



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD110

BUILT ON TRUST

BFD110

Specification

Surrounding

Atmosphere ----- 760 mmHg
 Working Pressure -----8.0 kgf/cm²
 Max. Temperature ----- 46 °C

Compressor

Free Air Delivery ----- 20 m³/min at 8.0 kgf/cm²

 Cooling Method ----- Air Cooled by Cooling Fan
 Outlet Air Temperature ----- Ambient Temp. +15°C
 Operation Control
 Driven Method ----- Direct Driven

Electric Motor

Rating Power ----- 110 kW (150Hp)
 Power Source ----- AC380V/3-Phase (50Hz)
 Start Method ----- Y-Δ
 Pole / RPM ----- 2 pole / 2975 rpm
 Service Factor ----- 1.2
 IP Class ----- IP 54
 Enclosing

Others

Oil Volume ----- 75 ℓ
 Noise level ----- 80dBA
 Pipe connection ----- 65A
 Dimension ----- 2500mm x 1500mm x 1950mm
 Weight ----- 3400Kg

Controller

Compressor Controller ----- Micro Controller
 Power Source ----- AC380V, 3 Phase
 (Built-in Transformer)
 Pressure Control ----- Continuous Pressure Control
 by Pressure Sensor
 Control Method ----- loading and unloading
 Operation Mode ----- • Automatic Mode
 ----- • Continuous Mode
 ----- • Remote Mode
 ----- • Schedule Mode
 (Default: Automatic)

Error Detecting Function & Auto-Control Function (LCD & LED Display)

- ◆ System Trip and Warning Function
 - Outlet Air Temperature High
 - Main Motor Overload
 - Fan Motor Overload
 - Pressure & Temperature Sensor Fault
- ◆ Auto-Control Function
 - Stop Delay Function
 - Re-start Pressure
 - Automatic Start

Maintenance Function (LCD & LED Display)

- ◆ Air Filter Change Warning
- ◆ Oil Filter Change Warning
- ◆ Oil Separator Change Warning

Operation Status Display (LCD & LED Display)

- ◆ Outlet Air Pressure
- ◆ Outlet Air Temperature
- ◆ Operation Mode
- ◆ Load / Unload Status

Statistics Function

- ◆ Amot Clock (Automatic Time)
- ◆ Total Operating Hour
- ◆ Load / Unload Hour
- ◆ Set Stop Delay Time



BFD110

Components



Electric Motor x 1unit

Type -----	Y2-280M2-2-110
Rated Power -----	110 kw (150 HP)
Service Motor -----	1.2
Electric Source -----	AC380, 3-Phase, 50 Hz
Mode of Operation -----	S1, Continuous Operation Mode
Pole / RPM -----	2-Pole / 2975 rpm at 50Hz
Cooling Method -----	Built-in Fan Cooled
Lubrication -----	CHERROM
Starting Method -----	Start-Delta



Screw Aired x 1unit

Model -----	3.47.100005
Compression -----	Oil Flooded 1-Stage Compression
Rotor Combination -----	5 x 6 (Male * Female)
Pressure Range -----	5 ~ 13 bar
Operation Speed -----	2975 rpm

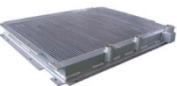


Suction Air Filter x 1unit

Model -----	BUMA Genuine Filter
Filtration grade -----	2 μ m / Min. 99.8 % (3 ppm)

Lubrication Oil Circulation

Combined Cooler	1 unit
- Aluminum Wing Type Cooler (for Air / Oil Cooling)	
Oil Filter Housing	1 unit
Oil Filter (BUMA Genuine Filter)	1 unit
Oil Line	1 set
- Seamless Tubing&O-ring Type Parker Fitting	
Cooling Fan	2 unit
- Low Noise Centrifugal Fan	
Fan Motor (AC380V)	2unit



Instrument Panel

Controller (BUMA Controller)	1 unit
Pressure Sensor	1 unit
- Pressure Range : 0 ~ 16 kgf/cm ²	
- Power Source : DC 24V	
- Analog Output : DC 0.1 ~ 10 V	
Temperature Sensor	1 unit
- Outlet Air Temperature	
Pressure Switch	1 unit
- No. 1: Detecting Compressor Sump Pressure	
- No. 2: Stand-by for Failure of Pressure Sensor	
Main EOCR	1 unit
- For Detecting Main Motor Overload	
Fan EOCR	1 unit
- For Detecting Fan Motor Overload	
Display LED (Trip)	1 set
- Main Motor Overload	
- Discharge Air Temperature High	
Display LED (Warning)	1 set
- Filter Change	
- Discharge Temperature High	
Operation Status	1 set
- LED and Lamp Display (Mode, Load/Unload)	
Start Box	1 set
- Including Transformer and Converter	
- Control : DC24V, AC220V	
Emergency Switch	1 unit

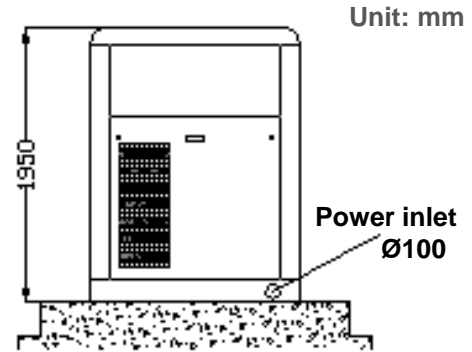
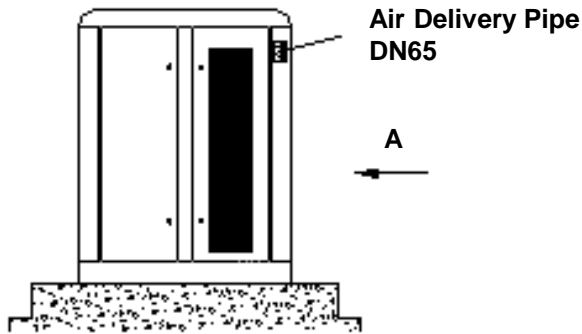


Pneumatic & Electric Valves

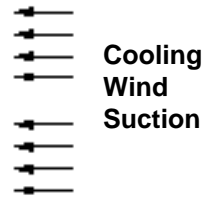
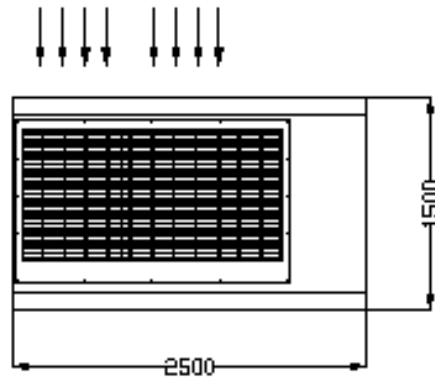
Intake Valve (RH-120F)	1 unit
Thermostatic Valve (LHGL-32A1)	1 unit
Minimum Pressure Valve (H46F-16Z)	1 unit
Solenoid Valve	1 unit
- For Controlling Intake Valve and Purge Valve	
Safety Valve	1 unit
- A28X-16T (DN15)	
Purge Valve (HX)	1 unit

BFD110

Appearance Drawing



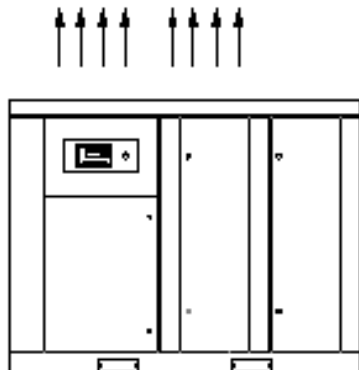
Cooling Wind Suction



Dimension

Length : 2,500 mm
Width : 1,500 mm
Height : 1,950 mm
Weight : 3400 Kg

Cooling Wind Discharge



View A



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