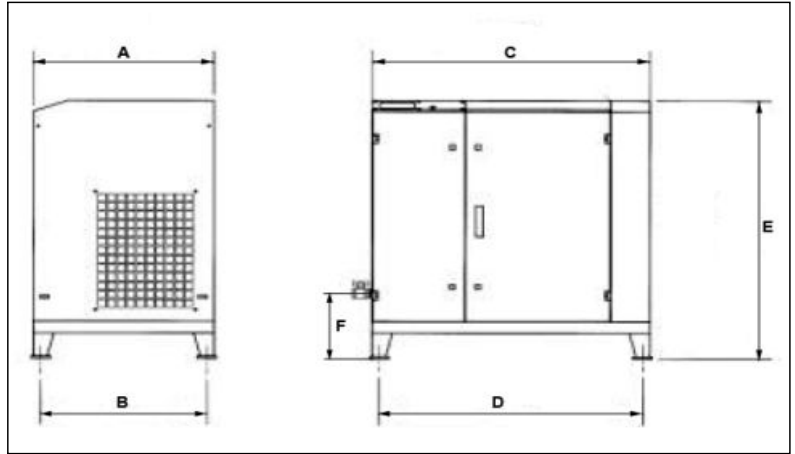


Specification Sheets



Model: PLUS 2513 **Code:** BBC-02513PLUS **Cat. Ref:** BE01

Compressor Package

Model:	Plus 2513
Make:	Fini
Country of origin:	Italy
Free Air Delivery (lit/min / cfm @ 800kPa):	2050 / 72
Rated Working Pressure (kPa):	1300
Load / Unload (kPa)	Adjustable
Operation:	Continuous / Stop Start
Noise level (PNEUROP PN8NTC2.2) (dB(A)):	70
Air cooled Aftercooler:	Included
Final air discharge temp above ambient (°C):	7
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:	FS50 TM
Number of stages:	1
Total Heat removed (kJ/h):	63270
Fan flow rate (m³/h):	2931
Discharge air temp. shutdown (°C):	110
Discharge air temp. warning (°C):	105
Qty oil fill (lt):	7
Qty oil for topping-up (lt):	0.5
Air outlet connection (bsp):	3/4"

Dimensions

Dimensions (L.W.H. mm) (No Packing):	1120 X 750 X 1260
Mass (kg) (No Packing):	375
Approx Dimensions (L.W.H. mm) (Packaged):	1140 X 770 X 1280
Approx Mass (kg) (Packaged):	390

Electric Motor

Type:	TEFC
Power (kW):	18.5
Power (HP):	25
Voltage / Hz / Ph:	400 / 50 / 3
Full load amps:	36
Motor Protection:	IP54
Motor Insulation class:	F
Max. Start-up per hour (n⁰):	10
Motor Speed:	2 - Pole
Breaker Size:	63 Amps Curve D
Cable Size (under 15m) (mm²):	10

Key Dimensions (mm)

A	750
B	656
C	1120
D	1046
E	1260
F	165

Key Parts - Description

Key Parts - Description	Code
Air Filter:	CTB-017026000
Oil Filter:	CTB-048033000B
Oil 5lt:	KBA-ROTENERGY-005L

POSITIONING THE COMPRESSOR

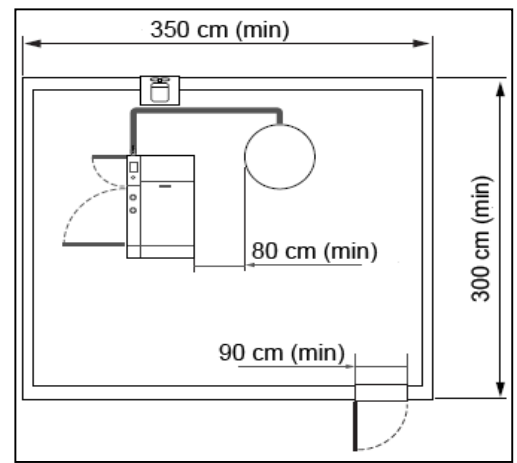
The room chosen for the installation of the compressor should meet the following requirements and comply with what is specified in the current safety and accident prevention regulations:

- low percentage of fine dust,
- proper room ventilation and size so to keep room temperature under 50 °C.

In the event of inadequate hot air discharge, fit one or more exhaust fans. Fit the exhaust fans as high as possible.

Exhaust flow rate "2000 cu.m./h" part no. 020041000
 Exhaust flow rate "4000 cu.m./h" part no. 020042000

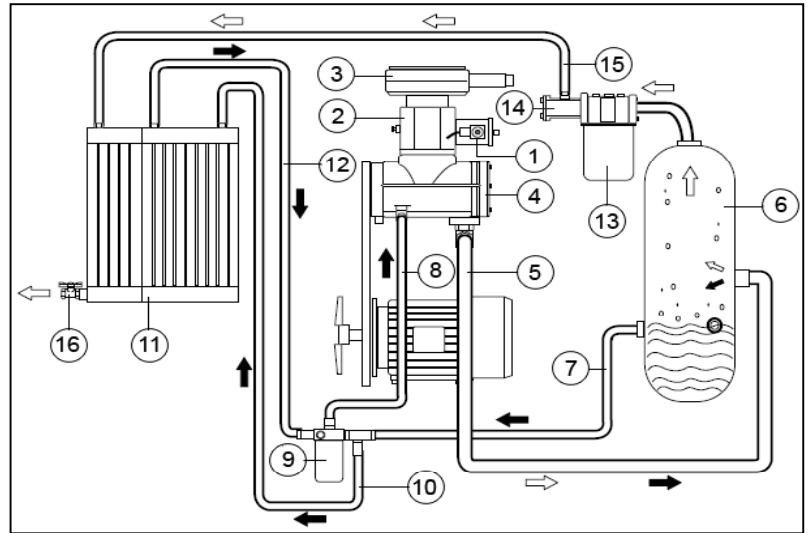
A drainage pit or cab shall be used to collect tank condensate.
 Dimensions are just approximate. Try nevertheless to respect them as much as possible.



OPERATION

WORKING CYCLE

- At first start-up, the motor starts in the "star" configuration. In this phase the compressor starter slowly, the solenoid valve (1) is open and the suction regulator (2) is closed.
- The compressor remains in this condition for about 5-7 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 filter (3).
- At this stage, the compressor runs at full speed and begins to compress the air in the tank (6).
- The compressed air cannot come out from the minimum pressure valve, which is set at 3-4 bar
- The compressed air compresses the oil in the tank (6) and forces it to flow towards the tube (7) through filter (9) and tube (8).
- If oil temperature is over 71 °C, the thermostat closes the tube line (8) so that the oil reaches the radiator (11) through the tube (10).
- Cooled oil returns to the compressor through tubes (12) and (8) via filter (9).
- The oil reaches the compressor (4) mixing with the intake air and creating an air/oil mixture which ensures the seal and the lubrication of the moving parts of the compressor.
- The air/oil mixture returns to the tank (6) where the air is pre-separated through spinning and is finally separated from the oil by the oil separator tank (13).
- As a result, the tank (6) will deliver only air to radiator (11) through tube (15). Air is then conveyed to mains through a cut-off cock (16).



START-UP

FIRST START-UP

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

- the mains voltage is the same as the voltage on the CE plate;
- the electric connections have been made using cables of proper cross-section;
- the (wall) main power switch has suitable fuses;
- the oil level is over the minimum level - top up with the same type of oil if necessary;
- the air outlet cock is completely open.

CONNECT THE TANK WITH A HOSE

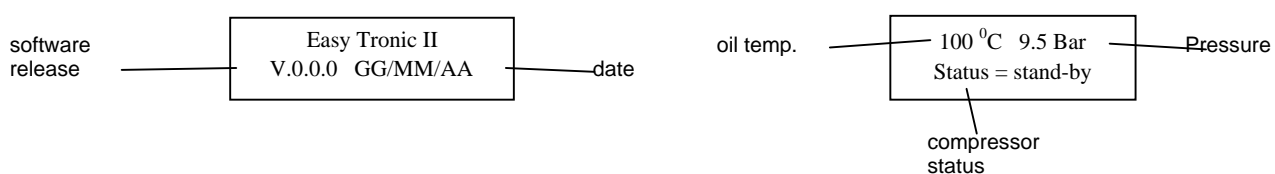
- Only specialised technicians can start the compressor (on-site testing) for the first time.

If the machine does not start and the display shows the alarm message "Wrong direction of rotation", proceed as follows:

- break power supply through the wall switch;
- open the electric box door and reverse the two phases in the terminal board;
- close the door, power on and start the machine.

Display status during compressor operation

Display status at start (shown for 5 seconds)



Press the **Δ** key to see hours and minutes operation; the information is displayed for 20 seconds.