

CE IE3



Belt-driven rotary screw compressors



7.5-22 kW

**STAR
VEGA
2019**

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-tank technology 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.
- Visual indicator of the dryer's dew point level (integrated dryer versions).

Preventive and targeted maintenance

- automatic sending of e-mails in case of alarms,
- possibility of sending e-mails which notify the compressor status and settings at pre-set intervals (hourly, daily or weekly).

Remote control of the compressor

- access to the various menu levels (user, service),
- compressor online status check,
- on/off control,
- no additional software is required.

ETIV advanced electronic controller



SMS Device Service Management System

SMS is the innovative device for the remote control and predictive maintenance of 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 pre-set thresholds (every hour, every day, every week): this feature allows you to schedule routine maintenance and 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.

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 are also available with Variable Speed option (VS models), 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.

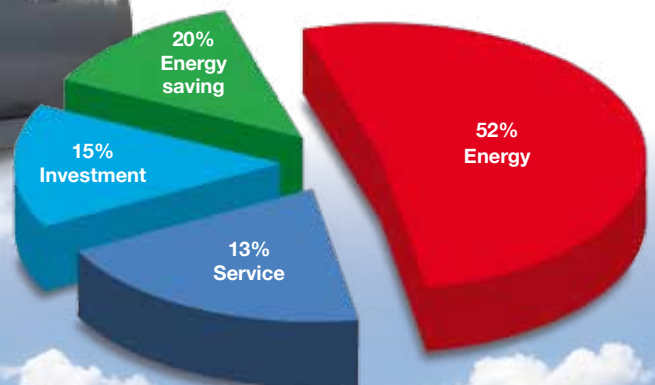
The electronic controller monitors and controls the motor speed, modulating the air production in order to keep constant pressure in the network: immediate advantages of this feature are the constant network pressure, the optimized electric power consumption, matching the real compressed air demand, 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

MANAGEMENT COSTS

The graph shows the considerable energy savings achieved with a variable speed compressor in a typical installation.





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.



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

Extremely robust and reliable electro-pneumatic system manufactured and designed by NUAIR: adjusts compressor operation to guarantee minimum pressure when idle running and provide maximum energy savings at start-up. All this translates into an excellent energy cost and performance ratio.



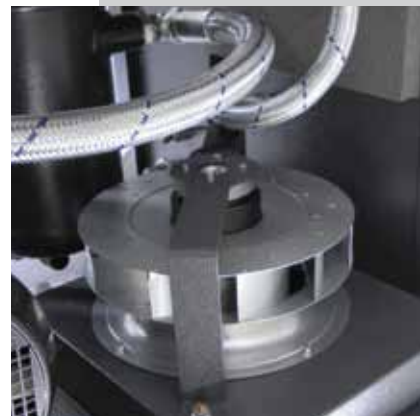
EASE OF MAINTENANCE

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 TRANSMISSION

The POLY-V belt transmission guarantees high efficiency and durability of up to three times longer compared to the standard "V" type range. Tensioning is simple and precise thanks to the adjustable slide system.



MINIMUM PRESSURE VALVE

Made of oxidation-resistant materials, it is exclusively designed and manufactured by NUAIR. Great attention to construction to ensure operation even in extreme conditions.



BALL VALVE

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



PLUG & PLAY

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 7.5-10



VEGA 22-10



VEGA 11-10 VS



VEGA 22-10 VS

VEGA		Motor Power		Air delivered (max. / min.)			Working pressure		Noise level	Conne- ction	Net Weight		Net 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	V60SG92N1N264	7.5	10	1250	75	44.1	8	116	62	3/4"	245	540	120 x 70 x 100
VEGA 7.5-10	V60SH92N1N264	7.5	10	1000	60	35.3	10	145	62	3/4"	245	540	120 x 70 x 100
VEGA 7.5-13	V60SM92N1N264	7.5	10	750	45	26.5	13	188	62	3/4"	245	540	120 x 70 x 100
VEGA 11-08	V60SN92N1N264	11	15	1650	99	58.2	8	116	63	3/4"	253	558	120 x 70 x 100
VEGA 11-10	V60SP92N1N264	11	15	1500	90	53	10	145	63	3/4"	253	558	120 x 70 x 100
VEGA 11-13	V60SQ92N1N264	11	15	1150	69	40.6	13	188	63	3/4"	253	558	120 x 70 x 100
VEGA 15-08	V60SR92N1N264	15	20	2150	129	75.9	8	116	64	3/4"	275	606	120 x 70 x 100
VEGA 15-10	V60SS92N1N264	15	20	1850	111	65.3	10	145	64	3/4"	275	606	120 x 70 x 100
VEGA 15-13	V60ST92N1N264	15	20	1550	93	54.7	13	188	64	3/4"	275	606	120 x 70 x 100
VEGA 18.5-08	V60SU92N1N264	18.5	25	2800	168	98.9	8	116	70	3/4"	380	838	151 x 73 x 108
VEGA 18.5-10	V60SV92N1N264	18.5	25	2500	150	88.3	10	145	70	3/4"	380	838	151 x 73 x 108
VEGA 18.5-13	V60SZ92N1N264	18.5	25	2150	129	75.9	13	188	70	3/4"	380	838	151 x 73 x 108
VEGA 22-08	V60SJ92N1N264	22	30	3350	201	118.3	8	116	71	3/4"	404	890	151 x 73 x 108
VEGA 22-10	V60SY92N1N264	22	30	3000	180	106	10	145	71	3/4"	404	890	151 x 73 x 108
VEGA 22-13	V60SW92N1N264	22	30	2400	144	84.7	13	188	71	3/4"	404	890	151 x 73 x 108
WITH INTEGRATED DRYER AND FILTERS													
VEGA 7.5-08 ES	V60SG92N1N364	7.5	10	1250	75	44.1	8	116	62	3/4"	280	617	120 x 70 x 100
VEGA 7.5-10 ES	V60SH92N1N364	7.5	10	1000	60	35.3	10	145	62	3/4"	280	617	120 x 70 x 100
VEGA 7.5-13 ES	V60SM92N1N364	7.5	10	750	45	26.5	13	188	62	3/4"	280	617	120 x 70 x 100
VEGA 11-08 ES	V60SN92N1N364	11	15	1650	99	58.2	8	116	63	3/4"	293	624	120 x 70 x 100
VEGA 11-10 ES	V60SP92N1N364	11	15	1500	90	53	10	145	63	3/4"	293	646	120 x 70 x 100
VEGA 11-13 ES	V60SQ92N1N364	11	15	1150	69	40.6	13	188	63	3/4"	293	646	120 x 70 x 100
VEGA 15-08 ES	V60SR92N1N364	15	20	2150	129	75.9	8	116	64	3/4"	315	694	120 x 70 x 100
VEGA 15-10 ES	V60SS92N1N364	15	20	1850	111	65.3	10	145	64	3/4"	315	694	120 x 70 x 100
VEGA 15-13 ES	V60ST92N1N364	15	20	1550	93	54.7	13	188	64	3/4"	315	694	120 x 70 x 100
VEGA 18.5-08 ES	V60SU92N1N364	18.5	25	2800	168	98.9	8	116	70	3/4"	426	940	151 x 73 x 108
VEGA 18.5-10 ES	V60SV92N1N364	18.5	25	2500	150	88.3	10	145	70	3/4"	426	940	151 x 73 x 108
VEGA 18.5-13 ES	V60SZ92N1N364	18.5	25	2150	129	75.9	13	188	70	3/4"	426	940	151 x 73 x 108
VEGA 22-08 ES	V60SJ92N1N364	22	30	3350	201	118.3	8	116	71	3/4"	449	989	151 x 73 x 108
VEGA 22-10 ES	V60SY92N1N364	22	30	3000	180	106	10	145	71	3/4"	449	989	151 x 73 x 108
VEGA 22-13 ES	V60SW92N1N364	22	30	2400	144	84.7	13	188	71	3/4"	449	989	151 x 73 x 108
FLOOR MOUNTED, VARIABLE SPEED													
VEGA 11-08 VS	V60SN97N1N064	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	261	575	120 x 70 x 100
VEGA 11-10 VS	V60SP97N1N064	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	261	575	120 x 70 x 100
VEGA 22-08 VS	V60SJ97N1N564	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	3/4"	431	950	151 x 73 x 108
VEGA 22-10 VS	V60SY97N1N564	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	3/4"	431	950	151 x 73 x 108
FLOOR MOUNTED, VARIABLE SPEED, WITH INTEGRATED DRYER AND FILTERS													
VEGA 11-08 ES-VS	V60SN97N2N064	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	301	663	120 x 70 x 100
VEGA 11-10 ES-VS	V60SP97N2N064	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	301	663	120 x 70 x 100
VEGA 22-08 ES-VS	V60SJ97N2N564	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	3/4"	476	1049	151 x 73 x 108
VEGA 22-10 ES-VS	V60SY97N2N564	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	3/4"	476	1049	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 11-10-270 VS



STAR 22-10-500



STAR 22-10-500 VS

STAR		Tank	Motor Power		Air delivered (ma x . / min.)			Working pressure		Noise level	Connec- tion	Net Weight		Net Dimensions L x W x H
Model	Code		litres	kW	HP	l/min.	m³/h	c.f.m.	bar	p.s.i.	dB(A)	G	kg	lbs
WITH 270-LT. AIR RECEIVER, INTEGRATED DRYER AND FILTERS														
STAR 7.5-08-270	V91SG92N1N344	270	7.5	10	1250	75	44.1	8	116	62	3/4"	350	771	156 x 70 x 158
STAR 7.5-10-270	V91SH92N1N344	270	7.5	10	1000	60	35.3	10	145	62	3/4"	350	771	156 x 70 x 158
STAR 7.5-13-270	V91SM92N1N344	270	7.5	10	750	45	26.5	13	188	62	3/4"	360	793	156 x 70 x 158
STAR 11-08-270	V91SN92N1N344	270	11	15	1650	99	58.2	8	116	65	3/4"	363	800	156 x 70 x 158
STAR 11-10-270	V91SP92N1N344	270	11	15	1500	90	53	10	145	65	3/4"	363	800	156 x 70 x 158
STAR 11-13-270	V91SQ92N1N344	270	11	15	1150	69	40.6	13	188	65	3/4"	373	822	156 x 70 x 158
WITH 500-LT. AIR RECEIVER, INTEGRATED DRYER AND FILTERS														
STAR 7.5-08-500	V83SG92N1N344	500	7.5	10	1250	75	44.1	8	116	62	3/4"	408	899	198 x 70 x 167
STAR 7.5-10-500	V83SH92N1N344	500	7.5	10	1000	60	35.3	10	145	62	3/4"	408	899	198 x 70 x 167
STAR 7.5-13-500	V83SM92N1N344	500	7.5	10	750	45	26.5	13	188	62	3/4"	439	967	198 x 70 x 167
STAR 11-08-500	V83SN92N1N344	500	11	15	1650	99	58.2	8	116	65	3/4"	421	928	198 x 70 x 167
STAR 11-10-500	V83SP92N1N344	500	11	15	1500	90	53	10	145	65	3/4"	421	928	198 x 70 x 167
STAR 11-13-500	V83SQ92N1N344	500	11	15	1150	69	40.6	13	188	63	3/4"	452	996	198 x 70 x 167
STAR 15-08-500	V83SR92N1N344	500	15	20	2150	129	75.9	8	116	65	3/4"	443	976	198 x 70 x 167
STAR 15-10-500	V83SS92N1N344	500	15	20	1850	111	65	10	145	65	3/4"	443	976	198 x 70 x 167
STAR 15-13-500	V83ST92N1N344	500	15	20	1550	93	55	13	188	64	3/4"	474	1045	198 x 70 x 167
STAR 18.5-08-500	V83SU92N1N344	500	18.5	25	2800	168	98.9	8	116	70	3/4"	563	1241	198 x 73 x 175
STAR 18.5-10-500	V83SV92N1N344	500	18.5	25	2500	150	88	10	145	70	3/4"	563	1241	198 x 73 x 175
STAR 18.5-13-500	V83SZ92N1N344	500	18.5	25	2150	129	75.9	13	188	70	3/4"	594	1309	198 x 73 x 175
STAR 22-08-500	V83SJ92N1N344	500	22	30	3350	201	118.3	8	116	71	3/4"	568	1252	198 x 73 x 175
STAR 22-10-500	V83SY92N1N344	500	22	30	3000	180	106	10	145	71	3/4"	568	1252	198 x 73 x 175
STAR 22-13-500	V83SW92N1N344	500	22	30	2400	144	84.7	13	188	71	3/4"	599	1320	198 x 73 x 175
VARIABLE SPEED, WITH AIR RECEIVER, INTEGRATED DRYER AND FILTERS														
STAR 11-08-270 VS	V91SN97N2N544	270	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	371	818	156 x 70 x 158
STAR 11-10-270 VS	V91SP97N2N544	270	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	371	818	156 x 70 x 158
STAR 11-08-500 VS	V83SN97N2N544	500	11	15	1650 / 660	99 / 39	59 / 23	8	116	63	3/4"	429	945	198 x 70 x 167
STAR 11-10-500 VS	V83SP97N2N544	500	11	15	1500 / 600	90 / 36	53 / 21	10	145	63	3/4"	429	945	198 x 70 x 167
STAR 22-08-500 VS	V83SJ97N2N544	500	22	30	3350 / 1340	198 / 79	116 / 46	8	116	71	3/4"	595	1311	198 x 73 x 175
STAR 22-10-500 VS	V83SY97N2N544	500	22	30	3000 / 1200	174 / 69	102 / 41	10	145	71	3/4"	595	1311	198 x 73 x 175

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 is the brand of the original spare parts for NUAIR compressors and identifies after-sales services. It guarantees that the components are original and that they were carefully selected, checked and tested by skilled technicians. Using FSN certified original spare parts reduces management costs and guarantees the efficiency, reliability and longevity 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

- To make it easier to replace components throughout the various maintenance intervals specified in the use and maintenance manuals, NUAIR developed its LONG LIFE KITS, specifically created for all screw compressor models. Using Long Life Kit ensures the maximum performances of the compressor. You can download the LLK catalogues from the website www.nuair.it and see the exploded drawings and spare parts, constantly updated for each compressor model.

Oil

- Our FSN lubricants, selected from the best suppliers in all over the world, are specifically designed for use on our screw compressors. They are available in cans, in drums, or in multiple packs.



Rotar ECOFLUID OIL - MINERAL BASE

#600000020	RotarECOFLUID 46 cSt - 1 x 3.8 L (3.3 kg) tank
#600000021	RotarECOFLUID 46 cSt - 1 x 20 L (17.36 kg) tank
#600000022	RotarECOFLUID 46 cSt - 1 x 200 L (174 kg) drum



RotEnergy Plus OIL - SYNTHETIC BASE

#600000018A	RotEnergyPlus 46 cSt - 1 x 3.8 L (3.25 kg) tank
#600000009A	RotEnergyPlus 46 cSt - 4 tanks x 3.8 L (3.25 kg) each
#600000007A	RotEnergyPlus 46 cSt - 1 x 19 L (16 kg) tank
#600000012A	RotEnergyPlus 46 cSt - 1 x 208 L (181 kg) drum



RotEnergyFood OIL - SYNTHETIC BASE (suitable for use in the food industry)

#600000014A	RotEnergyFood 46 cSt - 4 tanks x 3.9 L (3.25 kg) each
#600000016A	RotEnergyFood 46 cSt - 1 x 19 L (18.5 kg) tank
#600000017A	RotEnergyFood 46 cSt - 1 x 208 L (175 kg) drum



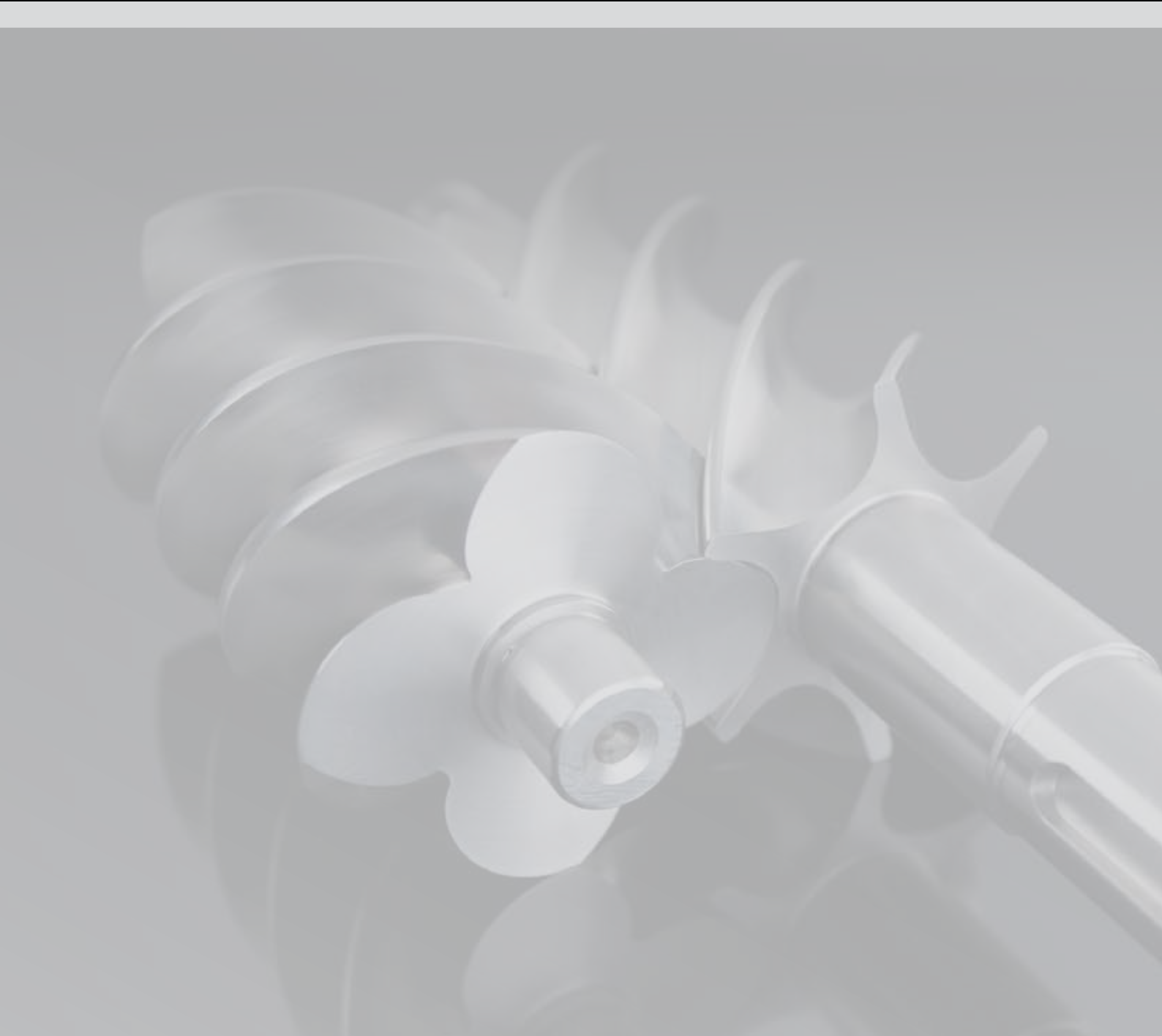
We recommend to change the oil according to the interval reported in the use and maintenance manual of the compressor or at least once a year.
We suggest the use of our lubricants RotEnergyPlus and RotEnergyFood (synthetic base) and RotarECOFLUID (mineral base).
THE OILS ARE NOT INCLUDED IN THE LONG LIFE KITS.

Long Life Kit: a profitable, affordable and safe choice!

The table shows the maintenance interval using synthetic oil. If mineral oil is used, it is strictly necessary to follow the instructions given in the use and maintenance manual of each individual compressor.

VEGA 7.5 - 11 - 15 kW		2,000 h (or every year)	4,000 h (or every year)	8,000 h	12,000 h
			KIT B	KIT D	KIT E
VEGA 7.5 - 11 - 15		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.	1 x 4000 hrs Kit.
VEGA 11 VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 1 Prefilter.	1 Minimum pressure valve kit.	1 Solenoid valve 1 Poly-V belt
VEGA 7.5 - 11 - 15 ES		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.	1 x 4000 hrs Kit.
VEGA 11 ES VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 2 Dryer air filters.	1 Minimum pressure valve kit.	1 Solenoid valve 1 Poly-V belt
STAR 7.5 - 11 - 15 kW		2,000 h (or every year)	4,000 h (or every year)	8,000 h	12,000 h
			KIT B	KIT D	KIT E
STAR 7.5 - 11 - 15		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.	1 x 4000 hrs Kit.
STAR 11 VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 2 Dryer air filters.	1 Minimum pressure valve kit.	1 Solenoid valve 1 Poly-V belt

VEGA 18.5 - 22 kW		2,000 h (or every year)	4,000 h (or every year)	12,000 h
			KIT B	KIT E
VEGA 18.5 - 22		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.
VEGA 22 VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 1 Prefilter.	1 Minimum pressure valve kit. 1 Poly-V belt 1 Solenoid valve
VEGA 18.5 - 22 ES		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.
VEGA 22 ES VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 2 Dryer air filters.	1 Kit valvola pressione minima 1 Poly-V belt 1 Solenoid valve
STAR 18.5 - 22 kW		2,000 h (or every year)	4,000 h (or every year)	12,000 h
			KIT B	KIT E
STAR 18.5 - 22		1 Air filter cartridge.	1 Air filter cartridge.	1 x 4000 hrs Kit.
STAR 22 VS			1 Oil filter cartridge. 1 Separator cartridge. 1 Oil check valve. 2 Dryer air filters.	1 Minimum pressure valve kit. 1 Poly-V belt 1 Solenoid valve



FNA S.p.A.

Via Einaudi, 6 - 10070 Robassomero (TO) - Italy
Tel. +39 011 9233000 - Fax +39 011 9241138
www.nuair.it - info@fnacompressors.com



Authorized Distributor:

The models and specifications reported in this catalogue are subject to change without fore-notice.