



*Belt-driven rotary screw compressors*

## Shamal screw compressors: designed for industry and for energy saving

Our compressors are the answer to the needs of largescale industry and small and mid-sized companies, where compressed air is one of the main sources of energy.

They are designed for continuous duty in very hard operating conditions, with special attention to energy consumption, low operating and maintenance costs, simple installation and easy use.

The entire production process, from design to packaging, is carried out at our facilities in Italy.

Our highly skilled staff is dedicated to support the manufacturing and assembling activities.

The continuous control and monitoring of each process grants the utmost precision at every step, in order to achieve the highest quality, supreme product reliability and flexibility of use.



### 1 INNOVATIVE COOLING SYSTEM

The cooling system is among the most innovative in the field. A thermostatic controlled centrifugal fan keeps the temperature of the entire compressor to specific tolerance and at a constant level, avoiding temperature peaks that can be harmful for the correct operation of the compressor. The action of the fan, combined with the efficiency of the oversized oil cooler, guarantees the operation of the compressor in different climatic conditions. The "no-noise" fans, the specially studied labyrinth ventilation and the use of high quality sound-proof materials provide the sound level to be among the lowest in the range.



### 2 EFFICIENT TRANSMISSION

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



### 3 SPIN-ON FILTERS

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

## Construction features and strength points

### High energy saving



The choice of high quality components, combined with our high performance AIR-ENDS and Premium Efficiency IE3 motors, ensure reduced power consumption, substantial energy savings and exceptional efficiency performance. Furthermore, the IE3 motors reduce CO<sub>2</sub> emissions: an important contribution to protecting the environment.

### 2 Years warranty

Our air-ends, inverters and controllers are covered by 2 Years warranty.

### High productivity

High air output performances is one of the key features of the SHAMAL project engineering.

### High reliability

Quality control and components from primary global manufacturers guarantee long operating life and long maintenance intervals.

### High performance air-ends

Our high performance AIR-ENDS are entirely designed, produced and tested in our Italian facilities: the special design of the screw profile assures high performances.



### Low noise

STORM compressors are very quiet: the use of very efficient soundproof materials makes them suitable for installation in any working place.

## Advanced electronic controllers

### ETMII

Installed on models from 4 to 15 kW.



Controller with multi-function backlight display, the menu is alphanumeric type. In the main screen are displayed:

- Working pressure (offload/load);
- Oil temperature;
- Total working hours;
- On-load working hours;
- Compressor status led (stand-by, offload, load);
- Hours remaining before maintenance.

- Four maintenance timers (air cartridge, oil, oil filter, oil separator).
- Automatic re-start after power failure.
- Cooling fan temperature settable.
- Compressor remote start settable.
- Integrated sequence phase relay.

### ETIV

Installed on models from 18.5 to 75 kW.



Controller with multi-function backlight 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;
- Inverter use percentage.

### Remote monitoring (on demand)

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

### 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 pressures of the various compressors.



Model	Code	Tank	Power		Free air delivered			Max. Pressure		Noise level dB(A)	Connection G	Weight		Dimensions LxWxH (cm)
			It	kW	HP	L/min.	m <sup>3</sup> /h	c.f.m.	bar			p.s.i.	kg	
STORM 11-10-500 ES	V83NM92SHA872	500	11	15	1500	90	53	10	145	69	3/4"	395	869	198 x 70 x 163

- Extremely silent
- Very compact design
- High efficiency.
- Minimum energy consumption
- Low R.P.M.
- Ease of installation and use
- Plug and play



- Poly-V belt transmission that guarantees long life and minimum maintenance.
- Operating pressure: 10 bar.
- Independent ventilation from the main electric motor.
- Easy discharge of condensation.
- The internal mechanical parts are easy to access, to perform routine maintenance quickly and simply.
- Easy transportability: the machine is particularly easy to lift with a fork truck or hand truck thanks to a steel bar secured between the feet at the base of the air receiver (both at the front and to the side).

### Available in 3 versions:

- floor mounted,
- with tank (270 or 500 liters),
- with tank and dryer.



ETMII electronic controller



FS26TF air-end



Radial Fan



Intake Regulator

ALL MODELS WITH TANK ARE ALSO AVAILABLE ON REQUEST WITH A WORKING PRESSURE OF 13 BAR, PROVIDING THE SAME PERFORMANCE OF MODELS ON GROUND. Free air delivery as per ISO 1217 Annex C, at 7.5 - 9.5 - 12.5 bar at the compressor outlet. ± 3 dB (A) as PNEUROP/CAGI PN-NTC 2.3.



**FINI NUAIR S.p.A.**

Via Einaudi, 6 - 10070 Robassomero (TO) Italy  
Tel. +39 011 92 33 000 - Fax +39 011 92 41 138

[www.shamalcompressors.com](http://www.shamalcompressors.com)

[info@shamalcompressors.com](mailto:info@shamalcompressors.com)



Company Quality System Certification:

ISO 9001:2008

Authorized distributor:



شركة دلتا للمعدات الصناعية ذ.م.م

**DELTA** INDUSTRIAL  
TOOLS CO. L.L.C