Sirio 8 - 11 - 15 - 16

Construction features and advantages:

- Working pressure: 8 - 10 and 13 bar, with power of 7.5 - 11 - 15 kW.
- The ETMII electronic controller manages all compressor functions and enables system diagnostics.
- Intake regulator IR20, separator unit and minimum pressure/check valve: NU AIR design and production.
- Cooling system designed for operation even in extreme conditions, ensuring the ideal working temperature.
- Tank-mounted versions are also available with refrigeration dryer (ES), ready for instant operation without any additional effort.
- Oil filter and separator filter are spin-on type to grant high efficiency and easy maintenance. Both filters are installed on a common block designed and manufactured by NU AIR.

*Main functions of the **ETMII** controller: double hour counters (total hours, load hours), 4 maintenance hour counters, remote ON/OFF control and phase sequence relay to check air-end direction of rotation.*

SIRIO 8-10

FS50 TF

FS26 TF

FS26 TF and FS50 TF air-ends are completely designed and produced in Italy. FS50 TF is mounted on Sirio 16 models.

Available versions:

- floor mounted compressor;
- compressor + air receiver (270 or 500 liters);
- compressor + air receiver (270 or 500 liters) + air dryer.

SIRIO 8-10

SIRIO 11-10-270

SIRIO 15-10-500 ES

7.5-15 kW (10-20 HP)

Model	Code	Tank capacity	Motor Power		Air delivered			Working pressure		Noise level	Connec-tion	Weight		Dimensions
		ℓ	kW	HP	l/min.	m³/h	c.f.m.	bar	p.s.i.	dB(A)	G	kg	lbs	L x W x H (cm)
Floor mounted														
SIRIO 8-08	V60KD92N1N764	–	7.5	10	1250	75	44.1	8	116	68	3/4"	185	407	80 x 70 x 98
SIRIO 8-10	V60KH92N1N764	–	7.5	10	1000	60	35.3	10	145	68	3/4"	185	407	80 x 70 x 98
SIRIO 8-13	V60KA92N1N764	–	7.5	10	750	45	26.5	13	188	68	3/4"	185	407	80 x 70 x 98
SIRIO 11-08	V60KF92N1N764	–	11	15	1650	99	58.2	8	116	69	3/4"	200	440	80 x 70 x 98
SIRIO 11-10	V60KE92N1N764	–	11	15	1500	90	53	10	145	69	3/4"	200	440	80 x 70 x 98
SIRIO 11-13	V60KB92N1N764	–	11	15	1100	66	38.8	13	188	69	3/4"	200	440	80 x 70 x 98
SIRIO 15-08	V60KP92N1N764	–	15	20	2150	129	75.9	8	116	70	3/4"	235	517	80 x 70 x 98
SIRIO 15-10	V60KQ92N1N764	–	15	20	1850	111	65.3	10	145	70	3/4"	235	517	80 x 70 x 98
SIRIO 15-13	V60KR92N1N764	–	15	20	1500	90	53	13	188	70	3/4"	235	517	80 x 70 x 98
SIRIO 16-08	V60KS92N1N764	–	15	20	2350	141	83	8	116	68	3/4"	240	528	80 x 70 x 98
SIRIO 16-10	V60KU92N1N764	–	15	20	2050	123	72.4	10	145	68	3/4"	240	528	80 x 70 x 98
SIRIO 16-13	V60KW92N1N764	–	15	20	1750	105	61.8	13	188	68	3/4"	240	528	80 x 70 x 98
With tank														
SIRIO 8-08-270	V91KD92N1N744	270	7.5	10	1250	75	44.1	8	116	68	3/4"	245	541	155 x 70 x 151
SIRIO 8-10-270	V91KH92N1N744	270	7.5	10	1000	60	35.3	10	145	68	3/4"	245	541	155 x 70 x 151
SIRIO 11-08-270	V91KF92N1N744	270	11	15	1650	99	58.2	8	116	69	3/4"	260	574	155 x 70 x 151
SIRIO 11-10-270	V91KE92N1N744	270	11	15	1500	90	53	10	145	69	3/4"	260	574	155 x 70 x 151
SIRIO 8-08-500	V83KD92N1N744	500	7.5	10	1250	75	44.1	8	116	68	3/4"	307	678	198 x 70 x 163
SIRIO 8-10-500	V83KH92N1N744	500	7.5	10	1000	60	35.3	10	145	68	3/4"	307	678	198 x 70 x 163
SIRIO 11-08-500	V83KF92N1N744	500	11	15	1650	99	58.2	8	116	69	3/4"	322	711	198 x 70 x 163
SIRIO 11-10-500	V83KE92N1N744	500	11	15	1500	90	53	10	145	69	3/4"	322	711	198 x 70 x 163
SIRIO 15-08-500	V83KP92N1N744	500	15	20	2150	129	75.9	8	116	70	3/4"	357	788	198 x 70 x 163
SIRIO 15-10-500	V83KQ92N1N744	500	15	20	1850	111	65.3	10	145	70	3/4"	357	788	198 x 70 x 163
SIRIO 16-08-500	V83KS92N1N744	500	15	20	2350	141	83	8	116	68	3/4"	362	799	198 x 70 x 163
SIRIO 16-10-500	V83KU92N1N744	500	15	20	2050	123	72.4	10	145	68	3/4"	362	799	198 x 70 x 163
With tank and dryer														
SIRIO 8-08-270 ES	V91KD92N1N844	270	7.5	10	1250	75	44.1	8	116	68	3/4"	343	757	155 x 70 x 151
SIRIO 8-10-270 ES	V91KH92N1N844	270	7.5	10	1000	60	35.3	10	145	68	3/4"	343	757	155 x 70 x 151
SIRIO 11-08-270 ES	V91KF92N1N844	270	11	15	1650	99	58.2	8	116	69	3/4"	363	801	155 x 70 x 151
SIRIO 11-10-270 ES	V91KE92N1N844	270	11	15	1500	90	53	10	145	69	3/4"	363	801	155 x 70 x 151
SIRIO 8-08-500 ES	V83KD92N1N844	500	7.5	10	1250	75	44.1	8	116	68	3/4"	375	828	198 x 70 x 163
SIRIO 8-10-500 ES	V83KH92N1N844	500	7.5	10	1000	60	35.3	10	145	68	3/4"	375	828	198 x 70 x 163
SIRIO 11-08-500 ES	V83KF92N1N844	500	11	15	1650	99	58.2	8	116	69	3/4"	395	872	198 x 70 x 163
SIRIO 11-10-500 ES	V83KE92N1N844	500	11	15	1500	90	53	10	145	69	3/4"	395	872	198 x 70 x 163
SIRIO 15-08-500 ES	V83KP92N1N844	500	15	20	2150	129	75.9	8	116	70	3/4"	436	962	198 x 70 x 163
SIRIO 15-10-500 ES	V83KQ92N1N844	500	15	20	1850	111	65.3	10	145	70	3/4"	436	962	198 x 70 x 163
SIRIO 16-08-500 ES	V83KS92N1N844	500	15	20	2350	141	83	8	116	68	3/4"	436	962	198 x 70 x 163
SIRIO 16-10-500 ES	V83KU92N1N844	500	15	20	2050	123	72.4	10	145	68	3/4"	436	962	198 x 70 x 163

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.

Ventilation

Compressor cabinet is cooled by the axial fan directly controlled by the ETMII, in order to quickly reach and maintain the operating temperature ideal for efficient operation.

Pressure transducer

It guarantees an accurate and stable operation. The transducer makes it possible to directly modify the working pressure from the electronic controller without any mechanical intervention.

Drive

The Poly-V belt guarantees long service life (lasts at least twice as long as a standard belt) and minimum maintenance.

Sirio 18.5 - 22

Construction features and advantages:

- These compressors are entirely designed and manufactured so that they function as an integral whole with the maximum efficiency.
- All most important components of the compressor are machined internally with highly innovative process controlled machines: this allows full control on the production cycle and over the total quality of the complete compressor.
- The cooling air flow, channeled by the thermostatically controlled fan, cools down an oversized combined oil/air heat exchanger: this permits the compressor run in severe temperature conditions.
- The wide front and rear panels grants ease of access, reducing inspection and maintenance time.
- Available with dryer.
- 22 kW model (Sirio 22 VS) is also available with Variable Speed.

SIRIO 22-10

Dryer module

Sirio 18.5 and 22 models with dryer module provide clean, dry air that improves the system's reliability, avoids costly downtime and production delays, and safeguards the quality of your products.

FS50 TF

Air-end entirely designed and made in Italy, just as the intake regulator, separator block with minimum pressure/check valve and thermostatic valve.

SIRIO 22-10 ES

18.5-22 kW (25-30 HP)

Model	Code	Motor Power		Air delivered (for VS models the data refer to max. / min. values)			Working pressure		Noise level	Connec-tion	Weight		Dimensions
		kW	HP	l/min.	m³/h	c.f.m.	bar	p.s.i.	dB(A)	G	kg	lbs	L x W x H (cm)
SIRIO 18.5-08	V60QA92N1N764	18.5	25	2800	168	99	8	116	66	3/4"	350	774	135 x 80 x 113
SIRIO 18.5-10	V60QB92N1N764	18.5	25	2500	150	88	10	145	66	3/4"	350	774	135 x 80 x 113
SIRIO 18.5-13	V60QC92N1N764	18.5	25	2150	129	76	13	188	66	3/4"	350	774	135 x 80 x 113
SIRIO 22-08	V60QD92N1N764	22	30	3400	204	120	8	116	68	3/4"	380	840	135 x 80 x 113
SIRIO 22-10	V60QE92N1N764	22	30	3000	180	106	10	145	68	3/4"	380	840	135 x 80 x 113
SIRIO 22-13	V60QF92N1N764	22	30	2400	144	85	13	188	68	3/4"	380	840	135 x 80 x 113
With dryer													
SIRIO 18.5-08 ES	V60QA92N1N864	18.5	25	2800	168	99	8	116	66	3/4"	400	883	169 x 80 x 113
SIRIO 18.5-10 ES	V60QB92N1N864	18.5	25	2500	150	88	10	145	66	3/4"	400	883	169 x 80 x 113
SIRIO 18.5-13 ES	V60QC92N1N864	18.5	25	2150	129	76	13	188	66	3/4"	400	883	169 x 80 x 113
SIRIO 22-08 ES	V60QD92N1N864	22	30	3400	204	120	8	116	68	3/4"	430	949	169 x 80 x 113
SIRIO 22-10 ES	V60QE92N1N864	22	30	3000	180	106	10	145	68	3/4"	430	949	169 x 80 x 113
SIRIO 22-13 ES	V60QF92N1N864	22	30	2400	144	85	13	188	68	3/4"	430	949	169 x 80 x 113
Variable Speed													
SIRIO 22-08 VS	V60QD97N1N764	22	30	3400 / 1350	204 / 81	120 / 48	8	116	68	3/4"	390	861	135 x 80 x 113
SIRIO 22-10 VS	V60QE97N1N764	22	30	3050 / 1220	183 / 73.2	108 / 43	10	145	68	3/4"	390	861	135 x 80 x 113
SIRIO 22-08 ES VS	V60QD97N1N864	22	30	3400 / 1350	204 / 81	120 / 48	8	116	68	3/4"	440	971	169 x 80 x 113
SIRIO 22-10 ES VS	V60QE97N1N864	22	30	3050 / 1220	183 / 73.2	108 / 43	10	145	68	3/4"	440	971	169 x 80 x 113

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.

ETIV electronic controller

Advanced controller with backlit display and extended multilingual messaging. 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.

Belt-driven transmission

Transmission between air-end and electric motor is performed by Poly-V belts ensuring long life and minimum maintenance.

Minimum pressure valve

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

Intake regulator

Normally closed electropneumatic 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.

Cooling system

The axial fan ensures the ideal operating temperature, even in extreme working conditions.
All air-oil circuit hoses are made of rubber covered with a metal mesh resistant to high temperature.

Prefiltering panel

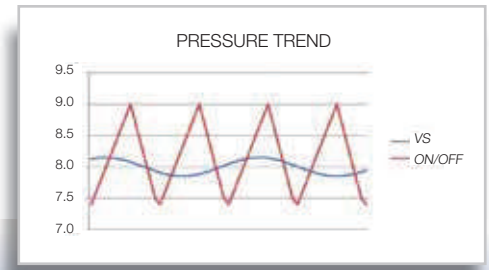
The ventilation circuit is completed by a cabinet prefiltering panel (standard on every model) that separates the incoming dusts.

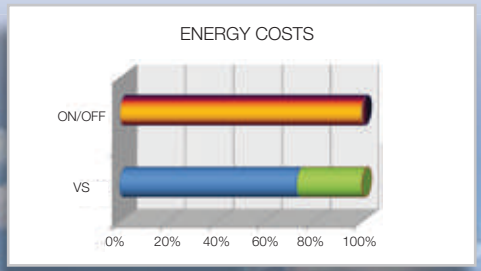
Variable Speed drive = Energy saving

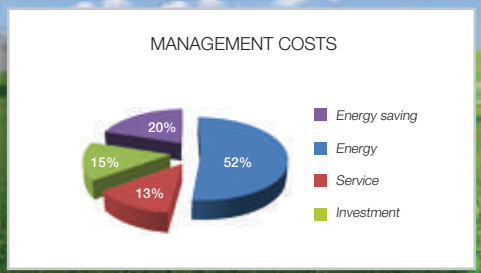
Energy costs and maintenance costs significantly exceed the initial investment in a Company. The NU AIR Variable Speed range, especially in systems with variable air consumption, ensures the reduction of energy costs.
Sirio 22, 38, 56 and 75 models are also available as Variable Speed (VS) option, equipped 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**







Screw technology

NU AIR air-ends feature **one of the most advanced rotor profile design available**. The manufacturing process is fully **integrated**, thanks to ultra modern machine tools and sophisticated operating instrumentation that provide the highest quality standard.

A solid modeling CAD system ensures the ideal components arrangement.

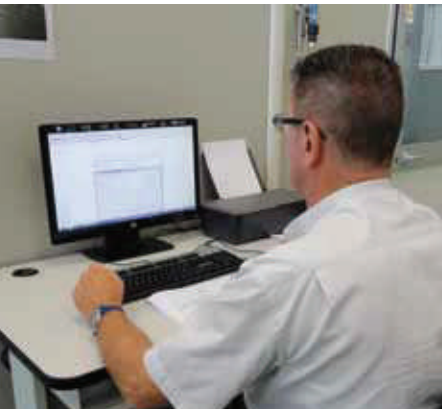
The production process of the rotors goes through 4 different machining steps that make it possible to achieve superior machining accuracy and consistent performance. This level of precision means any male rotor can be perfectly matched with any female counterpart.

All air-ends are individually tested two times: after their manufacture and a further time following assembly on the completed compressor.

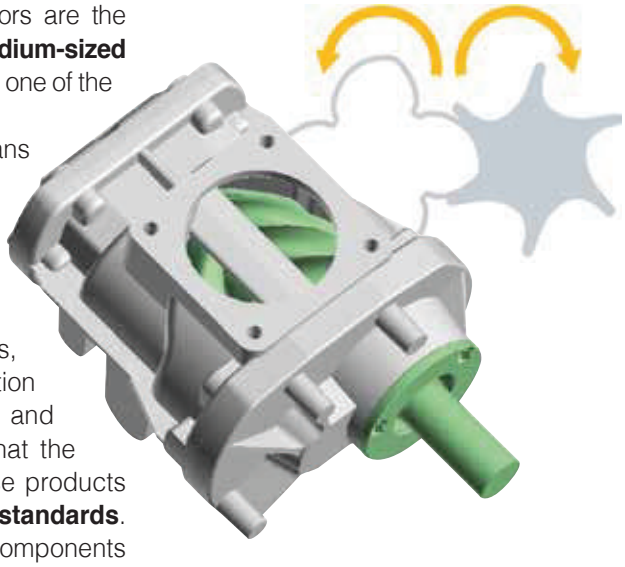
Innovation

NU AIR's **construction philosophy is based on the selection and simple assembly** of the most reliable and efficient technical solutions.
The higher wear resistant Poly-V belt drive, the oversized combined air/oil exchanger with centrifugal cooling fan and thermostatic control to ensure the ideal operating temperature, and high-efficiency electrical motors, make NU AIR compressors robust and reliable work companions, even in the most heavy-duty conditions.

Quality



NU AIR rotary screw compressors are the answer to the needs of **small and medium-sized enterprises**, where compressed air is one of the main sources of energy.
A team of highly skilled technicians and operators work meticulously to check product efficiency and quality, relying on the most up-to-date technology and sophisticated equipment. Assembly and testing performed on automated lines, robotic systems of the latest generation and computer tools for design and control are the main investments that the company has implemented to realise products that meet the market's **quality standards**. In addition and most importantly, components are manufactured on CNC machines and are **100% tested**.



Production

The entire production procedure is carried out **in-house, at our Italian production plants**; design, machining, assembly, testing, packaging and shipment.
Every product, built in compliance to the applicable standards, is closely followed up in all process steps by trained and qualified staff, to ensure that specific quality and functional tests are passed.
Besides the fully-assembled product, NU AIR offers a wide range of air-ends, intake regulators, thermostatic valves and accessories for the assembly of rotary compressors.

Product range assets

NU AIR is a worldwide leader in the production of air compressors suitable to all industrial and professional sectors. **NU AIR** offers a wide range of products designed to suit all applications and consolidated by a broad choice of accessories for compressed air distribution and treatment.

NU AIR SCREW COMPRESSORS are designed to offer reliable and efficient operation, optimisation of energy consumption, reduced operating and energy costs and simple installation and use.
All models in the range have the following benefits in common, which are typical of NU AIR screw technology:

- **IE3 Premium Efficiency motors**
  The IE3 high efficiency motors, combined with our high performance air-ends, minimize the energy costs. Furthermore, the IE3 motors reduce CO_2 emissions: an important contribution to protecting the environment.
- **High volumetric yield**
  The free air delivered from our high efficiency air-ends contributes to lower energy consumption and therefore significant savings.
- **Reliability**
  The low speed of the air-end guarantees minimal wear and long durability.
- **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.
- **Air dryer**
  Tank-mounted versions are also available with refrigeration dryer (ES), ready for instant operation without any additional effort.
- **Suitable for intense and non-stop operation**
  24hrs without performance drop.
- **Low installation cost**
  The versions fitted with a tank and dryer are ready for use, with no added cost of installation.
- **Low noise levels**
  This means the operator can install the compressor near the workstation.
- **Compact design means reduced dimensions**
- **Ease of maintenance**
  The internal mechanical parts are easy to access, to perform routine maintenance quickly and simply.

Poly-V belt
Provides long service life and minimum maintenance.

Intake valve
100% designed and made in Italy.

Minimum pressure valve
Built in house with oxide free material, fully machined. A sharp technical choice to grant maximum reliability in any operational conditions.

MADE IN ITALY

The entire manufacturing cycle is carried out in-house, ensuring our air-ends are 100% designed and made in Italy.

Advanced controllers

The advanced controllers fitted to the NU AIR screw compressors have been specifically developed to guarantee optimum monitoring and regulation of the compressors operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.

ETMII electronic controller

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 pressure);
- 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 electronic controller

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

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).

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:

Customer Care

Besides manufacturing products of the highest quality and technological content, NU AIR offers its customers a service that meets their demands. The first objective is to guarantee an all-round technical and marketing support, identifying their needs and offering the most suitable solutions, nurturing a relation of mutual cooperation and trust over time. NU AIR has a skilled and motivated team that can provide several services: a call center help-desk, technical on-site consultation, customized price quotes, turnkey projects, maintenance plans, update courses, etc.

"Hot-Line" Service: fast shipment of spare parts

Our "Hot-Line" service can prepare and ship urgent* spare parts orders within a day (if received before 12.00 p.m.).

** Specify "Hot-LIne" on the order. Max. 5 codes, 1 piece per code.*

NU AIR guarantees the origins of all components, which are specifically manufactured and tested to be used on our compressors.
The use of original, certified spare parts guarantees the efficiency and reliability of the compressor, it extends its lifespan and lowers maintenance costs.

FSN ORIGINAL SPARE PARTS

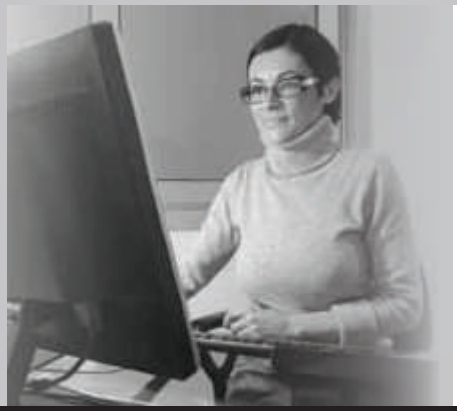
Original spare parts

2-year Warranty on screw unit and on electronic controller

We offer planned service agreements, with the option of extending the Warranty.

On the NU AIR website, it is possible to check out the exploded views and spare parts lists for any compressor model whenever needed.

www.nuair.it



On-line consultation of exploded views and spare parts lists