TB100



PERFORMANCE CRITERIA FOR TB100 TURBO BLOWER

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

Speed (maximum)	36000rpm
Airflow	1380-6300m3/h
Pressure	300-1000mbar
Axial power	75kW
VDF Voltage	380 - 480V
VDF Frequency	50 - 60Hz

CONTROL / INSTRUMENTATION

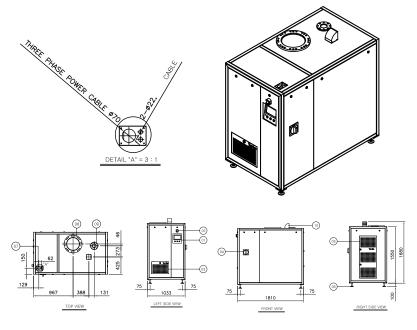
Total weight	546kg	
Interface	7" Touchscreen	
Output	Analog : 4~20 mA or 0~10v / digital : Relay (2A)	
Input	Analog: 4~20 mA or 0~10v / digital: Dry contact	
Network to SCADA, MCP	Standard : MODBUS TCP/IP and MODBUS RTU Optional : PROFIBUS-DP and ETHERNET IP	
Type of Controller	PLC	

Pressure ratio =

Absolute outlet pressure
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.



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 Consumtion. KEB (Knetic Energy Back-up) function for enhanced safety in case of power failure.

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

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