



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD55

BUILT ON TRUST

BFD55

Specification

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Surrounding

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

Compressor

Free Air Delivery ----- 9.6m³/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 ----- 55 kW (75Hp)
Power Source ----- AC380V/3-Phase (50Hz)
Start Method ----- Y-Δ
Pole / RPM ----- 2 pole / 2950 rpm
Service Factor ----- 1.2
IP Class ----- IP 54
Enclosing

Others

Oil Volume ----- 40 ℓ
Noise level ----- 75 dBA
Pipe connection ----- 50A
Dimension ----- 1700mm x 1200mm x 1520mm
Weight ----- 1800 Kg

Controller

Compressor Controller ----- Micro Controller
Power Source ----- AC380V, 3 Phase
(Built-in Transformer)
Pressure Control ----- Continuous Pressure Control
by Pressure Sensor
Control Method ----- Loading & Unloading Control
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



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

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Components

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Electric Motor x 1unit

Type	Y2-225M-2-55
Rated Power	55kw (75 HP)
Service Motor	1.3
Electric Source	AC380, 3-Phase, 50 Hz
Mode of Operation	S1, Continuous Operation Mode
Pole / RPM	2-Pole / 2940 rpm at 50Hz
Cooling Method	Built-in Fan Cooled
Lubrication	CHERROM
Starting Method	Start-Delta



Screw Airend x 1unit

Model	3.47.100001
Compression	Oil Flooded 1-Stage Compression
Rotor Combination	5 x 6 (Male * Female)
Pressure Range	5 ~ 13 bar
Operation Speed	2950 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	1 unit
Fan Motor (AC380V)	1 unit



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 (HX DN85)	1 unit
Thermostatic Valve (DB LHGL-32C3)	1 unit
Minimum Pressure Valve (HX)	1 unit
Solenoid Valve - For Controlling Intake Valve and Purge Valve	1 unit
Safety Valve - A28X-16T (DN25)	1 unit
Purge Valve (HX)	1 unit

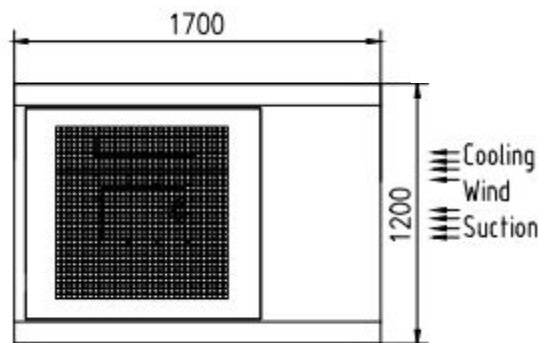
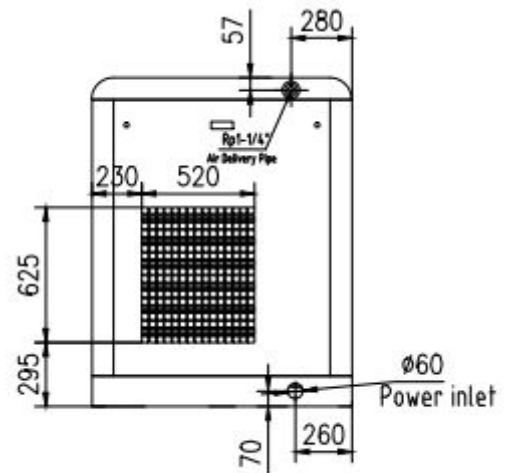
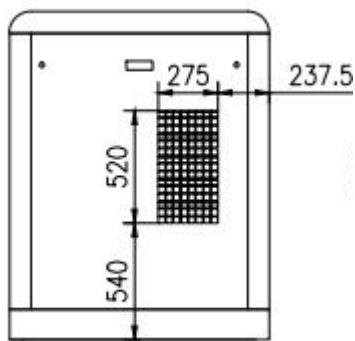
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Appearance Drawing

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Unit: mm



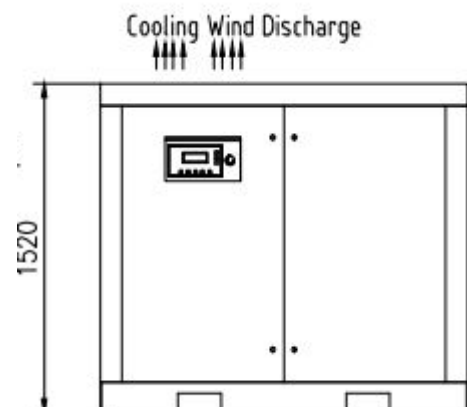
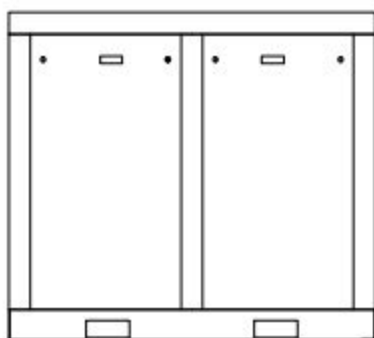
Dimension

Length : 1700 mm

Width : 1200 mm

Height : 1520 mm

Weight : 1800 Kg



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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