



 **shamal**

**STORM 37-10**

*37 kW belt-driven rotary screw compressor*



**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, ensuring our air-ends are 100% designed and made 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.



**Cleaner components in any conditions**

*A cabinet prefiltering panel inhibits dust and dirt from entering the inside of the compressor cabinet increasing the life of air filters and the drive belt by 15%, whilst keeping coolers cleaner thereby maintaining lower operating temperatures.*



**Cooling system**

*The cooling air flow, channeled by the thermostatic controlled axial fan, cools down an oversized combined oil/air heat exchanger: this lets the compressor run in severe temperature conditions, with minimum noise level.*



**Oil Filter and separator Filter**

*Both spin-on type, they ensure maximum efficiency and simple maintenance.*



**IR60 intake regulator**

*Normally closed electro-pneumatic system. It adjusts compressor operation, guaranteeing the minimum pressure necessary during idle running and maximum energy saving at start-up, streamlining the energy cost/air generated ratio.*



**Air filter**

*The air filter with cartridge and dual filtering stage allows its use even in dusty environments.*



**Minimum pressure valve**

*Built with oxide free material, fully machined. An ideal technical solution to provide maximum reliability in any operational conditions.*

## STORM HT 37 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.

### Easy maintenance

The STORM HT 37 compressors are built with an emphasis on making routine maintenance tasks simple and components easily accessible: the wide front and rear paneling grants ease of access, reducing inspection and maintenance time.

### Efficient transmission

The POLY-V belt drive ensures significantly lower power losses, lower maintenance 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.

### 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.

### High reliability

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

### 2 Years warranty

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



FS100 air-end

### High productivity

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

### Low noise

The STORM HT 37 compressors are very quiet: the use of very efficient soundproof materials makes them suitable for installation in any working place.

Model	Code	Power		Free air delivered			Pressure		Noise level dB(A)	Connection G	Weight		Dimensions LxWxH (cm)
		kW	HP	l./min. (max. - min.)	m <sup>3</sup> /h (max. - min.)	c.f.m. (max. - min.)	bar	p.s.i.			kg	Lbs	
STORM 37-10	V60BY92SHE072	37	50	5100	306	180	10	145	72	1 -1/4"	640	1408	153 x 84 x 145

Free air delivery as per ISO 1217 Annex C, at 9.5 bar at the compressor outlet.  $\pm 3$  dB (A) as PNEUROP/CAGI PN-NTC 2.3.

## ETIV: Advanced electronic controller

The advanced ETIV controller installed on the STORM HT 37 compressor has been specially designed to ensure optimal monitoring and regulation of the operation of the compressor, allowing flexibility and complete programming, to ensure maximum efficiency and safety.



Controller with multi-function backlight LCD graphic display and extended multilingual messaging, the menu is drop down type. Functions available: weekly programmable timer, remote control, autorestart after power failure, maintenance planning, alarm log, multilevel diagnostic, phase sequence relay to check air-end direction of rotation.

The display shows:

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

### Compressor rotation management, up to 4 units

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.

### SMS Device (Service Management System)

SMS is the innovative device to remote control and perform predictive maintenance on screw compressors equipped with an ETIV controller. The device automatically sends an e-mail (up to 3 addresses to be defined during set-up) in case of an alarm and according to preset thresholds (every hour, every day, every week): this feature allows you to schedule routine maintenance and the timely intervention in case of special maintenance on the compressor it is connected to. Furthermore, you can have full remote control from any device (tablet, smartphone, PC, notebook, etc.), via a web page, as long as it is connected to the same Internet network as the SMS device.



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Company Quality System Certification:

ISO 9001:2008

Authorized distributor:



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