Sirio 31 - 38

Construction features and advantages:

- All major components of the compressor, such as the intake regulator, minimum pressure/check valve and separator unit, are designed and manufactured by NU AIR with highly evoluted CNC machines.
- 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.
- Transmission between air-end and electric motor is performed by Poly-V belts ensuring long life and minimum maintenance.
- 37 kW model (Sirio 38 VS) is also available with Variable Speed.

FS100

FS130

Our air-ends are entirely designed and made in Italy, just as the intake regulator and separator block with minimum pressure/check valve.
FS100 is mounted on Sirio 31 models.
FS130 is mounted on Sirio 38 models.

SIRIO 31-10

Dryer module

Sirio 31 and Sirio 38 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.

SIRIO 38-10 ES

30-37 kW (40-50 HP)

Model	Code	Motor Power		Air delivery (for VS models the data refer to max. / min. values)			Working pressure		Noise level	Connection	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 31-08	V60BU92N1N064	30	40	4700	282	165.9	8	116	70	1 -1/4"	630	1392	153 x 84 x 145
SIRIO 31-10	V60BV92N1N064	30	40	4200	252	148.3	10	145	70	1 -1/4"	630	1392	153 x 84 x 145
SIRIO 31-13	V60BW92N1N064	30	40	3400	204	120	13	188	70	1 -1/4"	630	1392	153 x 84 x 145
SIRIO 38-08	V60BK92N1N064	37	50	6000	360	212	8	116	68	1 -1/4"	700	1547	153 x 84 x 145
SIRIO 38-10	V60BJ92N1N064	37	50	5300	318	187	10	145	68	1 -1/4"	700	1547	153 x 84 x 145
SIRIO 38-13	V60BI92N1N064	37	50	4000	240	141	13	188	68	1 -1/4"	700	1547	153 x 84 x 145
With dryer													
SIRIO 31-08 ES	V60BU92N1N164	30	40	4700	282	165.9	8	116	70	1 -1/4"	710	1567	186 x 84 x 145
SIRIO 31-10 ES	V60BV92N1N164	30	40	4200	252	148.3	10	145	70	1 -1/4"	710	1567	186 x 84 x 145
SIRIO 31-13 ES	V60BW92N1N164	30	40	3400	204	120	13	188	70	1 -1/4"	710	1567	186 x 84 x 145
SIRIO 38-08 ES	V60BK92N1N164	37	50	6000	360	212	8	116	68	1 -1/4"	780	1721	186 x 84 x 145
SIRIO 38-10 ES	V60BJ92N1N164	37	50	5300	318	187	10	145	68	1 -1/4"	780	1721	186 x 84 x 145
SIRIO 38-13 ES	V60BI92N1N164	37	50	4000	240	141	13	188	68	1 -1/4"	780	1721	186 x 84 x 145
Variable Speed													
SIRIO 38-08 VS	V60BK97N1N064	37	50	5600 / 2000	336 / 120	197 / 70	8	116	72	1 -1/4"	725	1600	153 x 84 x 145
SIRIO 38-10 VS	V60BJ97N1N064	37	50	5000 / 1900	300 / 114	176 / 67	10	145	72	1 -1/4"	725	1600	153 x 84 x 145
SIRIO 38-08 ES VS	V60BK97N1N164	37	50	5600 / 2000	336 / 120	197 / 70	8	116	72	1 -1/4"	805	1777	186 x 84 x 145
SIRIO 38-10 ES VS	V60BJ97N1N164	37	50	5000 / 1900	300 / 114	176 / 67	10	145	72	1 -1/4"	805	1777	186 x 84 x 145

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.

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 temperatures.

Oil filter and separator filter

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

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.

Sirio 45 - 55 - 56 - 75

Construction features and advantages:

- Entirely developed and assembled in NU AIR Italian facilities.
  The superior components selection and the compact internal layout make this range of compressors stand out in terms of high performances and minimum footprint.
- The cooling air flow, channeled by the thermostatically controlled axial fan, cools down an oversized combined oil/air heat exchanger: this permits the compressor run in severe temperature conditions.
- Cabinet is fitted with a standard prefilter panel filtering the incoming cooling air: cleaner components for a longer life and easier servicing.
- Wide front and rear access panels allow easy maintenance and immediate check of all main components, reducing time of inspection and maintenance.
- 55 and 75 kW models (Sirio 56 and 75 VS) are also available with Variable Speed.

SIRIO 75-10

FS130

FS240

FS130 air-end is mounted on Sirio 45 and 55 models. FS240 air-end is mounted on Sirio 56 and 75 models.

SIRIO 55-10

45-75 kW (60-100 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 45-08	V60BM92N1N064	45	60	7200	432	254	7.5	109	72	1 -1/2"	910	2002	160 x 97 x 186
SIRIO 45-10	V60BN92N1N064	45	60	6500	390	229	10	145	72	1 -1/2"	910	2002	160 x 97 x 186
SIRIO 45-13	V60BQ92N1N064	45	60	5100	306	180	13	188	72	1 -1/2"	910	2002	160 x 97 x 186
SIRIO 55-08	V60BR92N1N064	55	75	8600	516	304	7.5	109	74	1 -1/2"	952	2094	160 x 97 x 186
SIRIO 55-10	V60BS92N1N064	55	75	7800	468	275	10	145	74	1 -1/2"	952	2094	160 x 97 x 186
SIRIO 55-13	V60BT92N1N064	55	75	6400	384	226	13	188	74	1 -1/2"	952	2094	160 x 97 x 186
SIRIO 56-08	V60BA92N1N064	55	75	9300	558	328	7.5	109	70	2"	1650	3630	180 x 110 x 215
SIRIO 56-10	V60BB92N1N064	55	75	8300	498	293	10	145	70	2"	1650	3630	180 x 110 x 215
SIRIO 56-13	V60BC92N1N064	55	75	7000	420	247	13	188	70	2"	1650	3630	180 x 110 x 215
SIRIO 75-08	V60BD92N1N064	75	100	12200	732	431	7.5	109	72	2"	1720	3784	180 x 110 x 215
SIRIO 75-10	V60BE92N1N064	75	100	10500	630	371	10	145	72	2"	1720	3784	180 x 110 x 215
SIRIO 75-13	V60BF92N1N064	75	100	8300	498	293	13	188	72	2"	1720	3784	180 x 110 x 215
Variable Speed													
SIRIO 56-08 VS	V60BA97N1N064	55	75	9300 / 3700	558 / 222	328 / 131	7.5	109	70	2"	1686	3721	180 x 110 x 215
SIRIO 56-10 VS	V60BB97N1N064	55	75	8300 / 3300	498 / 198	293 / 116	10	145	70	2"	1686	3721	180 x 110 x 215
SIRIO 75-08 VS	V60BD97N1N064	75	100	12200 / 4800	732 / 288	431 / 169	7.5	109	72	2"	1756	3875	180 x 110 x 215
SIRIO 75-10 VS	V60BE97N1N064	75	100	10500 / 4200	630 / 252	371 / 148	10	145	72	2"	1756	3875	180 x 110 x 215

Free air delivery as per ISO 1217 Annex C, at 7 - 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.

Cooling circuit

An axial fan supplies the optimum cooling air flow for the generously sized air/oil cooler: safe operation in any environmental condition with minimum noise level.

Reliable transmission

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

Minimum pressure valve

Separator block including minimum pressure/check valve. Double separator filter: long service intervals and high quality compressed air.

Intake regulator

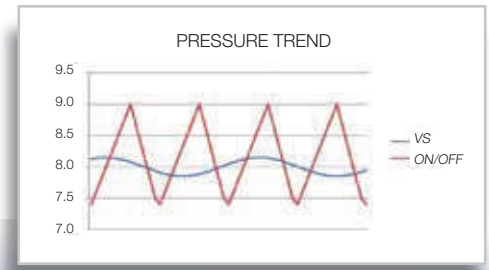
Normally closed electropneumatic system. Adjusts compressor working to guarantee minimum pressure when idle running and maximum saving upon start-up. This ultimately provides an optimal energy cost/air delivery ratio.

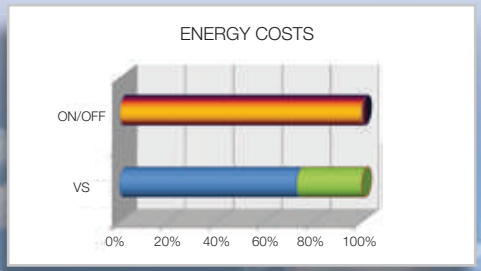
Variable Speed drive = Energy saving

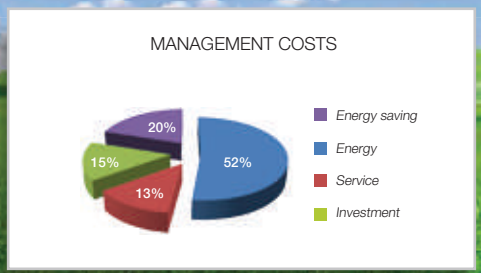
Energy costs and maintenance costs significantly exceed the initial investment in a Company. The NU AIR Variable Speed range, especially in systems with variable air consumption, ensures the reduction of energy costs.
Sirio 22, 38, 56 and 75 models are also available as Variable Speed (VS) option, equipped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

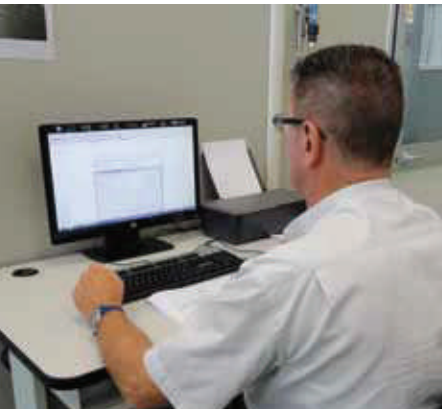
The production process of the rotors goes through 4 different machining steps that make it possible to achieve superior machining accuracy and consistent performance. This level of precision means any male rotor can be perfectly matched with any female counterpart.

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

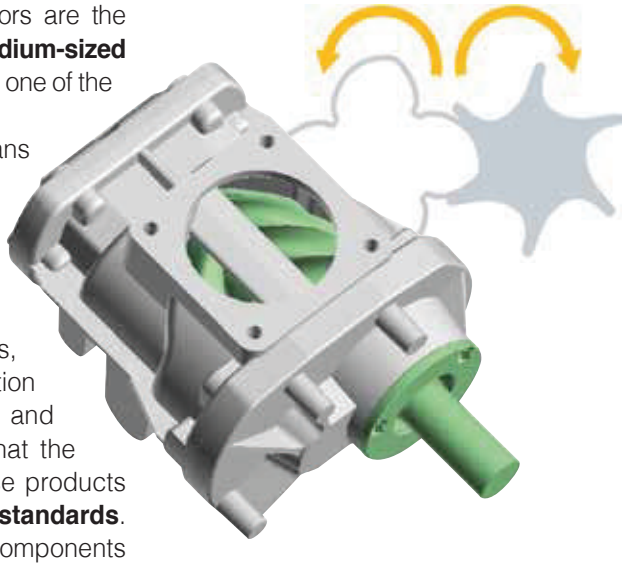
Innovation

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

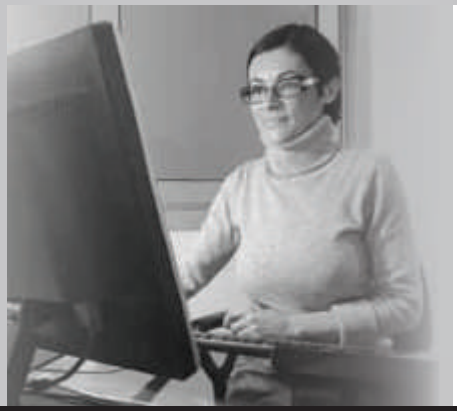
Original spare parts

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