

TRINITY MK2

kW 7,5 - 11 - 15

bar 8 - 10 - 13



Broadbent

 **Air compressors**

ROTARY SCREW
COMPRESSORS



TRINITY MK2 - Fully featured rotary screw compressor

TRINITY MK2 series compressors replaces the traditional compressed air systems, incorporating filtration, refrigerated air dryer, air receiver with an energy efficient air end. TRINITY MK2 is ready for immediate installation with no additional piping or wiring. Having a small foot print and low noise allows for the TRINITY MK2 to be installed in the immediate workplace meeting all Occupational Health and Safety regulations.

The advanced controllers fitted to the TRINITY MK2 range have been specifically developed to guarantee optimum monitoring and regulation of the compressor's operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.



ELECTRONIC CONTROLLER

Controller with multi-function and multi-language backlit LCD graphic display, the menu is drop down type. In the main screen are displayed:

- Working pressure (offload/load);
- Oil temperature;
- Compressor status (stand-by, offload, load);
- Fan status (off/on);
- Date and time;
- Hours remaining before maintenance;

MASTER/SLAVE FUNCTION

It is possible to connect up to 4 compressors for managing distribution of the workload in such a way to equalize the hours dynamically changing set of pressures of the various compressors.

OPTIONAL EXPANSION MODULE*

GSM/GPRS/Ethernet/WiFi module (for on-line compressor status, remote assistance, connection with PC, Smartphone and Tablet, connection between neighbour compressors).

**on request*



PS 26TF AIR-END

High efficiency, premium performance air-end, ensure low maintenance and a long life service.



TRINITY MK2 Series - Facts

TRINITY MK2 screw compressors offer a complete package ranging from 7.5kW to 15kW with a pressure range from 8 Bar to 13 Bar, offering a clean oil free air supply to 0.1 mg/m³/min and a pressure dew point of +3°C.

TRINITY MK2 supplies operators with a high level of energy efficient clean compressed air to the production with the ability to tailor the output of the compressor through the control panel, minimising service and running costs.



BELT-DRIVEN TRANSMISSION AND BELT PROTECTION SYSTEM

The POLY-V belt-drive ensures significantly lower power losses and three times the service life compared to standard range "V" type belts fitted to other compressors on the market. Belt tensioning is carried out through a slider system.



SPIN-ON FILTERS

The oil filter and separator filter, both spin-on type, ensure maximum efficiency and simple maintenance.

MINIMUM PRESSURE VALVE

The advanced design and high quality of engineering results in maximum reliability and increased air delivery in all operating conditions.



INTAKE REGULATOR

The highly reliable and robust electropneumatic system: adjusts the compressors operation to guarantee minimum pressure when idle running and provide maximum energy saving upon start-up. All this translates into an optimal energy cost/performance formula.



THERMOSTATIC VALVE

The thermostatic valve regulates the oil temperature, preventing the formation of condensation inside the oil-separator vessel.



COOLING AIR PRE-FILTRATION PANEL

The standard pre-filtering and washable panel filter assists in keeping the inside of the machine clean and ensures ease of maintenance and cooler operation.



HEAT EXCHANGER

The large combined heat exchanger ensures that the machine operates within the optimum temperature band. The resulting lower temperature of the delivered compressed air means that the condensation can be removed more easily and ensuring the efficient operation of the refrigerated dryer. The lower oil temperature reduces wear and improves energy efficiency.



DRYER AND FILTERS

The INDUSTRIAL DRY range features a fully integrated and complete air treatment module including a refrigerated air dryer and both inlet and outlet high efficiency filters.



COOLING SYSTEM

The thermostatically controlled centrifugal fan is activated automatically by means of the electronic controller. This allows the machine to quickly reach and precisely maintain the ideal operating temperature. The fan is protected by a safety guard ensuring maximum operator security and at the same time meeting all international standards.



TRINITY MK2 Series

Model	Tank	Power		Air delivered			Max. Pressure		Sound level	Connection	Net Weights		Net Dimensions L x W x H
	lt	kW	HP	m ³ /min.	m ³ /h	CFM	bar	p.s.i.	dB(A)	G	Kg	Lbs	(cm)
TRINITY MK2 7.5-08-270 DF	270	7.5	10	1.25	75	44	8	116	62	3/4"	326	719	156 x 70 x 158
TRINITY MK2 7.5-10-270 DF	270	7.5	10	1.00	60	35	10	145	62	3/4"	326	719	156 x 70 x 158
TRINITY MK2 7.5-13-270 DF	270	7.5	10	0.75	45	26	13	188	62	3/4"	336	741	156 x 70 x 158
TRINITY MK2 11-08-270 DF	270	11	15	1.65	99	58	8	116	65	3/4"	350	772	156 x 70 x 158
TRINITY MK2 11-10-270 DF	270	11	15	1.50	90	53	10	145	65	3/4"	350	772	156 x 70 x 158
TRINITY MK2 11-13-270 DF	270	11	15	1.15	69	41	13	188	65	3/4"	360	794	156 x 70 x 158
TRINITY MK2 15-08-270 DF	270	15	20	2.15	129	76	8	116	65	3/4"	376	829	156 x 70 x 158
TRINITY MK2 15-10-270 DF	270	15	20	1.85	111	65	10	145	65	3/4"	376	829	156 x 70 x 158
TRINITY MK2 15-13-270 DF	270	15	20	1.55	93	55	13	188	65	3/4"	386	851	156 x 70 x 158

The air flow rates have been measured at the following working pressures:
 7.5 bar for model 8 bar - 9.5 bar for mod. 10 bar - 12.5 bar for mod. 13 bar.
 The data and performances were recorded in accordance with standard ISO 1217.
 The sound level was measured in accordance with PNEUROP/CAGI standards.

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