

TB300

PERFORMANCE CRITERIA FOR TB300 TURBO COMPRESSOR

For correct operation of this unit, the following maximum conditions must not be exceeded :-

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|---------------|----------------------------|
| Airflow | 1200-5100m ³ /h |
| Pressure | 1200-2000mbar |
| Axial power | 225kW |
| VDF Voltage | 380 - 480V |
| VDF Frequency | 50 - 60Hz |

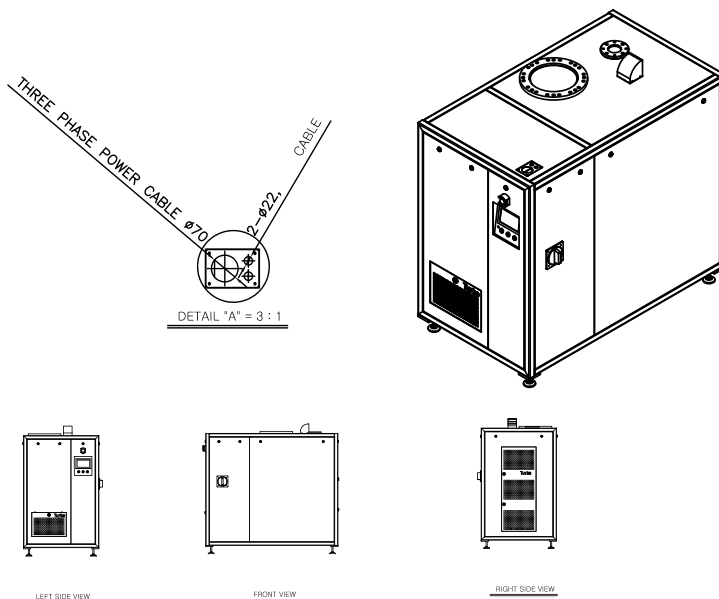
CONTROL / INSTRUMENTATION

| | |
|-----------------------|---|
| Type of Controller | PLC |
| Network to SCADA, MCP | Standard : MODBUS TCP/IP and MODBUS RTU Optional : PROFIBUS-DP and ETHERNET IP |
| Input | Analog : 4-20 mA or 0-10v / digital : Dry contact |
| Output | Analog : 4-20 mA or 0-10v / digital : Relay (2A) |
| Interface | 7" Touchscreen |

$$\text{Pressure ratio} = \frac{\text{Absolute outlet pressure}}{\text{Absolute inlet pressure}}$$

Normal (sea level) ambient conditions are 1013 mbar & 15 deg C.

A BLOWER is a unit in which the inlet pressure is substantially equal to the ambient pressure.



Size: 1263 (w) x 2260 (l) x 2187 (h)

Dimensions in millimetres (inch conversions in brackets)

UNIQUE FEATURES

- * Around 20% more energy efficient than PD blowers
- * Noise levels are typically around 75-80dB(A)
- * 100% lubricant free due to air foil bearings
- * Compact size and light weight compared to PD blowers
- * Low maintenance, no lubricants only filter change needed

SPECIFICATION

PMS motors: Are optimised for high speed rotation, minimising current loss and delivering a maximum efficiency of 98%. No power loss due to direct drive. Stop-start test conducted over 100,000 times.

Air Foil bearings: Are 100% lubricant free, contactless and eco-friendly. Special coating reduces frictional wear providing long service life. No maintenance needed.

Impeller: Made from high strength heat treated aluminium. Manufactured with state-of-the-art aerodynamic technology. High precision 5-axis machining ensures wide flow range and surge margin. Anodised coating enhances surface strength.

Cooling System: Self-cooling system so no separate power source required. No maintenance required.

Inverter: Less than 1% starting current. 0.3% Unload Power Consumption. KEB (Kinetic Energy Back-up) function for enhanced safety in case of power failure.

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All blowers are individually tested. Test certificates will be issued if requested.

A comprehensive Installation and Operating Instruction folder is supplied with every blower.