MADE IN ITALY

POWER SYSTEM
AIR COMPRESSORS

SUPER PREMIUM IE4 EFFICIENCY MOTOR

Oil injected rotary screw compressors with direct drive transmission from 18.5 to 90 kW

NOBEL 18.5-90

FIXED SPEED

NOBEL PM 18.5-90

VARIABLE SPEED WITH PERMANENT MAGNET MOTOR

NOBEL 18.5 - 90

With the introduction of the latest PM models to the Nobel series, Power System is once more redefining the standards in respect to efficiency, reliability and energy savings.

The continuous investment in Research & Development has allowed the further improvement to the acclaimed NOBEL series, already a leading-edge product in the industrial market, by introducing Permanent Magnet Motors (with IE4 Efficiency class - Super Premium Efficiency). This is combined with our direct transmission system and optimised controls in the form of the new and highly advanced Login electronic controller. These new and innovative technologies, combined with the employment of our latest generation air-ends, has allowed us to build the most advanced, quiet, reliable and efficient compressor available.

NOBEL COMPRESSORS ARE MORE EFFICIENT THAN EVER!

NOBEL 18.5 - 22
NOBEL 18.5 - 22 - 24 DV PM

NOBEL 30 - 37
NOBEL 30 - 37 - 39 - 45E DV PM

POWER SYSTEM
AIR COMPRESSORS

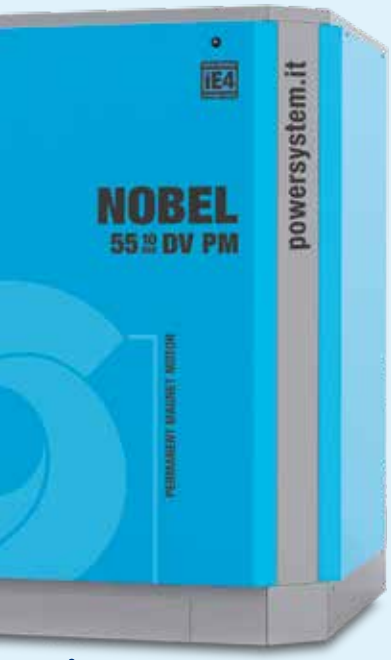
A complete range from 18.5 to 90 kW: 4 sizes, more than 80 possible configurations

kW	MODEL
18.5	Nobel 18.5
22	Nobel 22
30	Nobel 30
37	Nobel 37
45	Nobel 45
55	Nobel 55
75	Nobel 76
90	Nobel 90

FIXED SPEED

kW	MODEL
18.5	Nobel 18.5 DV PM
22	Nobel 22 DV PM
	Nobel 24 DV PM
30	Nobel 30 DV PM
37	Nobel 37 DV PM
	Nobel 39 DV PM
45	Nobel 45E DV PM
55	Nobel 55 DV PM
75	Nobel 76 DV PM
90	Nobel 90 DV PM

VARIABLE SPEED WITH PERMANENT MAGNET MOTOR



NOBEL 45 - 55
NOBEL 55 DV PM

NOBEL 76 - 90
NOBEL 76 - 90 DV PM

POWER SYSTEM
AIR COMPRESSORS

NOBEL with fixed speed and asynchronous IE4 motor

Maximum efficiency and energy saving

Significant energy savings are achieved thanks to the IE4 “Super Premium Efficiency” class motor.
The latest generation air-ends ensure greater compressed air flow rates with reduced energy consumption.
Direct-drive or gear-drive transmission technology.
Air and oil circuit components are optimised for efficiency.
Employment of the latest generation inverters.

New LOGIN controller

All NOBEL models are equipped with the new LOGIN electronic controller with touch-screen display. In addition to full control of all compressor functions, it also stores the data on a specific memory card, so as to manage multiple compressors (up to 8 units, even different types) and for remote control via SMS Device 2.0 that can be matched to the control unit.

Quiet operation

The low speed compressor air end units and the use of radial cooling fans allow NOBEL products to offer amongst the lowest noise values in their category. This means a simplified installation allowing the compressor positioning close to the point-of-use.

Simplified maintenance

All of the routine service components are located in the most convenient and easily accessible position. The panels can be taken away or opened for complete access. Maintenance costs are reduced and efficiency improved thanks to the use of the highest quality components.

Compact design

The NOBEL series has been designed to offer maximum performance and highest reliability, in a compact space saving format.

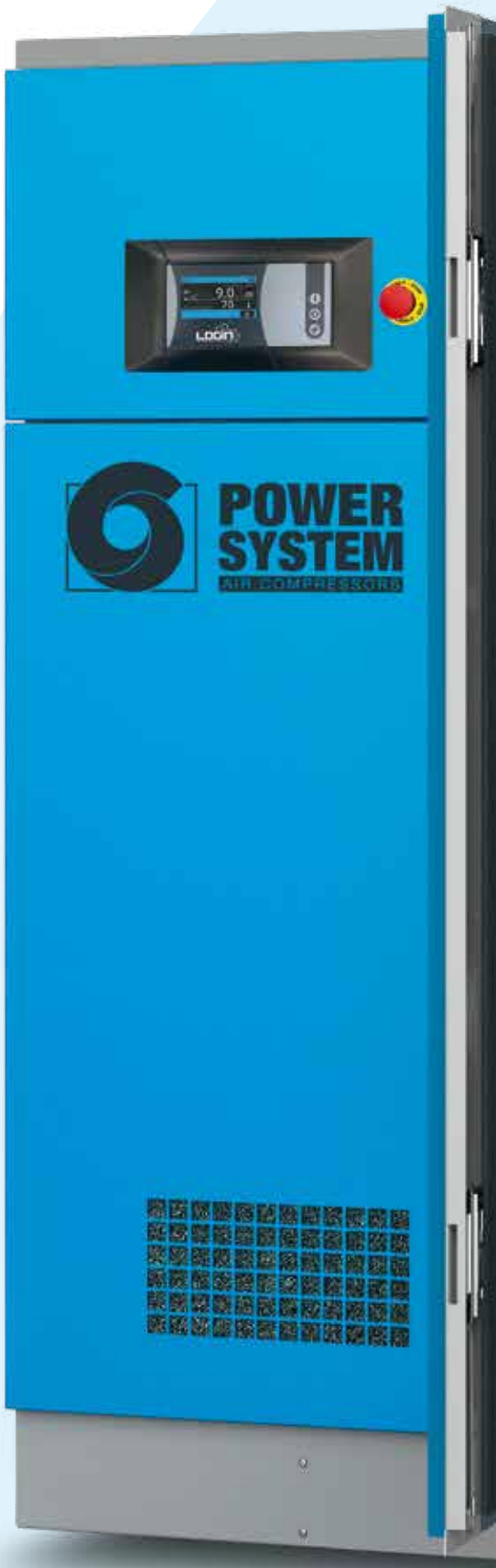
Remote monitoring and preventive maintenance

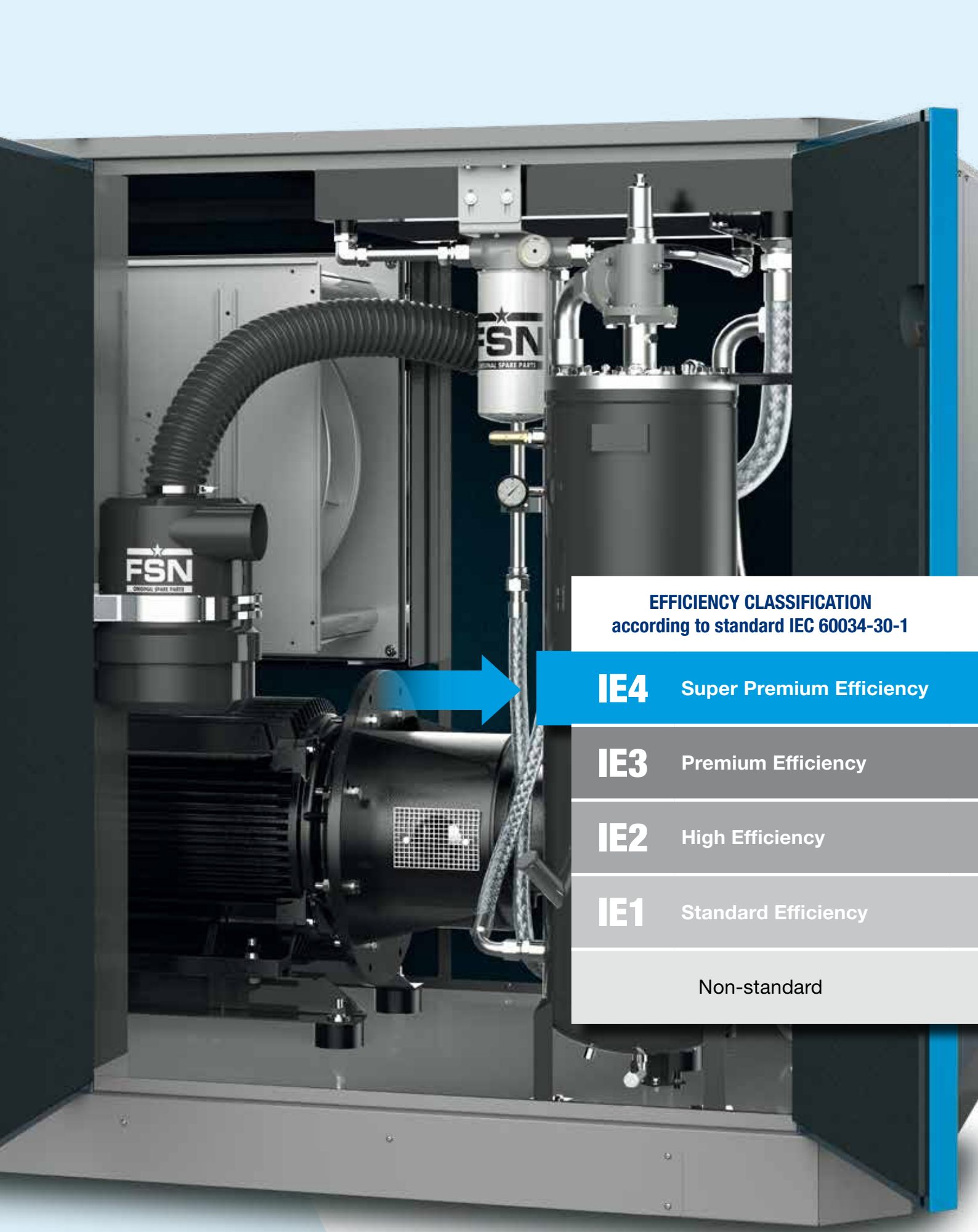
The optional SMS 2.0 system allows the remote monitoring of the compressor and promptly informs the user or the assistance centre of the machine status, reporting any alarms or the need to perform maintenance operations.

Refrigerated dryer

(optional, on versions from 18.5 to 55 kW)

Managed entirely from the Login controller and equipped with integrated inlet and outlet filters, to achieve clean, dry compressed air.





EFFICIENCY CLASSIFICATION
according to standard IEC 60034-30-1

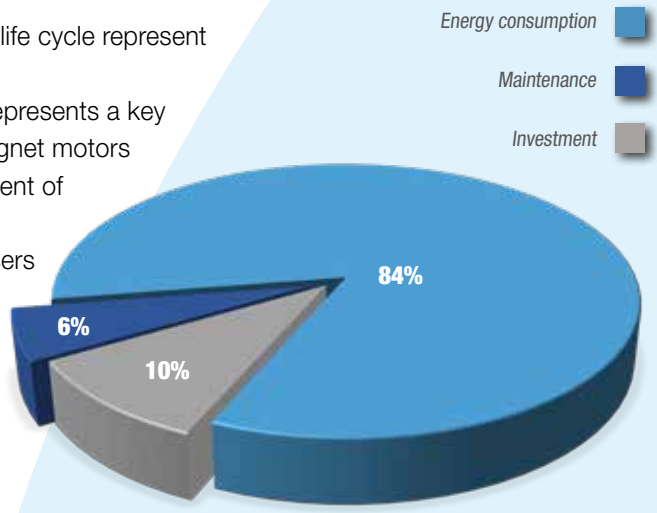
IE4	**Super Premium Efficiency**
IE3	**Premium Efficiency**
IE2	**High Efficiency**
IE1	**Standard Efficiency**
	Non-standard

POWER SYSTEM
AIR COMPRESSORS

NOBEL PM with variable speed and permanent magnet synchronous IE4 motor

Why choose an air compressor with Permanent Magnet motor?

The energy costs linked to an air compressors operation during its life cycle represent more than 80% of the total life cycle costs.
For Power System the improved energy efficiency of its products represents a key objective. This objective is achieved with the use of Permanent Magnet motors in IE4 Super Premium Efficiency category, along with the employment of our own, latest generation compressor air-ends.
The application of these cutting- edge technologies, provides all users an air compressor with superior energy saving characteristics.
The compressors from this new range offer greater flexibility in the delivery of compressed air. The output flow of compressed air may span a capacity range of between 15% to 100% of the maximum flow rate. This makes it possible to greatly reduce waste full unloaded operation, saving significant amounts of energy and minimising component wear, whilst adding greater reliability and longer service life.

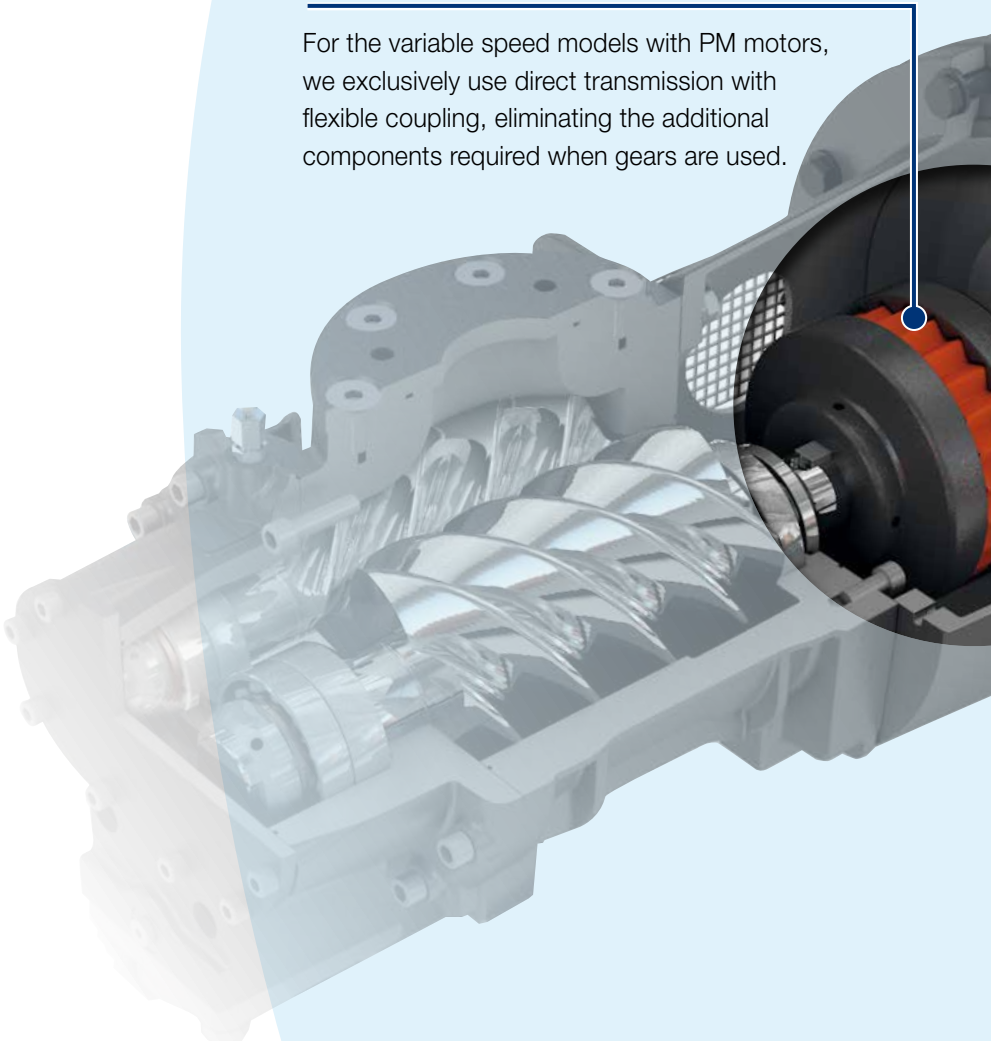


The graph represents the total life cycle costs breakdown of a 37 kW fixed speed compressor, over 5 years of use, considering 4000 working hours per year and an energy cost of about 0.17 €/kWh.

Why choose a NOBEL PM?

- **Permanent Magnet motor with IE4 efficiency.**
- **Latest generation air-ends.**
- **Direct transmission.**
- **Efficient intake regulator.**
- **High performing inverter.**
- **Intuitive touchscreen controller.**
- **Low noise levels.**
- **High quality components.**
- **Minimum maintenance.**

For the variable speed models with PM motors, we exclusively use direct transmission with flexible coupling, eliminating the additional components required when gears are used.

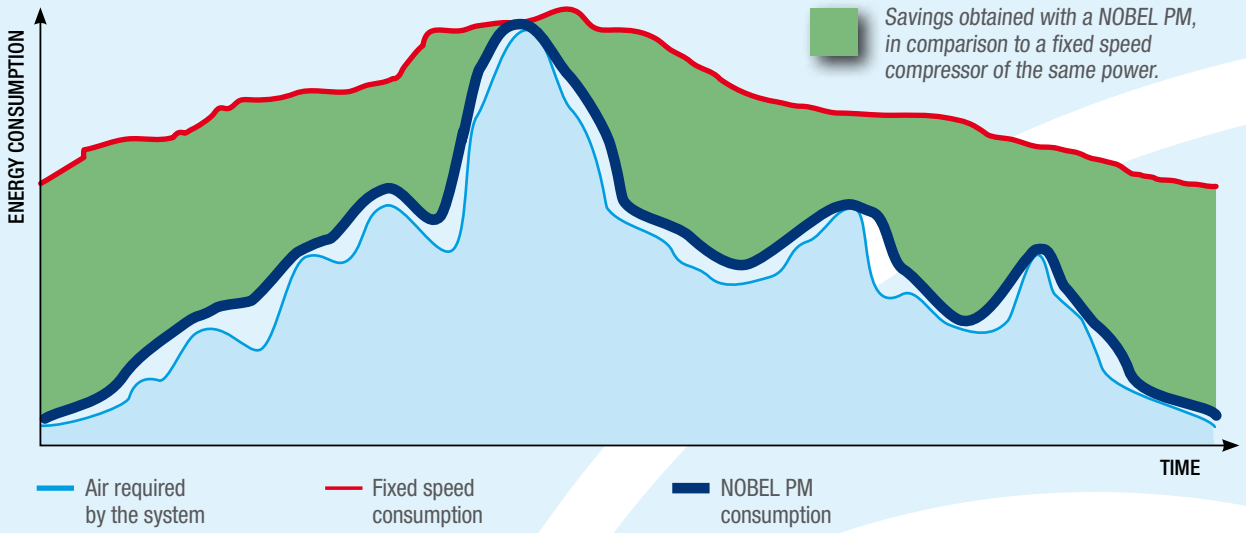


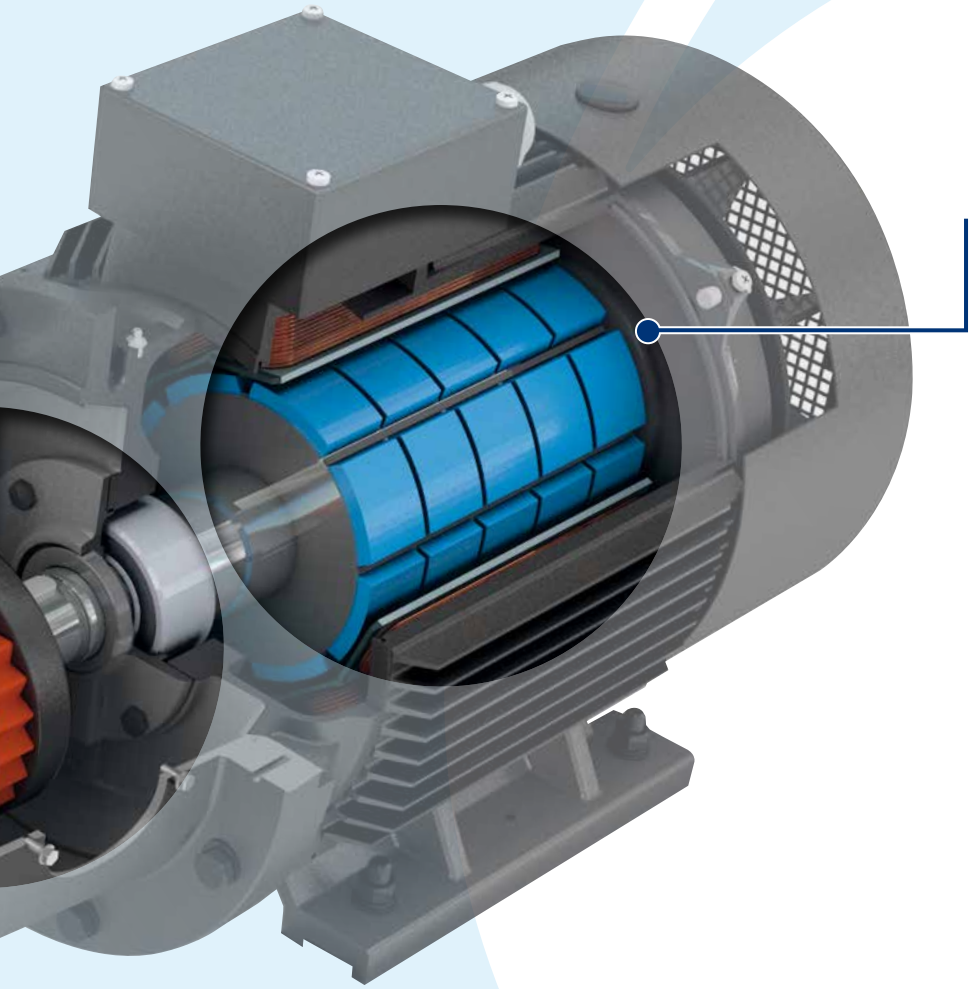
SUPER PREMIUM IE4 EFFICIENCY MOTOR

POWER SYSTEM AIR COMPRESSORS

Improved efficiency in all applications of compressed air.

The advanced and extremely compact Permanent Magnet motors, guarantee the highest performance along with a much wider speed/load range when compared to traditional inverter-controlled asynchronous motors. They offer the greatest possible advantages in terms of energy savings. This applies especially when used at partial capacity and load, which is a characteristic seen frequently in modern applications throughout all industrial sectors.





The advantages offered by the new NOBEL PM range are considerable:

- The compressed air generated is aligned to the system requirements and is achieved by regulating the speed of the electric motor, which can range from 15% to 100% of the maximum speed.
- Excellent and precise pressure control of the pneumatic system, in a range 6 to 13 bar, depending on the chosen compressor model.
- Accurate and optimised cooling of the compressor is obtained through the use of efficient, powerful and quiet radial fans.
- Proven, highly reliable design.
- Attention to details, to maximise quiet operation and reliability.

Quality is our priority

“In-house” air-ends and intake regulators.

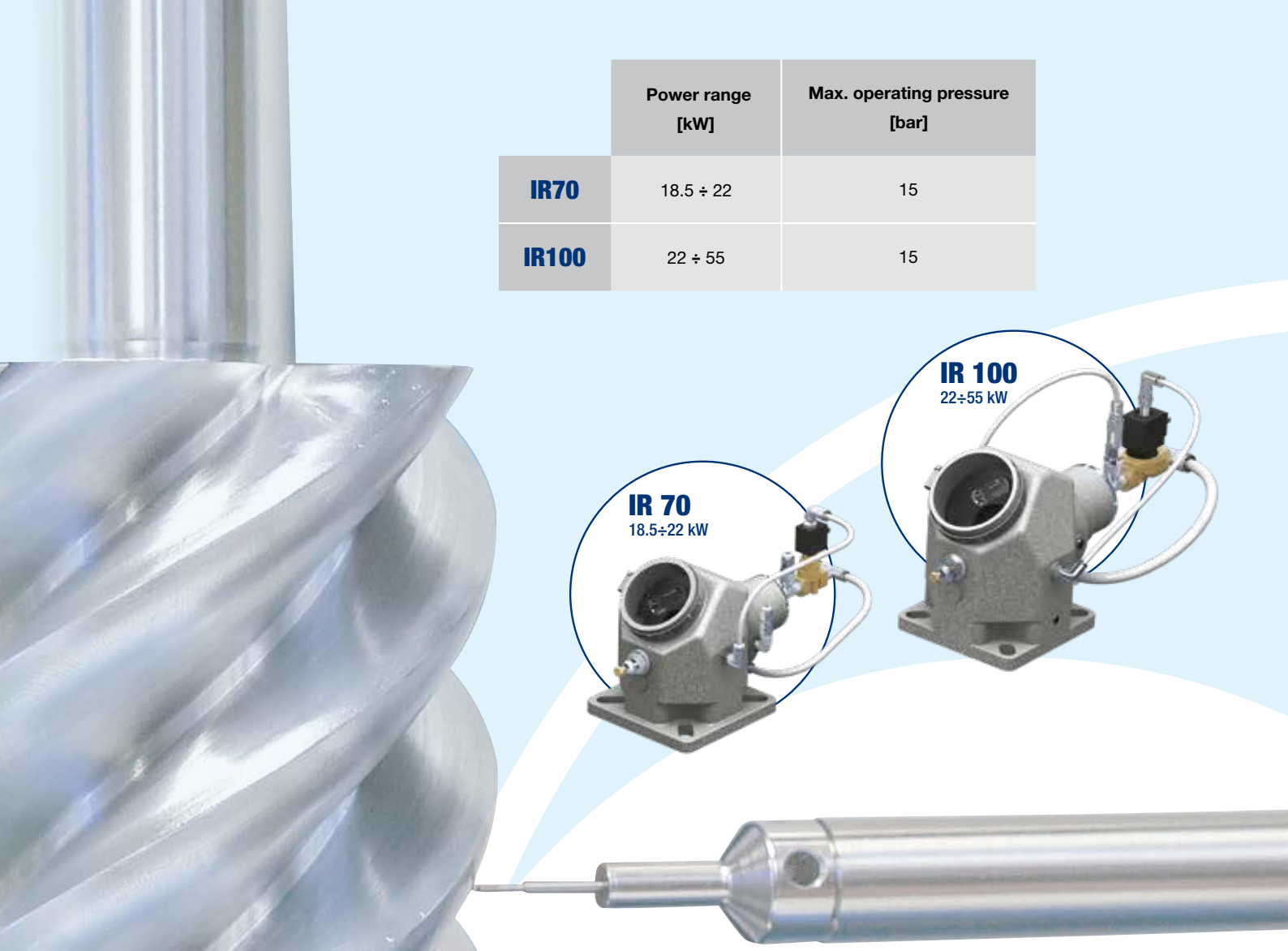
What makes our NOBEL screw compressors unique is the guarantee of a product that is made entirely in Italy: from design to packaging, each stage of production is carefully overseen by our engineers which is our commitment to producing a machine that meets and exceeds the most demanding requirements in terms of efficiency, quality, energy saving, high performance and quiet operation. Each component is carefully selected from the best manufacturers in the world to integrate perfectly with our air-ends, intake regulators and other ‘in house’ technologies.
Each and every compressor, goes through a rigorous testing procedure before a final audit that certifies that the compressor is operating perfectly and in compliance to a check list that contains over fifty elements.
Moreover, since 1996, the Quality System is guaranteed by compliance with standard UNI EN ISO 9001.

	Power range [kW]	Max. operating pressure [bar]
FS100	18.5 ÷ 22	15
FS140	22 ÷ 37	15
FS270	37 ÷ 55	15

We have been producing air-ends for over 30 years.

Power System air-ends feature rotors with an optimised profile offering outstanding performance.
The production process is completely integrated thanks to the use of modern and advanced machine tools along with sophisticated process and quality control measures, that guarantees the highest level of quality.
A highly developed CAD modelling system optimises the set-up of the components.
Each rotor is machined in four manufacturing stages to achieve an extremely precise execution, this is maintained continuously using advanced machining technology.
This level of construction accuracy means that each male rotor can be fitted with any female rotor, such is the precision and consistency of the process.
All of the air-ends are tested twice: individually after assembly and later upon installation to the complete machine.

	Power range [kW]	Max. operating pressure [bar]
IR70	18.5 ÷ 22	15
IR100	22 ÷ 55	15



Italian excellence.

Power System is a leading Italian company that succeeds in combining craftsmanship with the most modern industrial technologies, all executed and controlled by a highly experienced and specialised workforce.

IN-HOUSE MANUFACTURED

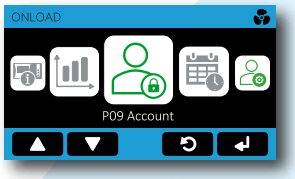
The Made in Italy trademark is the expression of typical Italian quality and creativity, recognised and appreciated around the world, and which defines all of the elements of our industrial production.

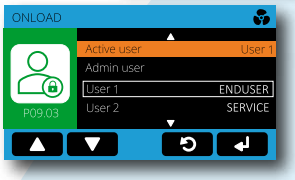
Intake regulators and separator blocks.

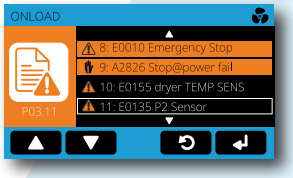
In addition to the assembly of a complete product and air-ends, Power System also produces a vast range of intake regulators, thermostatic valves, separator blocks and accessories for the assembly of rotary compressors.

POWER SYSTEM
AIR COMPRESSORS

Efficiency that is always under control







The new 'Login' controller introduces new software capabilities to strengthen diagnostic functions, thereby guaranteeing excellent performance in all conditions. Login provides additional facilities including remote control and multi-compressor management.

Intelligent control

All of NOBEL's functions are entirely managed by the centralised Login electronic controller, which constantly monitors the compressors operation ensuring efficient and reliable operation of the machine in all conditions with customised functions to suit any application.

Always connected

During an irregular event within the machine, Login reports the presence of such and incident by creating an alert for the user, allowing for prompt operator intervention.
The integrated connectivity with remote monitoring (optional), makes it possible to obtain complete information on the compressor status remotely.

Compressor rotation management

Thanks to the "ISC" system it is possible to simultaneously connect up to 8 different compressors (at fixed and/ or variable speed combinations), with "master-slave" logic. The system can also be used with other compressors not equipped with Login by using the optional modules suitable for specific compressors.

Exclusive design

Italian design, functionality, simple to use and with the latest generation technology all come together with the innovative Login controller. The touch-screen display and the icon-based menu make it extremely intuitive and easy to use.

Memory card slot

Login features a memory card slot which can be used to store compressor data and configurations and to transfer them to another control unit.

Multilanguage management

It is possible to select the local language from any of the 20 pre-installed languages.

Remote control

Allows a complete remote monitoring of the compressor.

Multicolour display

All of the operational parameters are displayed on the large 4.3" colour screen which also displays graphs in real time (pressure, power, energy/time).

Designed for Industry 4.0

POWER SYSTEM
AIR COMPRESSORS

All of the data that you need

SMS 2.0

SMS 2.0 (Service Management System) is the innovative device (optional) to remotely access and perform preventive maintenance checks on any of the screw compressors fitted with a LOGIN controller.

Preventive and targeted maintenance

A LAN connection with Ethernet cable, SMS 2.0 allows e-mails to be sent automatically should an irregular event occur (up to 5 settable e-mail addresses). At the same time, it is possible to monitor the correct operation of the compressor and to check the scheduling for future maintenance interventions and checks.

SMS 2.0 is installed directly on the Login controller, at the rear.

CODE #005560002

Compressor remote control

- online compressor status control (view of temperature and pressure parameters);
- on/off control;
- view of events and alarms;
- view of remaining hours for maintenance;
- graphic view of analogue signals connected to the controller, in real time;
- no additional software is needed.

Thermostatic valve

Controls the oil flow avoiding sudden temperature changes and reduces the formation of condensate inside the lubrication circuit.

LOGIN controller

Simple and intuitive, powerful and flexible programming.
For remote control and multi-compressor management.
Designed for Industry 4.0.

Inverter

In combination with Permanent Magnet Motors, the highest quality inverter ensures the maximum efficiency and energy savings, through the entire speed and load range.

Air filter and oil filter

Easily accessible for easy maintenance.
Single or two stage air filter, depending on the model.
The carefully designed service items allow long operating life, guarantee excellent reliability and reduced maintenance costs.

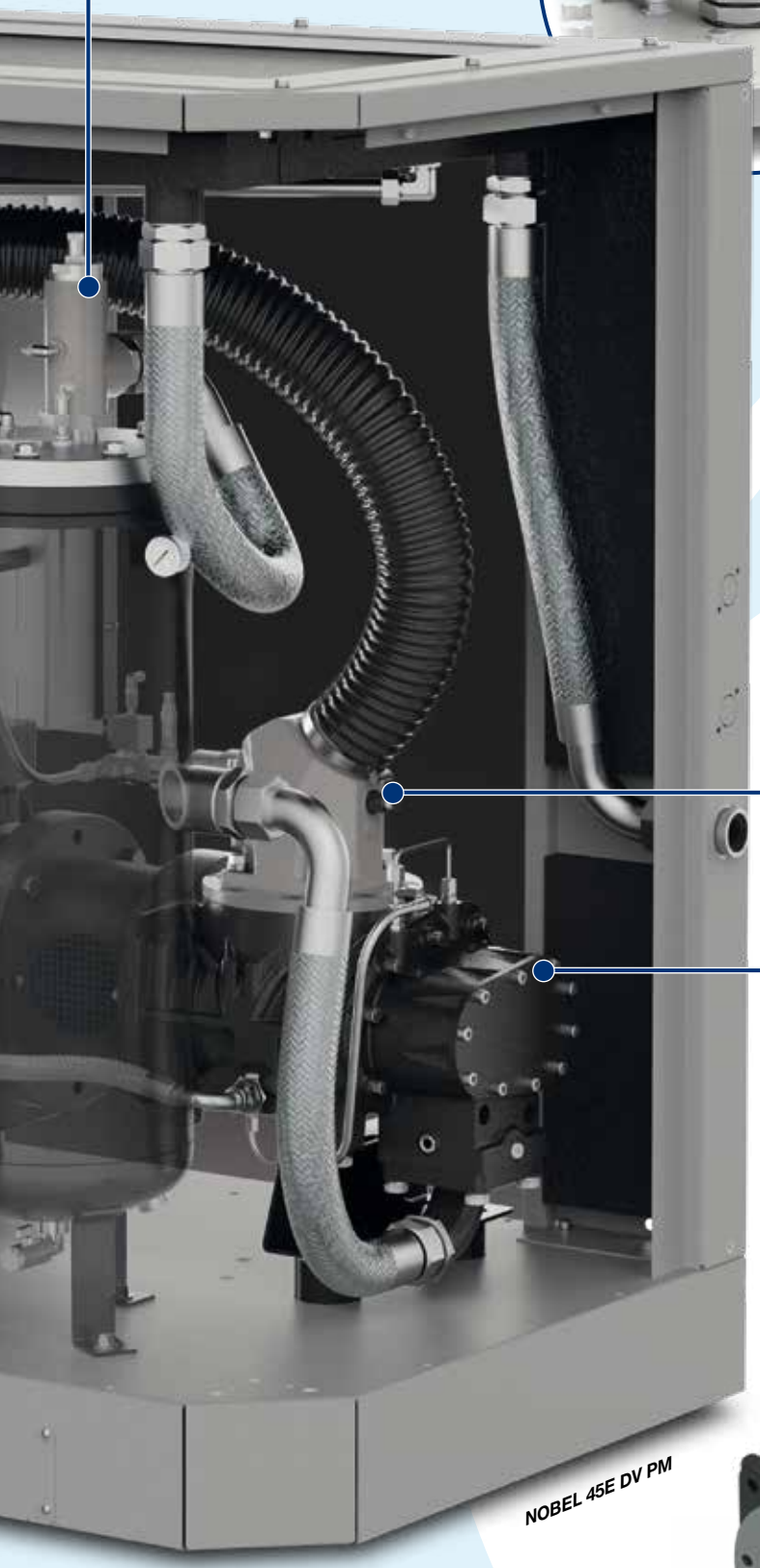
Minimum pressure valve

Guarantees minimum pressure loss and reduces energy consumption.

Improved air quality

NOBEL products up to 55 kW may be equipped with an integrated refrigerated dryer which is fully controlled from the Login controller and also fitted with an inlet filter (3 µm) and a final filter (1 µm) to achieve very high quality compressed air.

Optional 0.01 µm final filters are available separately.



NOBEL 45E DV PM

Intake regulator

This device guarantees highly efficient operation, lower noise and greater reliability.

Direct transmission, with latest generation air-ends

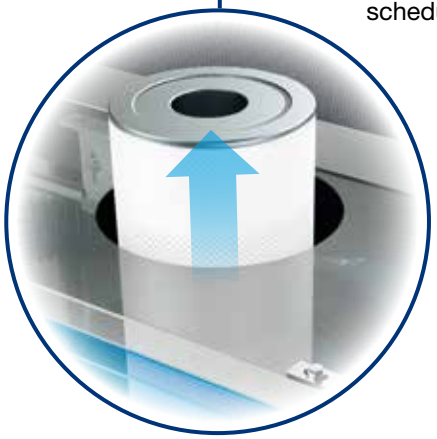
The motor shaft is coaxial to the male rotor of the air-end: this configuration means less wear on components, therefore less need for maintenance and quieter operation in comparison to belt transmission.

This innovative design, in combination with IE4 motors, guarantees superior efficiency and reliability.

POWER SYSTEM AIR COMPRESSORS

Oil separator filter

The oil separator filter, easily accessible for scheduled maintenance operations, is spin-on type on NOBEL models up to 37 kW, whilst it is basket-type on 45 kW to 90 kW versions. On 76-90 models the oil separator filter is more easily removed from the top, thanks to the specific set-up on the compressor roof.



Heat exchangers

Carefully designed to combine highly efficient heat transfer in all conditions and reduced pressure losses.

Remotely controlled grease nipples

Where present, they facilitate routine maintenance operations, maintaining constant lubrication of the electric motor bearings, also with the machine running and without having to access the inside of the compressor.

The careful design of the NOBEL allows for easy access to its internal components.

POWER SYSTEM
AIR COMPRESSORS

The cabinet on NOBEL models can be opened completely on all 4 sides. Models 76 and 90 are also equipped with front and rear hinged panels, for opening up to 180°.

Radial ventilation

This combines excellent cooling of the compressor with very quiet operation.

Very high efficiency motors

IE4 “Super Premium Efficiency” motors, with IP55 protection on all NOBEL models between 18.5 and 90 kW.
The variable speed versions feature IE4 Permanent Magnet synchronous motors.

NOBEL 90 DV PM

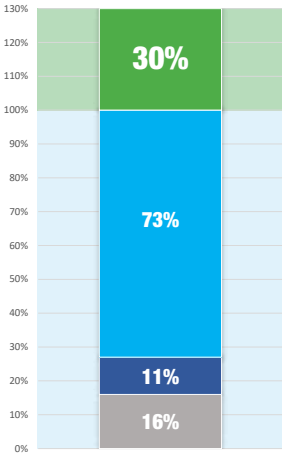
More efficient than ever

The inverter, pre-installed in the compressor's electrical panel, dynamically regulates the speed of the electric motor and therefore the speed of the air end, continuously adjusting the delivered air flow to the system's real time compressed air requirements. This also eliminates current surges thanks to the soft start-up and drastically reduces operating cycles avoiding unnecessary no-load operation, avoiding significant energy wastage and reducing energy costs.

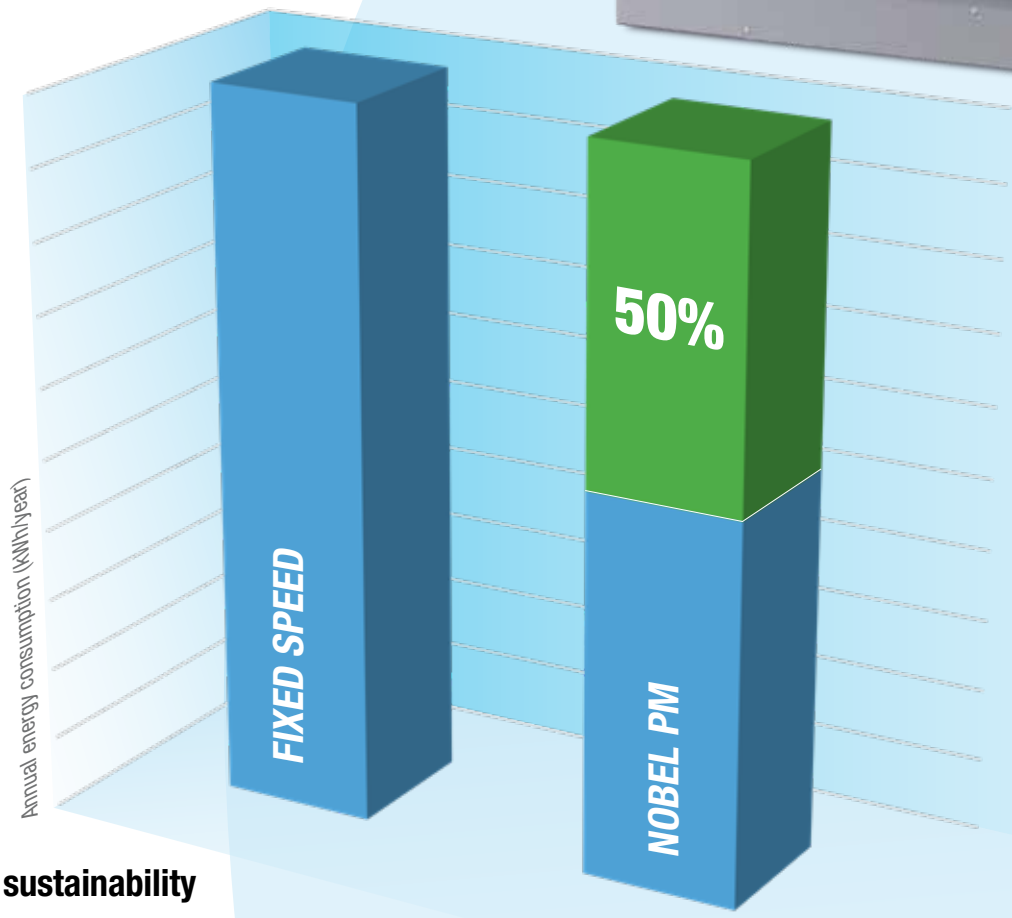
Significant energy savings

When compared to the operation of a fixed speed compressor, a NOBEL PM is able to achieve significant energy savings, up to 50%. This represents a reduction of around 30% to the total life cycle costs during 5 years of use.

LIFE CYCLE COST DISTRIBUTION OVER 5 YEARS



- *Energy saving*
- *Energy consumption*
- *Maintenance*
- *Investment*



The calculation shown in the graphs is based on the energy analysis of a 37 kW NOBEL PM, considering 4000 working hours per year and an energy cost of about 0.17 €/kWh.

Efficiency is synonymous with sustainability

For all companies, environmental sustainability is a most important objective and why a focus on the efficiency of all processes is critical. NOBEL PM compressors provide a significant opportunity in this area. Working and living sustainably means preserving our natural resources as much as possible: choosing a NOBEL or NOBEL PM product, reducing energy consumption and CO_2 emissions therefore, represents an ecological and sensible choice.

POWER SYSTEM
AIR COMPRESSORS

Analyze your company's consumption to minimize energy waste

Compressed air is an essential resource in industrial applications, as well as one of the main sources of energy consumption. Energy costs are constantly increasing, therefore it is a fundamental need to monitor, analyse and reduce the energy consumption of the compressed air system. This not only applies for large companies, but equally for medium and small-sized facilities.

Why run an energy audit?

The energy efficiency of a compressed air system within a production facility, is a large influence on the company's entire production process, in terms of the potential for increased efficiency and reducing costs.
The energy audit is a process, that identifies potential efficiency improvements.
The report that we provide allows our customer to accurately identify the amount of energy being used and wasted, the energy that may be saved, along with suitable alternative equipment and controls to maximise energy efficiency, specific to the exact requirements and operational characteristics of the application.

EA 400 cod. 9062747	ideal for compressors' rooms up to 3 units ▸ 4 analogue inputs: - 3 measuring clamps - 1 pressure sensor ▸ 1 extension for cables (10m long) ▸ 4.3" colour touch screen display
EA 500 cod. 9062748	ideal for compressors' rooms up to 4 units ▸ 5 analogue inputs: - 4 measuring clamps - 1 pressure sensor ▸ 2 extensions for cables (10m long) ▸ 7" colour touch screen display

Our experience at your service

Thanks to the consolidated experience in the industrial sector, Power System can provide companies with a detection and analysis service for professional auditing (EATool).
Furthermore, with "Demo Login" it is possible to simulate compressor operation to provide immediate technical assistance remotely and/or use it as a tool to train maintenance technicians and installers on the full operation of the Login controller.

DEMO LOGIN cod. 8101980	ideal for technical assistance and training ▸ complete simulation of the functions of a compressor controlled from Login ▸ 3 potentiometers (pressure, oil temperature values, dryer temperature) ▸ 7 switches (alarm simulation and remote control)

POWER SYSTEM
AIR COMPRESSORS

Technical data

NOBEL 18.5-37 kW
FIXED SPEED

	Code	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
		kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.		dB(A)	Ø	kg	L x W x H (mm)	kg	L x W x H (mm)
18.5 kW															
NOBEL 18.5-08	V60GL92PWSA45	18.5	25	3000	3.00	106	7.5	109	FS100G	62	1" 1/4	598	1370x880x1360	668	1530x1000x1590
NOBEL 18.5-10	V60GM92PWSA45	18.5	25	2600	2.60	92	10	145	FS100	62	1" 1/4	587	1370x880x1360	657	1530x1000x1590
NOBEL 18.5-08 DF	V60GL92PWSB45	18.5	25	3000	3.00	106	7.5	109	FS100G	62	1" 1/4	658	1720x880x1360	748	1860x1000x1640
NOBEL 18.5-10 DF	V60GM92PWSB45	18.5	25	2600	2.60	92	10	145	FS100	62	1" 1/4	647	1720x880x1360	737	1860x1000x1640
22 kW															
NOBEL 22-08	V60GP92PWSA45	22	30	3600	3.60	127	7.5	109	FS140	60	1" 1/4	747	1370x880x1360	817	1530x1000x1590
NOBEL 22-10	V60GQ92PWSA45	22	30	3100	3.10	109	10	145	FS100G	62	1" 1/4	633	1370x880x1360	703	1530x1000x1590
NOBEL 22-13	V60GR92PWSA45	22	30	2600	2.60	92	13	189	FS100	62	1" 1/4	622	1370x880x1360	692	1530x1000x1590
NOBEL 22-08 DF	V60GP92PWSB45	22	30	3600	3.60	127	7.5	109	FS140	60	1" 1/4	817	1720x880x1360	891	1860x1000x1640
NOBEL 22-10 DF	V60GQ92PWSB45	22	30	3100	3.10	109	10	145	FS100G	62	1" 1/4	703	1720x880x1360	777	1860x1000x1640
NOBEL 22-13 DF	V60GR92PWSB45	22	30	2600	2.60	92	13	189	FS100	62	1" 1/4	692	1720x880x1360	766	1860x1000x1640
30 kW															
NOBEL 30-08	V60CM92PWSA45	30	40	4850	4.85	171	7.5	109	FS140G	68	1" 1/2	920	1602x1030x1560	1005	1800x1200x1810
NOBEL 30-10	V60CP92PWSA45	30	40	4300	4.30	152	10	145	FS140G	68	1" 1/2	920	1602x1030x1560	1005	1800x1200x1810
NOBEL 30-08 DF	V60CM92PWSB45	30	40	4850	4.85	171	7.5	109	FS140G	68	1" 1/2	1008	1960x1030x1560	1100	2130x1200x1810
NOBEL 30-10 DF	V60CP92PWSB45	30	40	4300	4.30	152	10	145	FS140G	68	1" 1/2	1008	1960x1030x1560	1100	2130x1200x1810
37 kW															
NOBEL 37-08	V60CT92PWSA45	37	50	6600	6.60	233	7.5	109	FS270	70	1" 1/2	990	1602x1030x1560	1075	1800x1200x1810
NOBEL 37-10	V60CU92PWSA45	37	50	5200	5.20	184	10	145	FS140G	70	1" 1/2	950	1602x1030x1560	1035	1800x1200x1810
NOBEL 37-13	V60CV92PWSA45	37	50	4650	4.65	164	13	189	FS140G	68	1" 1/2	950	1602x1030x1560	1035	1800x1200x1810
NOBEL 37-08 DF	V60CT92PWSB45	37	50	6600	6.60	233	7.5	109	FS270	70	1" 1/2	1078	1960x1030x1560	1170	2130x1200x1810
NOBEL 37-10 DF	V60CU92PWSB45	37	50	5200	5.20	184	10	145	FS140G	70	1" 1/2	1038	1960x1030x1560	1130	2130x1200x1810
NOBEL 37-13 DF	V60CV92PWSB45	37	50	4650	4.65	164	13	189	FS140G	68	1" 1/2	1038	1960x1030x1560	1130	2130x1200x1810

***DF** = fixed speed model with refrigerated dryer with 3 micron inlet filter, 1 micron outlet filter and automatic condensate drain.*

Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
Air flow was measured in the following operating pressure values: 7.5 bar fo"08" models - 10 bar for "10" models - 13 bar for "13" models.
The data and results were measured in accordance with standard ISO 1217. The sound level was measured in accordance with standard ISO 3744.

POWER SYSTEM
AIR COMPRESSORS

Technical data

NOBEL 45-90 kW
FIXED SPEED

	Code	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
		kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.		dB(A)	Ø	kg	L x W x H (mm)	kg	L x W x H (mm)
45 kW															
NOBEL 45-08	V60GA92PWSA45	45	60	8200	8.20	290	7.5	109	FS270G	72	2"	1253	1730x1270x1700	1364	1920x1420x1960
NOBEL 45-10	V60GB92PWSA45	45	60	6700	6.70	237	10	145	FS270	72	2"	1151	1730x1270x1700	1262	1920x1420x1960
NOBEL 45-08 DF	V60GA92PWSB45	45	60	8200	8.20	290	7.5	109	FS270G	72	2"	1379	2260x1270x1700	1511	2420x1420x1960
NOBEL 45-10 DF	V60GB92PWSB45	45	60	6700	6.70	237	10	145	FS270	72	2"	1277	2260x1270x1700	1409	2420x1420x1960
55 kW															
NOBEL 55-08	V60GD92PWSA45	55	75	10100	10.10	357	7.5	109	FS270G	72	2"	1253	1730x1270x1700	1364	1920x1420x1960
NOBEL 55-10	V60GE92PWSA45	55	75	8300	8.30	293	10	145	FS270G	72	2"	1253	1730x1270x1700	1364	1920x1420x1960
NOBEL 55-13	V60GF92PWSA45	55	75	6500	6.50	230	13	189	FS270	72	2"	1256	1730x1270x1700	1367	1920x1420x1960
NOBEL 55-08 DF	V60GD92PWSB45	55	75	10100	10.10	357	7.5	109	FS270G	72	2"	1379	2260x1270x1700	1511	2420x1420x1960
NOBEL 55-10 DF	V60GE92PWSB45	55	75	8300	8.30	293	10	145	FS270G	72	2"	1379	2260x1270x1700	1511	2420x1420x1960
NOBEL 55-13 DF	V60GF92PWSB45	55	75	6500	6.50	230	13	189	FS270	72	2"	1382	2260x1270x1700	1514	2420x1420x1960
75 kW															
NOBEL 76-08	V60MJ92PWSA45	75	100	13500	13.50	477	7.5	109	FS300	67	2"	2880	2330x1460x1980	3078	2560x1660x2230
NOBEL 76-10	V60MB92PWSA45	75	100	11700	11.70	413	10	145	FS300	67	2"	2880	2330x1460x1980	3078	2560x1660x2230
NOBEL 76-13	V60MD92PWSA45	75	100	9700	9.70	343	13	189	FS300	67	2"	2880	2330x1460x1980	3078	2560x1660x2230
90 kW															
NOBEL 90-08	V60MR92PWSA45	90	125	15900	15.90	562	7.5	109	FS300	67	2"	2927	2330x1460x1980	3125	2560x1660x2230
NOBEL 90-10	V60MF92PWSA45	90	125	13400	13.40	473	10	145	FS300	67	2"	2927	2330x1460x1980	3125	2560x1660x2230
NOBEL 90-13	V60MS92PWSA45	90	125	10400	10.40	367	13	189	FS300	67	2"	2927	2330x1460x1980	3125	2560x1660x2230

***DF** = fixed speed model with refrigerated dryer with 3 micron inlet filter, 1 micron outlet filter and automatic condensate drain.*

Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
Air flow was measured in the following operating pressure values: 7.5 bar fo"08" models - 10 bar for "10" models - 13 bar for "13" models.
The data and results were measured in accordance with standard ISO 1217. The sound level was measured in accordance with standard ISO 3744.

POWER SYSTEM
AIR COMPRESSORS

Technical data

NOBEL DV PM 18.5-30 kW
VARIABLE SPEED, PERMANENT MAGNET

	Code	Power		Air outflow rate (min. - max.)			Pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
		kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.		dB(A)	Ø	kg	L x W x H (mm)	kg	L x W x H (mm)
18.5 kW															
NOBEL 18.5-08 DV PM	V60GL97PWSG45	18.5	25	560-3500	0.56-3.50	20-124	7	102	FS100	63	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 18.5-10 DV PM	V60GM97PWSG45	18.5	25	572-3050	0.57-3.05	20-108	9.5	138	FS100	63	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 18.5-13 DV PM	V60GN97PWSG45	18.5	25	533-2500	0.53-2.50	19-88	12.5	181	FS100	63	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 18.5-08 DVF PM	V60GL97PWSH45	18.5	25	560-3500	0.56-3.50	20-124	7	102	FS100	63	1"1/4	595	1720x880x1360	685	1860x1000x1640
NOBEL 18.5-10 DVF PM	V60GM97PWSH45	18.5	25	572-3050	0.57-3.05	20-108	9.5	138	FS100	63	1"1/4	595	1720x880x1360	685	1860x1000x1640
NOBEL 18.5-13 DVF PM	V60GN97PWSH45	18.5	25	533-2500	0.53-2.50	19-88	12.5	181	FS100	63	1"1/4	595	1370x880x1360	685	1860x1000x1640
22 kW															
NOBEL 22-08 DV PM	V60GP97PWSA45	22	30	560-3800	0.56-3.80	20-134	7	102	FS100	61	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 22-10 DV PM	V60GQ97PWSA45	22	30	572-3300	0.57-3.30	20-117	9.5	138	FS100	63	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 22-13 DV PM	V60GR97PWSA45	22	30	533-2700	0.53-2.70	19-95	12.5	181	FS100	63	1"1/4	535	1370x880x1360	605	1530x1000x1590
NOBEL 22-08 DVF PM	V60GP97PWSB45	22	30	560-3800	0.56-3.80	20-134	7	102	FS100	61	1"1/4	595	1720x880x1360	685	1860x1000x1640
NOBEL 22-10 DVF PM	V60GQ97PWSB45	22	30	572-3300	0.57-3.30	20-117	9.5	138	FS100	63	1"1/4	595	1720x880x1360	685	1860x1000x1640
NOBEL 22-13 DVF PM	V60GR97PWSB45	22	30	533-2700	0.53-2.70	19-95	12.5	181	FS100	63	1"1/4	595	1720x880x1360	685	1860x1000x1640
NOBEL 24-08 DV PM	V60KI97PWSA45	22	30	810-4500	0.81-4.50	29-159	7	102	FS140	61	1"1/4	650	1370x880x1360	720	1530x1000x1590
NOBEL 24-10 DV PM	V60KJ97PWSA45	22	30	790-3750	0.79-3.75	28-132	9.5	138	FS140	63	1"1/4	650	1370x880x1360	720	1530x1000x1590
NOBEL 24-13 DV PM	V60KK97PWSA45	22	30	775-3300	0.78-3.30	27-117	12.5	181	FS140	63	1"1/4	650	1370x880x1360	720	1530x1000x1590
NOBEL 24-08 DVF PM	V60KI97PWSB45	22	30	810-4500	0.81-4.50	29-159	7	102	FS140	61	1"1/4	710	1720x880x1360	785	1860x1000x1640
NOBEL 24-10 DVF PM	V60KJ97PWSB45	22	30	790-3750	0.79-3.75	28-132	9.5	138	FS140	63	1"1/4	710	1720x880x1360	785	1860x1000x1640
NOBEL 24-13 DVF PM	V60KK97PWSB45	22	30	775-3300	0.78-3.30	27-117	12.5	181	FS140	63	1"1/4	710	1720x880x1360	785	1860x1000x1640
30 kW															
NOBEL 30-08 DV PM	V60CM97PWSG45	30	40	845-5500	0.85-5.50	30-194	7	102	FS140	68	1"1/2	868	1620x1030x1560	943	1800x1200x1810
NOBEL 30-10 DV PM	V60CP97PWSG45	30	40	850-5050	0.85-5.05	30-178	9.5	138	FS140	68	1"1/2	868	1620x1030x1560	943	1800x1200x1810
NOBEL 30-13 DV PM	V60CQ97PWSG45	30	40	900-4500	0.90-4.50	32-159	12.5	181	FS140	68	1"1/2	868	1620x1030x1560	943	1800x1200x1810
NOBEL 30-08 DVF PM	V60CM97PWSH45	30	40	1350-5500	1.35-5.50	48-194	7	102	FS140	68	1"1/2	948	1960x1030x1560	1038	2130x1200x1810
NOBEL 30-10 DVF PM	V60CP97PWSH45	30	40	850-5050	0.85-5.05	30-178	9.5	138	FS140	68	1"1/2	948	1960x1030x1560	1038	2130x1200x1810
NOBEL 30-13 DVF PM	V60CQ97PWSH45	30	40	900-4500	0.90-4.50	32-159	12.5	181	FS140	68	1"1/2	948	1960x1030x1560	1038	2130x1200x1810

DV PM *= variable speed, with permanent magnet motors.*
DVF PM *= variable speed, with permanent magnet motor and refrigerated dryer with 3 micron input filter, 1 micron output filter and automatic condensate drain.*

Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
Air flow was measured in the following operating pressure values:
7 bar for "08" models - 9.5 bar for "10" models - 12.5 bar for "13" models.
The data and results were measured in accordance with standard ISO 1217.
The sound level was measured in accordance with standard ISO 3744.

POWER SYSTEM
AIR COMPRESSORS

Technical data

NOBEL DV PM 37-90 kW
VARIABLE SPEED, PERMANENT MAGNET

	Code	Power		Air outflow rate (min. - max.)			Pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
		kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.		dB(A)	Ø	kg	L x W x H (mm)	kg	L x W x H (mm)
37 kW *															
NOBEL 37-08 DV PM	V60CT97PWSA45	37	50	845-6900	0.85-6.90	30-244	7	102	FS270	70	1"1/2	923	1602x1030x1560	998	1800x1200x1810
NOBEL 37-10 DV PM	V60CU97PWSA45	37	50	850-5500	0.85-5.50	30-194	9.5	138	FS140	70	1"1/2	868	1602x1030x1560	943	1800x1200x1810
NOBEL 37-13 DV PM	V60CV97PWSA45	37	50	900-5100	0.90-5.10	32-180	12.5	181	FS140	68	1"1/2	868	1602x1030x1560	943	1800x1200x1810
NOBEL 37-08 DVF PM	V60CT97PWSB45	37	50	1350-6900	1.35-6.90	48-244	7	102	FS270	70	1"1/2	1003	1960x1030x1560	1078	2130x1200x1810
NOBEL 37-10 DVF PM	V60CU97PWSB45	37	50	850-5500	0.85-5.50	30-194	9.5	138	FS140	70	1"1/2	948	1960x1030x1560	1023	2130x1200x1810
NOBEL 37-13 DVF PM	V60CV97PWSB45	37	50	900-5100	0.90-5.10	32-180	12.5	181	FS140	68	1"1/2	948	1960x1030x1560	1023	2130x1200x1810
NOBEL 39-08 DV PM	V60LA97PWSA45	37	50	1570-7255	1.57-7.26	55-256	7	102	FS270	70	1"1/2	928	1602x1030x1560	1003	1800x1200x1810
NOBEL 39-10 DV PM	V60LB97PWSA45	37	50	1570-6335	1.57-6.34	55-224	9.5	138	FS270	70	1"1/2	928	1602x1030x1560	1003	1800x1200x1810
NOBEL 39-08 DVF PM	V60LA97PWSB45	37	50	1570-7255	1.57-7.26	55-256	7	102	FS270	70	1"1/2	1054	2135x1020x1560	1166	2280x1200x1810
NOBEL 39-10 DVF PM	V60LB97PWSB45	37	50	1570-6335	1.57-6.34	55-224	9.5	138	FS270	70	1"1/2	1054	2135x1020x1560	1166	2280x1200x1810
45 kW *															
NOBEL 45E-08 DV PM	V60KM97PWSA45	45	60	1570-8800	1.57-8.80	55-311	7	102	FS270	72	1"1/2	928	1602x1030x1560	1003	1800x1200x1810
NOBEL 45E-10 DV PM	V60KN97PWSA45	45	60	1570-7350	1.57-7.35	55-260	9.5	138	FS270	72	1"1/2	928	1602x1030x1560	1003	1800x1200x1810
NOBEL 45E-08 DVF PM	V60KM97PWSB45	45	60	1570-8800	1.57-8.80	55-311	7	102	FS270	72	1"1/2	1054	2135x1020x1560	1166	2280x1200x1810
NOBEL 45E-10 DVF PM	V60KN97PWSB45	45	60	1570-7350	1.57-7.35	55-260	9.5	138	FS270	72	1"1/2	1054	2135x1020x1560	1166	2280x1200x1810
55 kW															
NOBEL 55-08 DV PM	V60GD97PWSA45	55	75	1800-10100	1.80-10.10	64-357	7	102	FS270	72	2"	1110	1730x1270x1700	1225	1920x1420x1960
NOBEL 55-10 DV PM	V60GE97PWSA45	55	75	1790-8400	1.79-8.40	63-297	9.5	138	FS270	72	2"	1110	1730x1270x1700	1225	1920x1420x1960
NOBEL 55-13 DV PM	V60GF97PWSA45	55	75	1750-7400	1.75-7.40	62-261	12.5	181	FS270	72	2"	1110	1730x1270x1700	1225	1920x1420x1960
NOBEL 55-08 DVF PM	V60GD97PWSB45	55	75	1800-10100	1.80-10.10	64-357	7	102	FS270	72	2"	1236	2260x1270x1700	1351	2420x1420x1960
NOBEL 55-10 DVF PM	V60GE97PWSB45	55	75	1790-8400	1.79-8.40	63-297	9.5	138	FS270	72	2"	1236	2260x1270x1700	1351	2420x1420x1960
NOBEL 55-13 DVF PM	V60GF97PWSB45	55	75	1750-7400	1.75-7.40	62-261	12.5	181	FS270	72	2"	1236	2260x1270x1700	1351	2420x1420x1960
75 kW															
NOBEL 76-08 DV PM	V60MJ97PWSG45	75	100	2770-13700	2.77-13.70	98-484	7	102	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230
NOBEL 76-10 DV PM	V60MB97PWSG45	75	100	2490-12430	2.49-12.43	88-439	9.5	138	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230
NOBEL 76-13 DV PM	V60MD97PWSG45	75	100	2410-11050	2.41-11.05	85-390	12.5	181	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230
90 kW															
NOBEL 90-08 DV PM	V60MR97PWSA45	90	125	2770-15900	2.77-15.90	98-562	7	102	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230
NOBEL 90-10 DV PM	V60MF97PWSA45	90	125	2490-13400	2.49-13.40	88-473	9.5	138	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230
NOBEL 90-13 DV PM	V60MS97PWSA45	90	125	2410-12100	2.41-12.10	85-427	12.5	181	FS300	67	2"	2815	2330x1460x1980	3015	2560x1660x2230

DV PM *= variable speed, with permanent magnet motors.*
DVF PM *= variable speed, with permanent magnet motor and refrigerated dryer with 3 micron input filter, 1 micron output filter and automatic condensate drain.*

Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
Air flow was measured in the following operating pressure values:
7 bar for "08" models - 9.5 bar for "10" models - 12.5 bar for "13" models.
The data and results were measured in accordance with standard ISO 1217.
The sound level was measured in accordance with standard ISO 3744.

** NOBEL 39 and NOBEL 45E at 13 bar available on demand.*

POWER SYSTEM
AIR COMPRESSORS

Extend the life and efficiency of your compressor

In addition to offering the highest quality and technologically advanced products, Power System focuses its attention on customer care and full technical and product support, identifying our customer's needs and offering the most suitable solutions designed to work for them. This is thanks to a professional team, able to offer assistance over the phone/email, technical on-site consultancy, personalised quotations, maintenance programs, training programmes, etc.

The importance of original spare parts...

FSN is the brand of the original spare parts and after sales activities for all Power System compressors. FSN 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.
Our "Hot-Line" service guarantees the delivery of urgent spare parts within twenty four hours from the order.

Long Life Kit for the scheduled maintenance of screw compressors

To make maintenance planning simple and in accordance with the recommendations, Power System has developed its "LONG LIFE SERVICE KITS", specifically created for all Power System screw compressor models.
Using Long Life Kits ensures an extended service life, increased safety whilst ensuring maximum performance from the compressor.

Investment guaranteed up to 5 years! with the TRUST warranty extension

Power System believes so strongly in the quality and reliability of its compressors that we guarantee them for up to FIVE years! By choosing Trust it is possible to extend the standard warranty period by 3 or 5 years, through a complete preventive maintenance program.
There are many benefits: the customer can thereby avail of the qualified assistance of authorised technicians in complete safety, reducing the uncertainty of maintenance costs and foreseeing any downtime. Also, the use of original spare parts guaranteed by the FSN trademark will ensure that the compressor operates with maximum efficiency and for a longer service life.
The "Trust" warranty can be easily extended online through EasyConnect, the new Power System service portal specially created to simplify the customers experience by providing them with quick, clear responses about product availability, order tracking and shipping times.

POWER SYSTEM
AIR COMPRESSORS

...and specific lubricants

Mineral oil RotarECOFLUID 46 cSt

#600000020	1 x 3.8-litre can (3.3 kg)
#600000021	1 x 20-litre can (17.36 kg)
#600000022	1 x 200-litre drum (174 kg)

Formulated with high quality selected mineral oil, this lubricant offers optimal control of oxidation and residue deposits as well as an excellent level of thermal stability and oxidation to ensure the longevity of equipment and continued high performance.

Synthetic oil RotEnergyPlus 46 cSt

#600000018A	1 x 3.8-litre can (3.25 kg)
#600000007A	1 x 19-litre can (16 kg)
#600000012A	1 x 208-litre drum (181 kg)

Ensures quick water separation with reduced friction and energy consumption, provides long maintenance intervals and ensures excellent lubrication of the bearings while offering an excellent protection throughout.

Synthetic oil RotEnergyFood 46 cSt

#600000019A	1 x 3.9-litre can (3.25 kg)
#600000016A	1 x 19-litre can (18.5 kg)
#600000017A	1 x 208-litre drum (175 kg)

A high quality lubricant for rotary compressors, suitable for use in the food industry, where specific quality standards are required.

Our FSN mineral or synthetic based lubricants, are specifically designed for use on our screw compressors, supplied by world leading manufacturers.
They are available in cans or drums in various sizes.

We recommend replacing the oil according to the interval reported in the handbook / maintenance manual of the compressor or once a year if sooner.
We recommend using our original RotarECOFLUID mineral oils, or RotEnergyPlus and RotEnergyFood synthetic oils (OILS NOT INCLUDED IN LONG LIFE KITS).

FSN
ORIGINAL SPARE PARTS

You can download the Long Life Kit catalogues from www.powersystem.it and see the exploded diagrams and spare parts list online. These are continuously updated for each compressor model.

POWER SYSTEM
AIR COMPRESSORS

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Since 1992 the POWER SYSTEM brand has been a worldwide leader in designing, developing, producing and distributing rotary screw compressors and piston compressors for professional and industrial use, with a power range between 1.5 and 315 kW, suitable for every technological sector, from large scale industry to small businesses.
From the very beginning Power System's mission has been aimed at the constant search for advanced solutions to compress air with the lowest possible energy consumption.

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