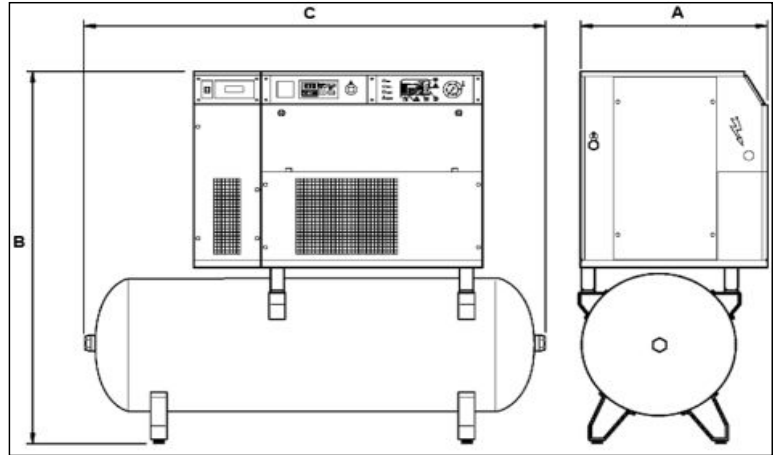


## Specification Sheets



**Model:** BSC 1010 500F-ES R-EVO    **Code:** BBB-BSC 1010-500F-ES    **Cat. Ref:** BB03

### Compressor Package

<b>Model:</b>	BSC 1010 500F-ES R-EVO
<b>Make:</b>	Fini
<b>Country of origin:</b>	Italy
<b>Free Air Delivery (lit/min / cfm @ 800kPa):</b>	1100 / 38.8
<b>Rated Working Pressure (kPa):</b>	1000
<b>Load / Unload (kPa)</b>	Adjustable
<b>Operation:</b>	Continuous / Stop Start
<b>Noise level (PNEUROP PN8NTC2.2) (dB(A)):</b>	69
<b>Air cooled Aftercooler:</b>	Included
<b>Air Dryer</b>	Included
<b>Final air discharge temp above ambient (°C):</b>	9
<b>Max. Ambient temperature (°C):</b>	50
<b>Min. Ambient temperature (°C):</b>	5
<b>Automatic Star Delta Starter:</b>	Included
<b>Max. Oil content in the air at discharge (mg/m³):</b>	4
<b>Drive:</b>	Poly-vee
<b>Air End model:</b>	FS26 TF
<b>Number of stages:</b>	1
<b>Total Heat removed (kJ/h):</b>	25650
<b>Fan flow rate (m³/h):</b>	2000
<b>Discharge air temp. shutdown (°C):</b>	110
<b>Discharge air temp. warning (°C):</b>	105
<b>Qty oil fill (lt):</b>	5
<b>Qty oil for topping-up (lt):</b>	1
<b>Air outlet connection (bsp):</b>	3/4"

### Electric Motor

<b>Type:</b>	TEFC
<b>Power (kW):</b>	7.5
<b>Power (HP):</b>	10
<b>Voltage / Hz / Ph:</b>	400 / 50 / 3
<b>Full load amps:</b>	16
<b>Motor Protection:</b>	IP54
<b>Motor Insulation class:</b>	F
<b>Max. Start-up per hour (n°):</b>	10
<b>Motor Speed:</b>	2 - Pole
<b>Breaker Size:</b>	25 Amps Curve D
<b>Cable Size (under 15m) (mm²):</b>	4

### Key Dimensions (mm)

<b>A</b>	700
<b>B</b>	1530
<b>C</b>	2000

### Key Parts - Description

<u>Description</u>	<u>Code</u>
<b>Air Filter:</b>	CTB-017093000
<b>Oil Filter:</b>	CTB-048033000A
<b>Oil 5lt:</b>	KBA-ROTENERGY-005L

### Dimensions

<b>Dimensions (L.W.H. mm) (No Packing):</b>	2000 X 700 X 1530
<b>Mass (kg) (No Packing):</b>	395
<b>Approx Dimensions (L.W.H. mm) (Packaged):</b>	2020 X 720 X 1730
<b>Approx Mass (kg) (Packaged):</b>	410

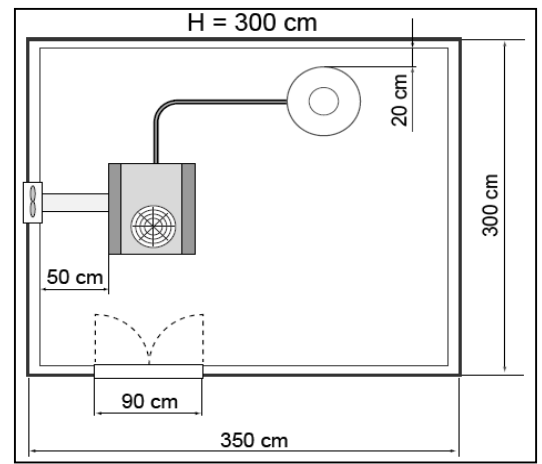
## POSITIONING THE COMPRESSOR

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 °C - 45 °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.

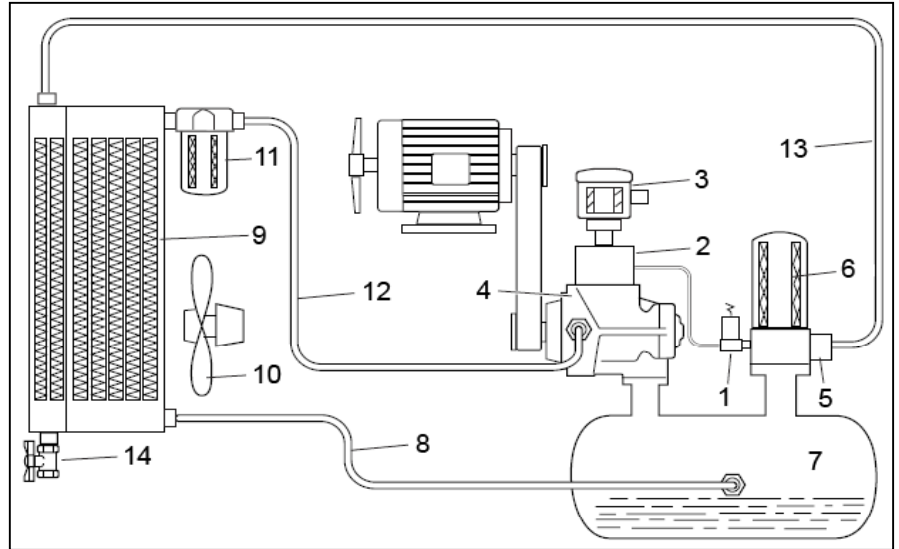
The condensation is a polluting mixture and must be dispersed in the environment or in the drain system. Prepare a collection container, which must have a valve and a removable recipient connected to appropriate EW18 code 548200000 water-oil separator appliance. Dispose of the oil and or condensation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

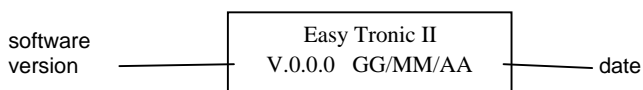
**Only specialised technicians can start the compressor (on-site testing) for the first time.**

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

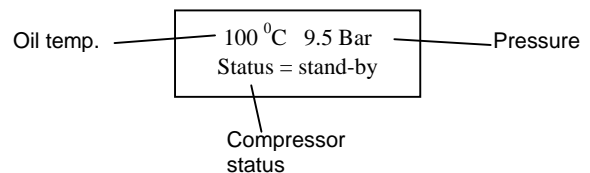
**If the machine does not start-up and the "Dir. Of rotation error" message appears on the display interrupt the electric power supply** using the wall-mounted master switch, open the electric cabinet door and invert the position of the two phases in the terminal board, close the door, restore the voltage 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 **▲** key. The visualisation will last for 20 seconds.