

CE IE3



Belt-driven rotary screw compressors



7.5-22 kW

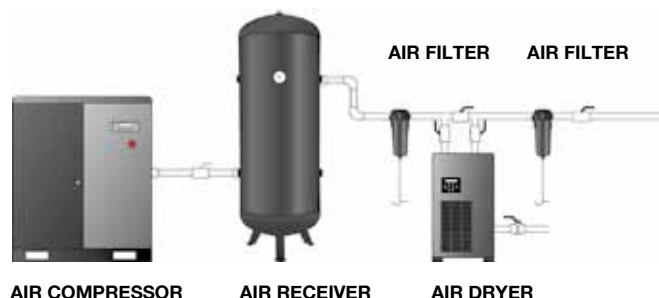
**STAR
VEGA**

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.



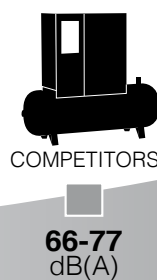
2-Year Warranty on screw unit, electronic controller and inverter



- **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.

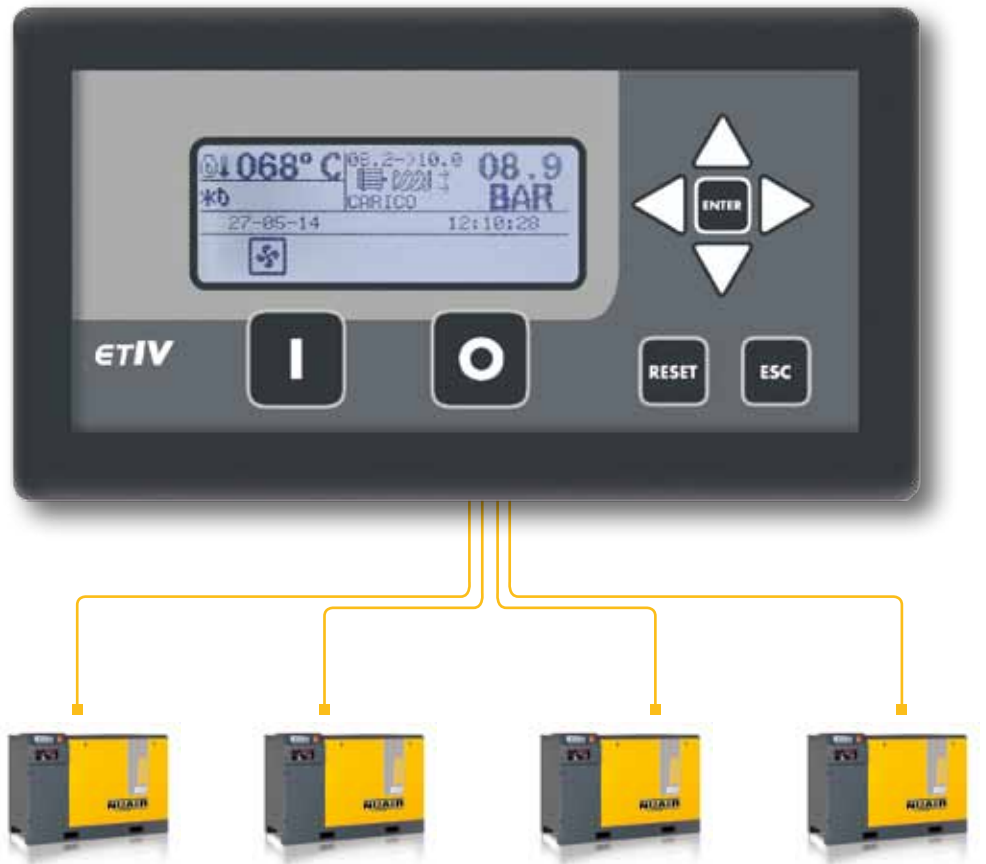


The ETIV advanced controller fitted to the STAR and VEGA compressors has been specifically developed to guarantee optimum monitoring and regulation of the compressor's operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.

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.

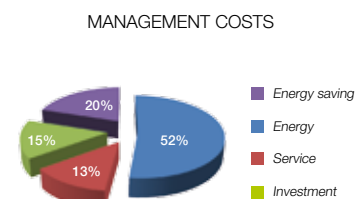
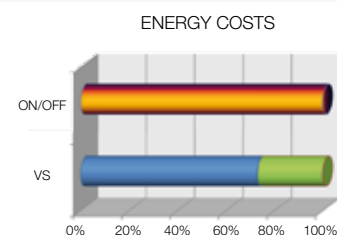
STAR and VEGA 11 and 22 (VS models) are also available with Variable Speed option, equipped with inverter, that enables the compressor to adapt to the flow rate demanded by the application.

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.



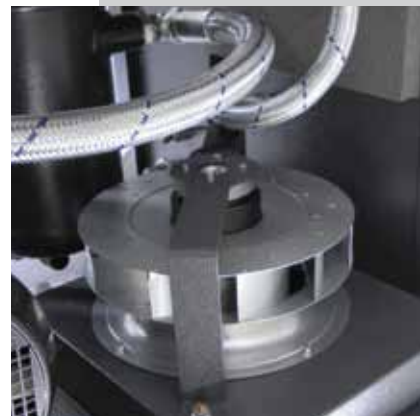
EASE OF MAINTENANCE ■

All the internal mechanical parts are easy to access thanks to the wide front and rear panels, to perform routine maintenance quickly and simply.



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.



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).



VEGA		Motor Power		Air delivered (max. / min.)			Working pressure		Noise level	Connection	Weight		Dimensions L x W x H
Model	Code	kW	HP	l/min.	m³/h	c.f.m.	bar	p.s.i.	dB(A)	G	kg	lbs	cm
FLOOR MOUNTED													
VEGA 7.5-08	V60SG92N1N564	7.5	10	1250	75	44.1	8	116	62	3/4"	240	529	120 x 70 x 101
VEGA 7.5-10	V60SH92N1N564	7.5	10	1000	60	35.3	10	145	62	3/4"	240	529	120 x 70 x 101
VEGA 7.5-13	V60SM92N1N564	7.5	10	750	45	26.5	13	189	62	3/4"	240	529	120 x 70 x 101
VEGA 11-08	V60SN92N1N564	11	15	1650	99	58.2	8	116	63	3/4"	254	560	120 x 70 x 101
VEGA 11-10	V60SP92N1N564	11	15	1500	90	53	10	145	63	3/4"	254	560	120 x 70 x 101
VEGA 11-13	V60SQ92N1N564	11	15	1150	69	40.6	13	189	63	3/4"	254	560	120 x 70 x 101
VEGA 15-08	V60SR92N1N564	15	20	2100	126	74.1	8	116	64	3/4"	280	617	120 x 70 x 101
VEGA 15-10	V60SS92N1N564	15	20	1850	111	65.3	10	145	64	3/4"	280	617	120 x 70 x 101
VEGA 15-13	V60ST92N1N564	15	20	1550	93	54.7	13	189	64	3/4"	280	617	120 x 70 x 101
VEGA 18.5-08	V60SU92N1N564	18.5	25	2750	162	95	8	116	70	3/4"	420	781	151 x 73 x 108
VEGA 18.5-10	V60SV92N1N564	18.5	25	2500	147	86	10	145	70	3/4"	420	781	151 x 73 x 108
VEGA 18.5-13	V60SZ92N1N564	18.5	25	2150	123	72	13	189	70	3/4"	420	781	151 x 73 x 108
VEGA 22-08	V60SJ92N1N564	22	30	3350	198	116	8	116	71	3/4"	440	805	151 x 73 x 108
VEGA 22-10	V60SY92N1N564	22	30	3000	174	102	10	145	71	3/4"	440	805	151 x 73 x 108
VEGA 22-13	V60SW92N1N564	22	30	2400	138	81	13	189	71	3/4"	440	805	151 x 73 x 108
WITH DRYER													
VEGA 7.5-08 ES	V60SG92N2N564	7.5	10	1250	75	44.1	8	116	62	3/4"	261	576	120 x 70 x 101
VEGA 7.5-10 ES	V60SH92N2N564	7.5	10	1000	60	35.3	10	145	62	3/4"	261	576	120 x 70 x 101
VEGA 7.5-13 ES	V60SM92N2N564	7.5	10	750	45	26.5	13	189	62	3/4"	261	576	120 x 70 x 101
VEGA 11-08 ES	V60SN92N2N564	11	15	1650	99	58.2	8	116	63	3/4"	285	628	120 x 70 x 101
VEGA 11-10 ES	V60SP92N2N564	11	15	1500	90	53	10	145	63	3/4"	285	628	120 x 70 x 101
VEGA 11-13 ES	V60SQ92N2N564	11	15	1150	69	40.6	13	189	63	3/4"	285	628	120 x 70 x 101
VEGA 15-08 ES	V60SR92N2N564	15	20	2100	126	74.1	8	116	64	3/4"	311	686	120 x 70 x 101
VEGA 15-10 ES	V60SS92N2N564	15	20	1850	111	65.3	10	145	64	3/4"	311	686	120 x 70 x 101
VEGA 15-13 ES	V60ST92N2N564	15	20	1550	93	54.7	13	189	64	3/4"	311	686	120 x 70 x 101
VEGA 18.5-08 ES	V60SU92N2N564	18.5	25	2750	162	95	8	116	70	3/4"	465	1025	151 x 73 x 108
VEGA 18.5-10 ES	V60SV92N2N564	18.5	25	2500	147	86	10	145	70	3/4"	465	1025	151 x 73 x 108
VEGA 18.5-13 ES	V60SZ92N2N564	18.5	25	2150	123	72	13	189	70	3/4"	465	1025	151 x 73 x 108
VEGA 22-08 ES	V60SJ92N2N564	22	30	3350	198	116	8	116	71	3/4"	485	1069	151 x 73 x 108
VEGA 22-10 ES	V60SY92N2N564	22	30	3000	174	102	10	145	71	3/4"	485	1069	151 x 73 x 108
VEGA 22-13 ES	V60SW92N2N564	22	30	2400	138	81	13	189	71	3/4"	485	1069	151 x 73 x 108
VARIABLE SPEED													
VEGA 11-08 VS	V60SN97N1N064	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	254	560	120 x 70 x 101
VEGA 11-10 VS	V60SP97N1N064	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	254	560	120 x 70 x 101
VEGA 22-08 VS	V60SJ97N1N564	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	3/4"	440	805	151 x 73 x 108
VEGA 22-10 VS	V60SY97N1N564	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	3/4"	440	805	151 x 73 x 108
VARIABLE SPEED WITH DRYER													
VEGA 11-08 ES-VS	V60SN97N2N064	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	285	628	120 x 70 x 101
VEGA 11-10 ES-VS	V60SP97N2N064	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	285	628	120 x 70 x 101
VEGA 22-08 ES-VS	V60SJ97N2N564	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	3/4"	485	1069	151 x 73 x 108
VEGA 22-10 ES-VS	V60SY97N2N564	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	3/4"	485	1069	151 x 73 x 108

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.



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.	m³/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.

- **FSN original spare parts** have been rigorously selected, checked and tested by specialized technicians to ensure the utmost efficiency and endurance of the compressor. The parts are stocked in our "LOGIMAT" centralized and automated warehouse in Zola Predosa (BO) - Italy, where 12,000 part codes on 10,000 sqm are managed every day.
- Specialized staff is continuously in contact with our distribution centres worldwide, to deliver spare parts to our customers in the shortest possible time.
- Our "Hot-Line" service is able to prepare and ship within the same day urgent orders.

Long Life Kit

- The use of **FSN "Long Life Kit"**, specifically studied for screw compressors, extends maintenance intervals, cutting down service costs and ensuring consistent product performance, with consequential energy saving. **Ask for the catalog for reference codes!**



Maintenance interval,
using non original parts

+20%

Maintenance interval,
using original parts

LUBRICANTS AND ACCESSORIES

- NU AIR also offers a wide range of accessories to complete the compressor room: control units for the operation of two or more compressors, connecting pipes to the tank or to the dryer.

For other products related to air treatment please ask for the dedicated catalog.

RotEnergy synthetic lubricants

Our lubricants are specially designed for rotary screw compressors to achieve rapid water separation, lower friction, enhanced energy savings, **longer maintenance intervals** and excellent bearing lubrication while offering superior rust and corrosion protection.

RotEnergyFood is a high quality food-grade rotary compressor lubricant specifically designed for use in the food and beverage industries to meet their production quality standards.



#600000018	RotEnergyPlus 46 cSt - 1 x 3.25 kg (3.75 lt) package
#600000009	RotEnergyPlus 46 cSt - 4 x 3.25 kg (3.75 lt) packages
#600000007	RotEnergyPlus 46 cSt - 1 x 16 kg (18.5 lt) package
#600000012	RotEnergyPlus 46 cSt - 1 x 175 kg (210 lt) can
#600000014	RotEnergyFood 46 cSt - 4 x 3.25 kg (3.75 lt) packages
#600000016	RotEnergyFood 46 cSt - 1 x 16 kg (18.5 lt) package
#600000017	RotEnergyFood 46 cSt - 1 x 180 kg (207 lt) can

Long Life Kit for 7.5 - 11 - 15 kW	2.000 h	4.000 h ** (or every year)	8.000 h	12.000 h	20.000 h
VEGA 7.5-08	Air filter cartridge.	Air filter cartridge. Oil filter cartridge. Separator cartridge. Oil check valve. Oil.	4000 hrs Kit. Pipes. Minimum pressure valve.	4000 hrs Kit. Belt. Intake regulator kit. Solenoid valve.	4000 hrs Kit. Air-end.
VEGA 7.5-13					
VEGA 7.5-10					
VEGA 11-08					
VEGA 11-10					
VEGA 11-13					
VEGA 15-08					
VEGA 15-10					
VEGA 15-13					
VEGA-STAR 7.5-08 ES	Air filter cartridge.	Air filter cartridge. Oil filter cartridge. Separator cartridge. Oil check valve. Oil. Dryer air filter.	4000 hrs Kit. Pipes. Minimum pressure valve.	4000 hrs Kit. Belt. Intake regulator kit. Solenoid valve.	4000 hrs Kit. Air-end.
VEGA-STAR 7.5-13 ES					
VEGA-STAR 7.5-10 ES					
VEGA-STAR 11-08 ES					
VEGA-STAR 11-10 ES					
VEGA-STAR 11-13 ES					
VEGA-STAR 15-08 ES					
VEGA-STAR 15-10 ES					
VEGA-STAR 15-13 ES					
Long Life Kit for 18.5 - 22 kW	2.000 h	4.000 h ** (or every year)	8.000 h	12.000 h	20.000 h
VEGA 18.5-08	Air filter cartridge.	Air filter cartridge. Oil filter cartridge. Separator cartridge. Oil check valve. Oil.	4000 hrs Kit. Intake regulator kit.	4000 hrs Kit. Belt. Minimum pressure valve kit. Solenoid valve. Pipes.	4000 hrs Kit. Air-end.
VEGA 18.5-10					
VEGA 18.5-13					
VEGA 22-08					
VEGA 22-10					
VEGA 22-13					
VEGA-STAR 18.5-08 ES		Air filter cartridge. Oil filter cartridge. Separator cartridge. Oil check valve. Oil. Dryer air filter.	4000 hrs Kit. Intake regulator kit.	4000 hrs Kit. Belt. Minimum pressure valve kit. Solenoid valve. Pipes.	4000 hrs Kit. Air-end.
VEGA-STAR 18.5-10 ES					
VEGA-STAR 18.5-13 ES					
VEGA-STAR 22-08 ES					
VEGA-STAR 22-10 ES					
VEGA-STAR 22-13 ES					

** We recommend to change oil at the indicated interval or every year. We suggest to use our RotEnergyPlus oil (NOT INCLUDED IN THE LONG LIFE KIT).

Flexible hoses for tank-compressor connection



#199140618	3/4" x 1600 mm.
#199418000	1" x 1200 mm.
#199110810	1"-1/4 x 1200 mm.
#199MB0010	DN 80x1000 mm.
#199MB0001	2" x 1500 mm.

EasyX4 sequencer

code #405531604

Capable of controlling **up to 4 compressors**, based on the amount of air actually required and provides a weekly programmable sequence with three levels of programming:
Manual, compressors are fixed to a given operational pressure range;
Automatic, with pressure range swapping after a programmable time interval;
Group programming, where compressors can be switched within groups.



Twin Start sequencer

code #305072618

Makes it possible to control **two compressors** simultaneously, changing the sequence of their intervention based on the compressed air actually required.





FINI NUAIR S.p.A.

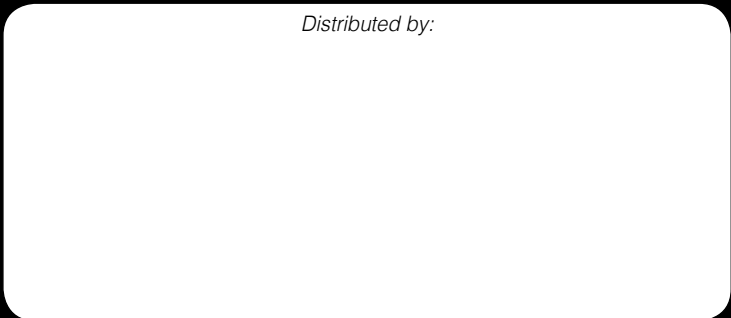
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