



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD90

BUILT ON TRUST

BFD90

Specification

Surrounding

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

Compressor

Free Air Delivery ----- 15.9 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 ----- 90 kW (125Hp)
 Power Source ----- AC380V/3-Phase (50Hz)
 Start Method ----- Y-Δ
 Pole / RPM ----- 2 pole / 2965 rpm
 Service Factor ----- 1.2
 IP Class ----- IP 54
 Enclosing

Others

Oil Volume ----- 60 l
 Noise level ----- 78 dBA
 Pipe connection ----- 50A
 Dimension ----- 2200mm x 1350mm x 1670mm
 Weight ----- 2100Kg

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



BFD90

Components



Electric Motor x 1unit

Type	Y2-280M-2-90
Rated Power	90 kw (125 HP)
Service Motor	1.2
Electric Source	AC380, 3-Phase, 50 Hz
Mode of Operation	S1, Continuous Operation Mode
Pole / RPM	2-Pole / 2965 rpm at 50Hz
Cooling Method	Built-in Fan Cooled
Lubrication	CHERROM
Starting Method	Start-Delta



Screw Air End x 1unit

Model	3.47.100002
Compression	Oil Flooded 1-Stage Compression
Rotor Combination	5 x 6 (Male * Female)
Pressure Range	5 ~ 13 bar
Operation Speed	2965 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



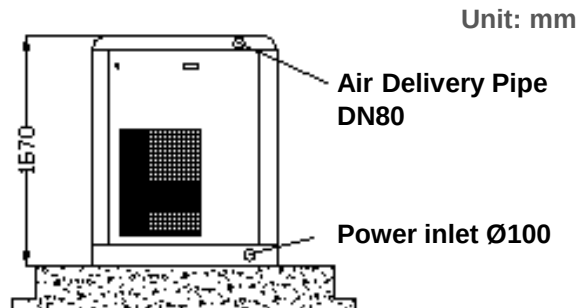
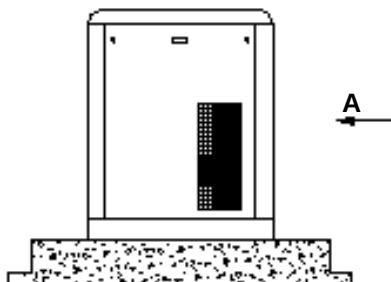
Pneumatic & Electric Valves

Intake Valve (AIV-85B-FM)	1 unit
Thermostatic Valve (LHGL-32C3)	1 unit
Minimum Pressure Valve (MPV-50FZ)	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

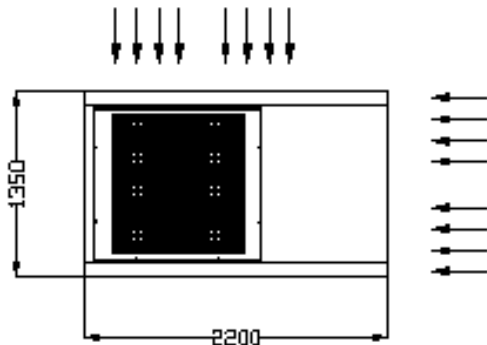
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Appearance Drawing



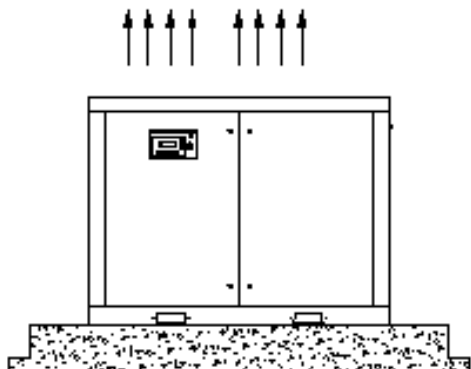
Cooling Wind Suction



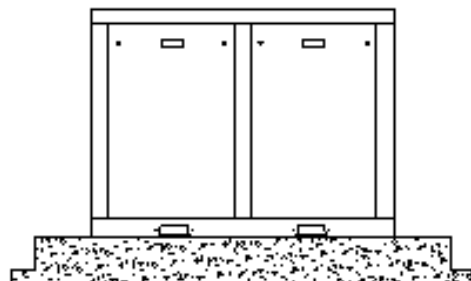
Dimension

Length : 2,200 mm
Width : 1,350 mm
Height : 1,670 mm
Weight : 2100 Kg

Cooling Wind Discharge



View A



The specifications of this machine are subject to change for improvements.

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www.bumatec.com



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KOREA HEAD OFFICE

291 1637BEON-GIL, SEOBU-RO,
JUCHON-MYON,
GIMHAE-CITY, GYEONGNAM,
KOREA (621-843)
TEL: +82-55-337-9891~3
FAX: +82-55-337-9894
Email: bumace@bumace.com

CHINA FACTORY

WEST OF JIUJING ROAD,
DANYANG ECONOMIC
DEVELOPMENT ZONE,
JIANGSU, CHINA (Zip Code: 212300)
TEL: +86-551-6220030
FAX: +86-511-86220032
Email: buma@bumatec.com