at any moment, press the **Δ** key. The visualisation will last for 20 secodns.