

CE IE3



Belt-driven rotary screw compressors



7.5-22 kW

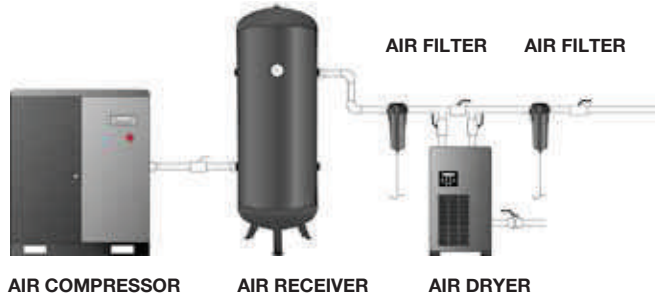
**STAR
VEGA**

The integration of all the fundamental components that make an ideal compressed air system (screw compressor, dryer, filters, controller and air-receiver) are arranged into a single modular device, providing an extremely compact space saving solution, with numerous significant advantages:

- Drastically reduced installation time and cost;
- High quality, clean and dry compressed air;
- Forms a fully automatic, self monitoring and integrated system;
- Excellent access for simple maintenance and easy access to the filters, refrigerated dryer and other components;
- Dry air receiver providing a constant flow of high quality compressed air and reduced corrosion;
- Lower operating costs;
- Automatic condensate discharge operated and adjusted from the main controller and arranged in a single outlet;
- Clear visualization of all operating values of the compressor as well as the dryer operation via the indicator available from the large and clear display of the new ETIV controller.

A true integrated air station

The traditional compressed air installation



and our proposal



■ INTEGRATED DRYER AND FILTERS

The STAR range features a fully integrated and complete air treatment module (ES models) including a generously sized refrigerated air dryer and both inlet and outlet high efficiency filtration. This allows the integrated air station in the ES version to provide both dry and clean compressed air to quality standard classification 2-4-2, in accordance with ISO 8573-1.

The automatic draining of the condensate is collected from the refrigerated dryer and filters and arranged in convenient, single outlet.



2-Year Warranty on screw unit, electronic controller and inverter



- ALL-IN-ONE air compressors workstation.
- Complete range from 7.5 to 22 kW.
- Compact and modern design.
- Easy to use.
- Simple installation and maintenance.
- High quality compressed air.
- Long-life and maximum reliability.
- Flexibility of range.
- Extremely quiet operation.
- Designed for continuous use.
- Reduced energy consumption.

■ LOW NOISE LEVEL

The centrifugal fan design along with the careful arrangement of all other components when added to the extensive sound insulation results in the STAR compressors, offering a sound level among the lowest available.



40
dB(A)



62
dB(A)



62-71
dB(A)



COMPETITORS

66-77
dB(A)



100
dB(A)



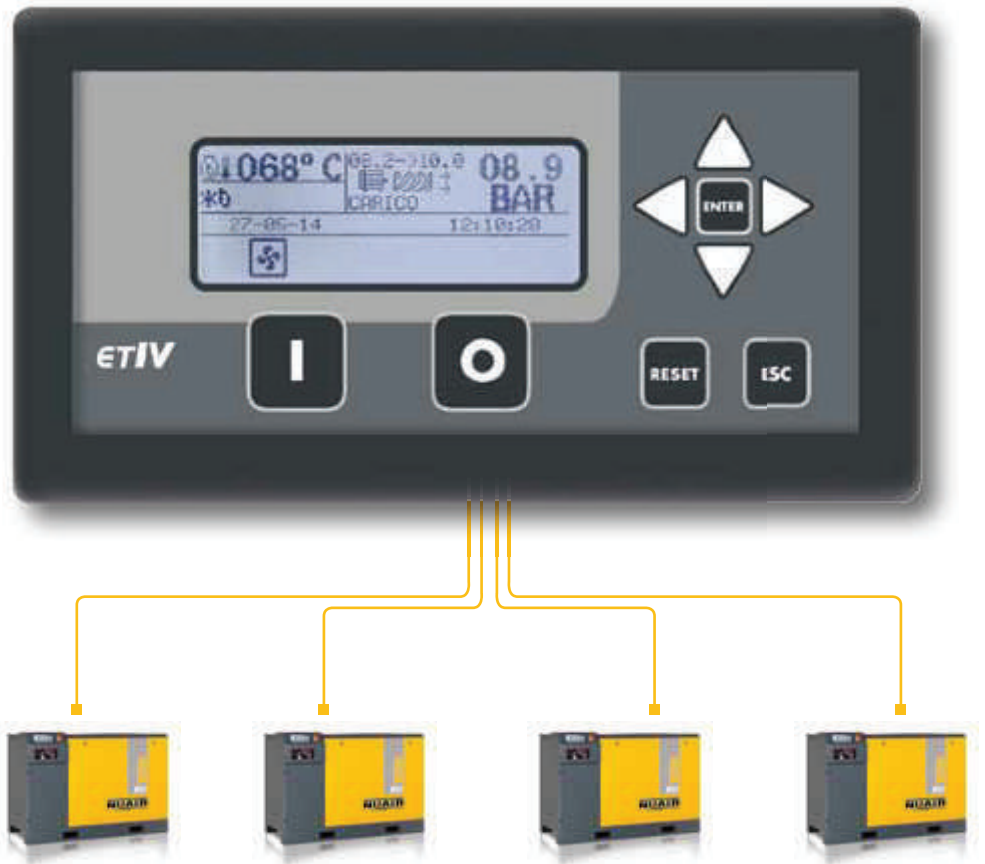
120
dB(A)

The ETIV advanced controller fitted to the STAR and VEGA compressors has 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 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.

ETIV advanced electronic controller



Master/slave function: it is possible to connect up to 4 compressors for managing the workload in such a way to equalize the hours of each compressor in a network to ease servicing. The system pressure can be dynamically programmed to various set pressures according to usage.

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

Our own reliable, high performance air-ends ensure low maintenance and long life service. All of our air-ends are entirely designed, machined, assembled and tested at our modern manufacturing facility in Italy, together with the other key components, such as intake regulator, separator block and minimum pressure/check valve.



■ HIGH EFFICIENCY

The design of the STAR and VEGA compressors, including the "Premium Efficiency" IE3 motors, has been fully focused on combining the different components that make up a perfect compressed air installation for a completely integrated, modular and functional system that combines maximum convenience with optimum energy efficiency.



Variable Speed drive for energy saving

Energy costs and maintenance costs significantly exceed the initial investment in a Company. The NU AIR Variable Speed range, especially in systems with variable air consumption, ensures the reduction of energy costs.

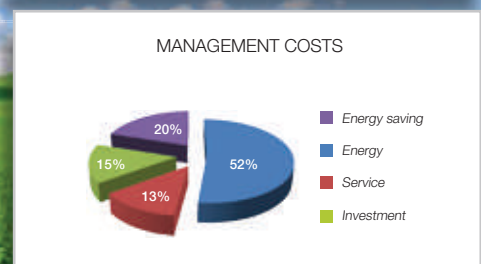
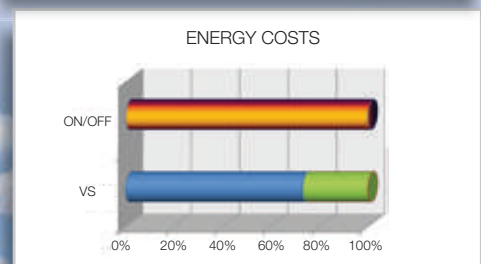
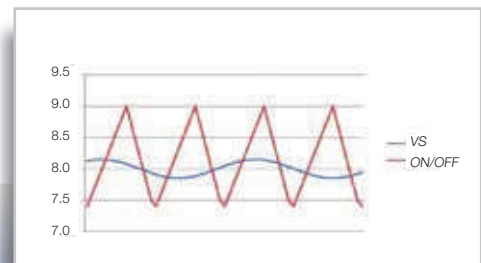
STAR and VEGA 11 and 22 (VS models) are also available with Variable Speed option, equipped with inverter, that enables the compressor to adapt to the flow rate demanded by the application.

They are particularly suitable for those companies that use compressed air with frequently changing flow: the variable frequency drive allows the machine to adjust the flow rate to the actual demand.

The electronic controller monitors and controls air-end speed, modulating the air production in order to keep constant pressure in the network: immediate advantages of this feature are the constant network pressure, the optimized electric power consumption, matching the real compressed air demand, and the minimum wear of the mechanical components, which are usually stressed during the idling/load switching of the standard compressors.



- Energy saving
- Silent operation
- Compact design
- Low maintenance
- Versions with dryer
- High efficiency inverter





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.



COOLING AIR PREFILTRATION 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.



SPIN-ON FILTERS

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



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.



EASE OF MAINTENANCE

All the internal mechanical parts are easy to access thanks to the wide front and rear panels, 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).

COOLING SYSTEM

The thermostatically controlled centrifugal fan is activated automatically by means of the ETIV electronic controller. This allows the machine to quickly reach and precisely maintain the ideal operating temperature.



BELT-DRIVEN TRANSMISSION

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.



MINIMUM PRESSURE VALVE

Produced and designed in house using advanced materials and precision machining methods. The advanced design and high quality of engineering results in maximum reliability and increased air delivery in all operating conditions.



BALL VALVE

Tank-mounted models with ball valve for smooth condensate drain.

The machine is supplied completely and rigorously tested and ready for use. Connection to the electricity supply and compressed air network is all that is required in order to affect a simple, convenient, efficient and immediate installation.





STAR		Tank	Motor Power		Air delivered (ma x . / min.)			Working pressure		Noise level	Conne- ction	Weight		Dimensions L x W x H
Model	Code		liters	kW	HP	l/min.	m ³ /h	c.f.m.	bar	p.s.i.	dB(A)	G	kg	lbs
WITH 270 LT. AIR RECEIVER AND DRYER														
STAR 7.5-08-270	V91SG92N2N544	270	7.5	10	1250	75	44.1	8	116	62	3/4"	326	719	150 x 70 x 154
STAR 7.5-10-270	V91SH92N2N544	270	7.5	10	1000	60	35.3	10	145	62	3/4"	326	719	150 x 70 x 154
STAR 7.5-13-270	V91SM92N2N544	270	7.5	10	750	45	26.5	13	189	62	3/4"	336	741	150 x 70 x 154
STAR 11-08-270	V91SN92N2N544	270	11	15	1650	99	58.2	8	116	63	3/4"	350	772	150 x 70 x 154
STAR 11-10-270	V91SP92N2N544	270	11	15	1500	90	53	10	145	63	3/4"	350	772	150 x 70 x 154
STAR 11-13-270	V91SQ92N2N544	270	11	15	1150	69	40.6	13	189	63	3/4"	360	794	150 x 70 x 154
WITH 500 LT. AIR RECEIVER AND DRYER														
STAR 7.5-08-500	V83SG92N2N544	500	7.5	10	1250	75	44.1	8	116	62	3/4"	386	851	198 x 70 x 165
STAR 7.5-10-500	V83SH92N2N544	500	7.5	10	1000	60	35.3	10	145	62	3/4"	386	851	198 x 70 x 165
STAR 7.5-13-500	V83SM92N2N544	500	7.5	10	750	45	26.5	13	189	62	3/4"	406	895	198 x 70 x 165
STAR 11-08-500	V83SN92N2N544	500	11	15	1650	99	58.2	8	116	63	3/4"	410	904	198 x 70 x 165
STAR 11-10-500	V83SP92N2N544	500	11	15	1500	90	53	10	145	63	3/4"	410	904	198 x 70 x 165
STAR 11-13-500	V83SQ92N2N544	500	11	15	1150	69	40.6	13	189	63	3/4"	430	948	198 x 70 x 165
STAR 15-08-500	V83SR92N2N544	500	15	20	2100	126	74.1	8	116	64	3/4"	436	961	198 x 70 x 165
STAR 15-10-500	V83SS92N2N544	500	15	20	1850	111	65.3	10	145	64	3/4"	436	961	198 x 70 x 165
STAR 15-13-500	V83ST92N2N544	500	15	20	1550	93	54.7	13	189	64	3/4"	456	1005	198 x 70 x 165
STAR 18.5-08-500	V83SU92N2N544	500	18.5	25	2750	162	95	8	116	70	1"	635	1400	198 x 75 x 181
STAR 18.5-10-500	V83SV92N2N544	500	18.5	25	2500	147	86	10	145	70	1"	635	1400	198 x 75 x 181
STAR 18.5-13-500	V83SZ92N2N544	500	18.5	25	2150	123	72	13	189	70	1"	650	1213	198 x 75 x 181
STAR 22-08-500	V83SJ92N2N544	500	22	30	3350	198	116	8	116	71	1"	655	1444	198 x 75 x 181
STAR 22-10-500	V83SY92N2N544	500	22	30	3000	174	102	10	145	71	1"	655	1444	198 x 75 x 181
STAR 22-13-500	V83SW92N2N544	500	22	30	2400	138	81	13	189	71	1"	670	1257	198 x 75 x 181
VARIABLE SPEED WITH AIR RECEIVER AND DRYER														
STAR 11-08-270 VS	V91SN97N2N544	270	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	350	772	150 x 70 x 154
STAR 11-10-270 VS	V91SP97N2N544	270	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	350	772	150 x 70 x 154
STAR 11-08-500 VS	V83SN97N2N544	500	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	410	904	198 x 70 x 165
STAR 11-10-500 VS	V83SP97N2N544	500	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	410	904	198 x 70 x 165
STAR 22-08-500 VS	V83SJ97N2N044	500	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	1"	655	1444	198 x 75 x 181
STAR 22-10-500 VS	V83SY97N2N544	500	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	1"	655	1444	198 x 75 x 181

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.