



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD132

BUILT ON TRUST

BFD132

Specification

Surrounding

Atmosphere	760 mmHg
Working Pressure	8.0 kgf/cm ²
Max. Temperature	46 °C

Compressor

Free Air Delivery	22.5 m ³ /min at 8.0 kgf/cm ²
Cooling Method	Air Cooled by Cooling Fan
Outlet Air Temperature	Ambient Temp. +15°C
Operation Control	
Driven Method	Direct Driven

Electric Motor

Rating Power	132 kW (180Hp)
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	80 dBA
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	<ul style="list-style-type: none"> • 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	

BFD132

Components



Electric Motor x 1unit

Type	W21-280M-2
Rated Power	132 kw (180 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 Airend x 1unit

Model	3.47.100004
Compression	Oil Flooded 1-Stage Compression
Rotor Combination	5 x 6 (Male * Female)
Pressure Range	5 ~ 13 bar
Operation Speed	2975 rpm

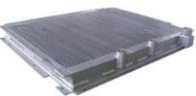


Suction Air Filter x 1unit

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

Lubrication Oil Circulation

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



Instrument Panel

Controller (BUMA Controller)	1 unit
Pressure Sensor - Pressure Range : 0 ~ 16 kgf/cm2 - Power Source : DC 24V - Analog Output : DC 0.1 ~ 10 V	1 unit
Temperature Sensor - Outlet Air Temperature	1 unit
Pressure Switch - No. 1: Detecting Compressor Sump Pressure - No. 2: Stand-by for Failure of Pressure Sensor	1 unit
Main EOCR - For Detecting Main Motor Overload	1 unit
Fan EOCR - For Detecting Fan Motor Overload	1 unit
Display LED (Trip) - Main Motor Overload - Discharge Air Temperature High	1 set
Display LED (Warning) - Filter Change - Discharge Temperature High	1 set
Operation Status - LED and Lamp Display (Mode, Load/Unload)	1 set
Start Box - Including Transformer and Converter - Control : DC24V, AC220V	1 set
Emergency Switch	1 unit

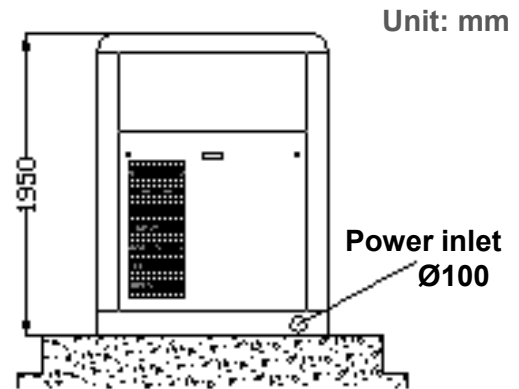
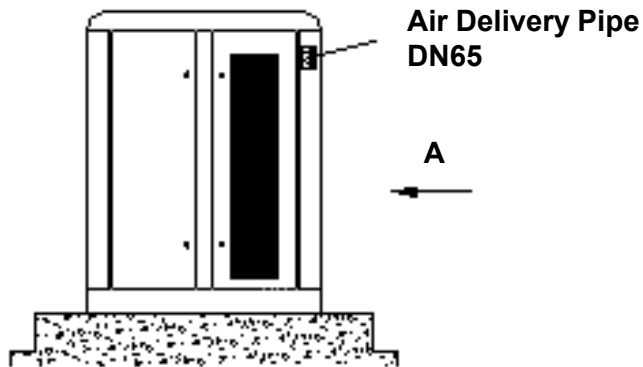


Pneumatic & Electric Valves

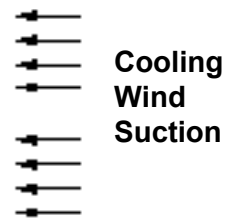
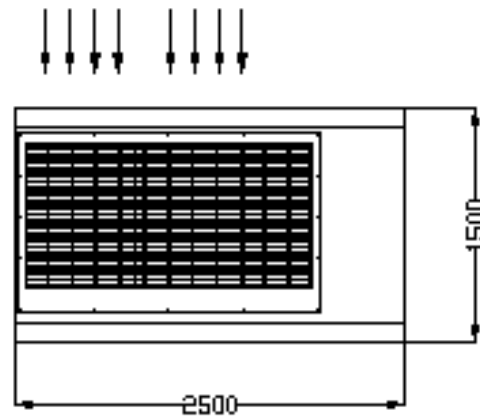
Intake Valve (RH-120F)	1 unit
Thermostatic Valve (LHGL-32A1)	1 unit
Minimum Pressure Valve (H46F-16Z)	1 unit
Solenoid Valve - For Controlling Intake Valve and Purge Valve	1 unit
Safety Valve - A28X-16T (DN15)	1 unit
Purge Valve (HX)	1 unit

BFD132

Appearance Drawing



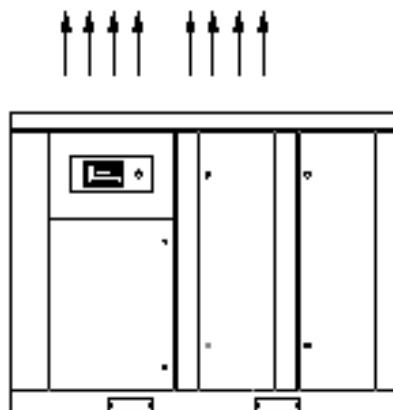
Cooling Wind Suction



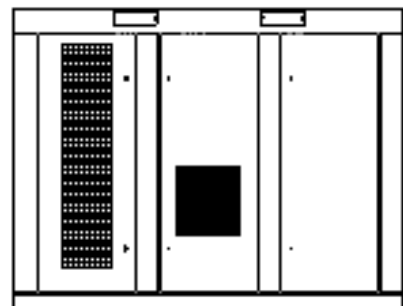
Dimension

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

Cooling Wind Discharge



View A



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