

MADE IN ITALY



Rotary screw compressors
with belt transmission

DARWIN

2.2-75 kW



NEW
2025 RANGE

FNA Group

Over 75 years of compressed air.

FNA is a Multinational Group with over 75 years of experience in the compressed air sector, founded from the merger of three great Italian compressor traditions, which has developed an industrial synergy capable of competing on the world market without fear of comparison. Thanks to the consolidated experience and leadership of a family that has been operating exclusively in the compressed air sector for two generations, since 1948, FNA is one of the leading manufacturers of air compressors for industrial, professional and consumer use.

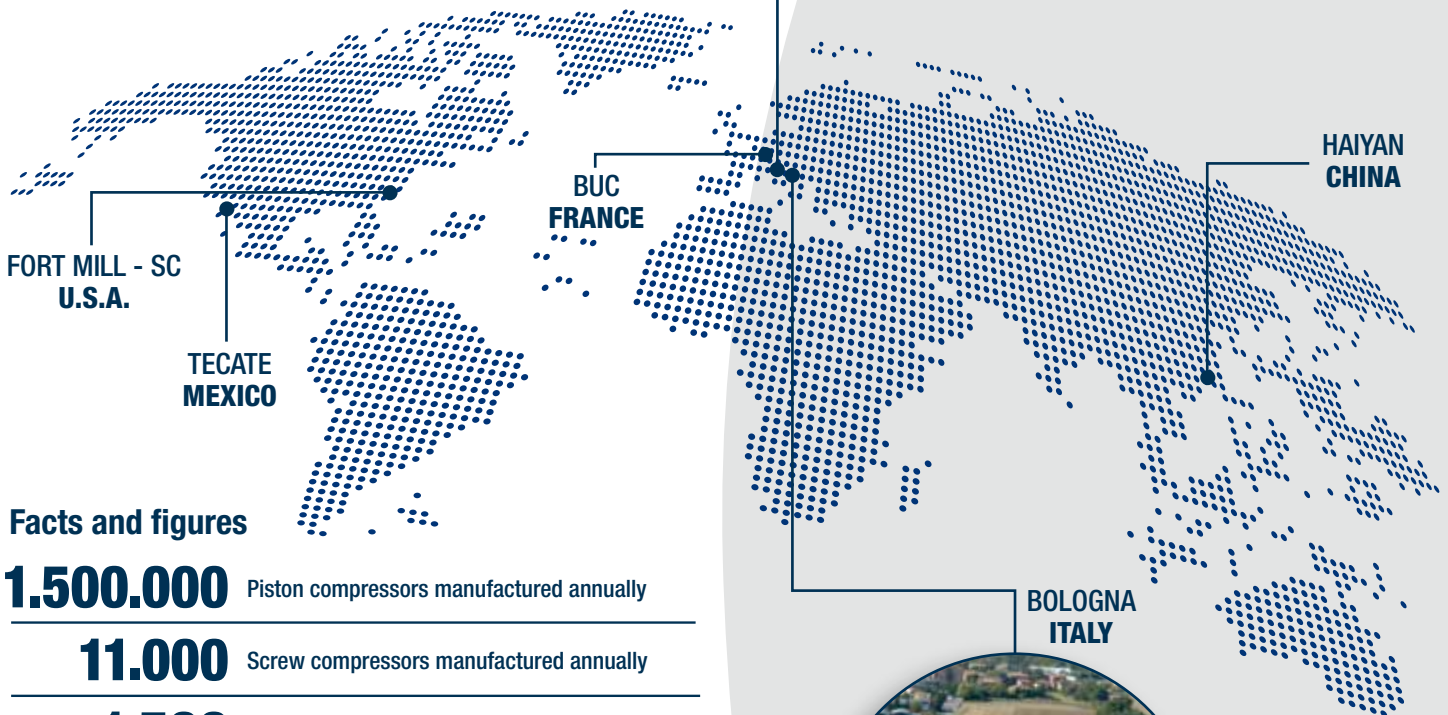
Today, Power System is part of the FNA family and is the Groups brand that represents the pinnacle of our technology, aimed specifically at the Industrial market. Power System is an undisputed leader in the design, development, production and distribution of high-tech solutions for compressing air with the greatest possible energy savings, serving every sector, from large industry to small business.

Power System's screw compressors, in the 2.2 to 315 kW power range, are manufactured entirely in Italy in the province of Bologna, an area renowned for its excellence in precision engineering, where the most modern design, construction, assembly and testing technologies are applied to ensure customers reliable compressors with first-class performance.



TORINO
ITALY

Production sites around the world



Facts and figures

1.500.000 Piston compressors manufactured annually

11.000 Screw compressors manufactured annually

1.500 Global service centres

1.300 Employees

250 Million € turnover

120 The countries we export to

6 Production plants worldwide



BOLOGNA
ITALY



NOT JUST AIR.

The Power System brand

Manufacturers of air-ends for over 30 years.

Power System is the leading Italian company, that has been able to combine craftsmanship with the most modern industrial technologies and highly specialised labour. The Made in Italy trademark is the expression of typical Italian quality and creativity, recognised and appreciated around the world, and which is now one of the distinguishing elements of our industrial production.

What makes Power System 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 and aimed at developing a machine that exceeds the most demanding requirements in terms of efficiency, quality, energy saving, performance, quiet and safe operation. Each component is thoroughly selected to integrate perfectly with our air-ends and intake regulators.

Power System air-ends feature rotors with an optimised profile and outstanding performance. The production process is completely integrated thanks to avant-garde machine tools with robotic component positioning and sophisticated control instrumentation that guarantees the highest level of quality. Each single rotor is cut in four very specific manufacturing stages to achieve high precision, execution and repeatability.

Before reaching the customer, every individual compressor is fully tested before completing final checks that ensure total compliance with over fifty stringent technical requirements.

Since 1996, the company's Quality System has been certified according to UNI EN ISO 9001:2015.



DARWIN 2.2-75

A range of compact and highly reliable industrial air compressors with multiple versions to suit many applications.

Power System screw compressors in the DARWIN range with belt transmission provide a high performance solution for the most demanding applications.

The DARWIN range has been designed to fulfill compressed air requirements in terms of reliability and efficiency, excellent energy consumption, quiet operation, reduced maintenance costs and simple installation.

The DARWIN range offers a broad selection of models, from 2.2 to 75 kW with operating pressures between 7.5 and 15 bar.

Each compressor is built according to the highest standards, using high quality components, to guarantee a long operating life and complete reliability. The transmission with long life Poly-V belt ensures long service life and extended maintenance intervals.

MADE IN ITALY

The entire production cycle takes place in-house and the air-ends as well as the essential components are fully designed and manufactured in Italy.



+



+



DARWIN 2.2 - 3.0 - 4.0 - 5.5
2.2 - 3 - 4 - 5.5 kW



DARWIN 8 - 11 - 15 - 16
7.5 - 11 - 15 kW



DARWIN 18.5 - 22 - 22DV
18.5 - 22 kW



DARWIN 31 - 38
30 - 37 kW

A complete range from 2.2 kW to 75 kW with more than 150 possible configurations!

Size	Power (kW)	Model	Floor mounted	Floor mounted + dryer (D)	With air receiver	With air receiver + dryer (D)	Air-end	Electronic controller	Electric motor efficiency	Fixed speed	Variable speed (DV)
1	2.2	DARWIN SE 2.2	•	–	200 ℓ	200 ℓ	FS14	–	IE3	•	–
	3	DARWIN SE 3.0	•	–	200 ℓ	200 ℓ	FS14	–	IE3	•	–
	4	DARWIN SE 4.0	•	–	200 ℓ	200 ℓ	FS14	–	IE3	•	–
2	4	DARWIN 4.0	•	–	200 ℓ	200 ℓ	FS14	DNAir1	IE3	•	–
	5.5	DARWIN 5.5	•	–	270-500 ℓ	270-500 ℓ	FS14	DNAir1	IE3	•	–
3	7.5	DARWIN 8	•	–	270-500 ℓ	270-500 ℓ	FS26	DNAir1	IE3	•	–
	11	DARWIN 11	•	–	270-500 ℓ	270-500 ℓ	FS26	DNAir1	IE3	•	–
	15	DARWIN 15	•	–	500 ℓ	500 ℓ	FS26	DNAir1	IE3	•	–
		DARWIN 16	•	–	500 ℓ	500 ℓ	FS50	DNAir1	IE3	•	–
4	18.5	DARWIN 18.5	•	•	–	–	FS50	DNAir2	IE3	•	–
	22	DARWIN 22	•	•	–	–	FS50	DNAir2	IE3	•	•
5	30	DARWIN 31	•	•	–	–	FS100	DNAir2	IE3	•	•
	37	DARWIN 38	•	•	–	–	FS140	DNAir2	IE3	•	•
6	45	DARWIN 45	•	–	–	–	FS140	DNAir2	IE3	•	–
	55	DARWIN 55	•	–	–	–	FS140	DNAir2	IE3	•	–
7	75	DARWIN 56	•	–	–	–	FS270	DNAir2	IE3	•	•
	90	DARWIN 75	•	–	–	–	FS270	DNAir2	IE4	•	•



31DV - 38 DV



DARWIN 45 - 55
45 - 55 kW



DARWIN 56 - 75 - 56DV - 75DV
55 - 75 kW

* DARWIN 75 kW models are equipped with new electric motors, even more performing, in "IE4 Super Premium Efficiency" energy efficiency class.

DARWIN with asynchronous motor



High efficiency and energy saving

Significant energy savings thanks to the "IE3 Premium Efficiency class" motors, reaching the "IE4" class in the DARWIN 75 kW models.

Original Power System design.

Our own in-house air ends offering the highest performance with the lowest energy consumption.

Air and oil circuits components optimization.

Latest generation inverters.



Silenced operation

The low speed air-ends and radial fans allow DARWIN compressors to maintain the lowest noise values in their category, thus, ensuring the possibility for the installation close to the point-of-use.



Simplified maintenance

All machine parts subject to periodic maintenance are placed in a convenient and easily accessible position.

Maintenance costs are reduced thanks to the use of selected, top quality materials.



Robust construction

The compact design has been created to achieve the best performance with the utmost reliability, proven in thousands of installation around the world. Every compressor undergoes thorough testing to ensure, dependability with a long service life.



Remote monitoring and preventive maintenance

Our optional SMS system allows the remote control of the compressor and promptly informs the user or service center of the machine's condition, reporting anomalies and indicating all maintenance requirements.



Refrigerated dryer (optional)

The DARWIN models from 2.2 to 37 kW can be equipped with a refrigerated dryer powered and controlled separately by its own electronic controller.





POWER SYSTEM
COMPRESSORS
NOT JUST AIR.

ENERGY EFFICIENCY CLASSES
according to IEC 60034-30-1 standards

IE4 Super Premium Efficiency
(DARWIN 75 kW)

IE3 Premium Efficiency
(DARWIN 2.2-55 kW)

IE2 High Efficiency

IE1 Standard Efficiency

Non-standard

DNAir smart controllers



› Four maintenance timers (air filter cartridge, oil, oil filter, separator filter).

- › Auto-restart after power failure.
- › Programmable cooling fan temperature.
- › Programmable remote control start of the compressor.
- › Integrated phases sequence control.

DNAir1

Installed on models from 4 to 15 kW.

The DNAir1 controller provides the complete control of all functions and operations in multiple languages, also offering remote ON-OFF and access to the maintenance program. The backlit screen shows: operating pressure, loading/operating hours, idle/load operation, oil temperature. It keeps a log of the alarms list to simplify troubleshooting.

DNAir2

Installed on models from 18.5 to 75 kW.

The DNAir2 controller was specially designed for intuitive and flexible programming, it adjusts and controls the operation of the compressor, guaranteeing its efficiency and safety. It features a large backlit LCD display, with simple and intuitive information icons and commands with multilingual drop-down menus.

The multi-function display shows:

- › Operating pressure values;
- › Oil temperature;
- › Compressor status (stand-by, idle, load);
- › Fan status (off/on);
- › Date and time;
- › Remaining hours to maintenance;
- › Inverter percentage of use (only DV models);
- › Total and load operation hours.



Weekly programming

With the DNAir2 controller it is possible to set up to 9 separate compressor operating programs.

For each program it is possible to set the start and stop time, the days of the week it needs to operate and the relative pressure range.

With a multiple-compressor system, whether fixed or variable speed, it is possible to set various programs so as to create a "virtual network" (therefore without having to physically connect them).

Total control, even remotely

SMS Device

SMS is the innovative tool to remotely control and perform predictive maintenance on screw compressors equipped with a DNAir2 controller. If the device is configured on internet networks via Wi-Fi or Ethernet, it allows e-mails to be sent automatically in case of faults and/or automatic regular e-mails (hourly, daily or weekly) to monitor the proper operation of the compressor and the remaining hours for the main programmed maintenance.

Preventive and targeted maintenance

- › automatic forwarding of email in case of alarms;
- › option of sending e-mails reporting the status of the compressor at a set frequency (hourly, daily or weekly).

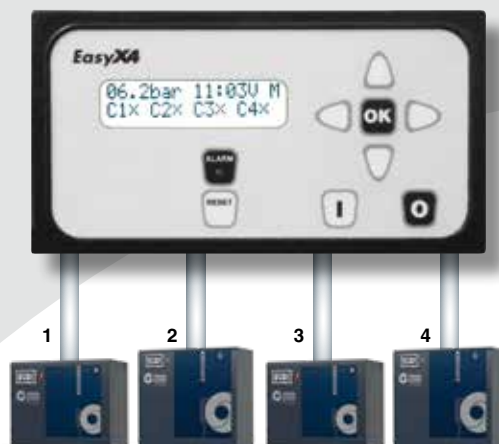
Compressor remote control

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

9062744

ANTENNA KIT + SMS DEVICE

EasyX4



Optimised plant room management

Many compressed air stations include several compressors: EasyX4 is the easiest solution to manage complex compressor system, with fixed speed, programmable on a weekly basis, capable of configuring up to 4 units, based on the amount of air actually required.

Three programming levels:

- › **MANUAL:** compressors set on a given operating pressure range;
- › **AUTOMATIC:** with pressure range exchange after a programmable time period;
- › **GROUP PROGRAMMING:** the compressors can be managed within groups.

#405531604SGL

EASY X4 CONTROLLER





Radial cooling

This design provides excellent cooling, lower noise and economical operation.

Pre-filtering panel

The ventilation system includes a pre-filtration panel on models from 18.5kW. This facility ensures that all internal components are protected, for longer life.

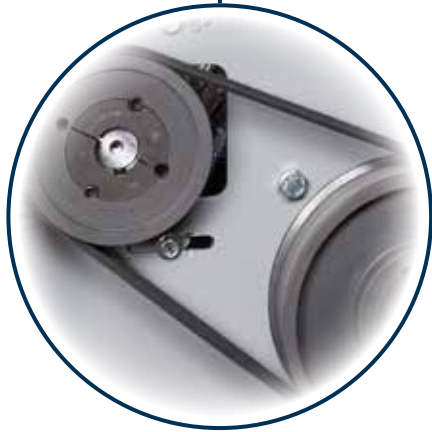


Oil filter and oil separator filter

Both items are of a 'spin-on' design providing efficiency and simple maintenance.

Reliable transmission

The Poly-V drive belt provides much lower energy losses with three times the service life of other systems. The unique belt tensioning arrangements ensures continuous performance.



Pressure sensor

This carefully positioned device ensures optimised control of the operating pressures in sequence with the electronic controller for complete reliability.



Intake regulator

Our own production intake regulator provides the control to the load cycle of the compressor with reduced pressure during idle operation and subsequent lower power consumption.



Minimum pressure valve

Made with corrosion resistant materials and of a proven design, capable of operating in extreme conditions.

Simplified maintenance

All routine maintenance can be carried out safely and conveniently thanks to a considered design, that allows unhindered access to all areas.



Air filter

The two stage filter cartridge allows use in dusty environments.



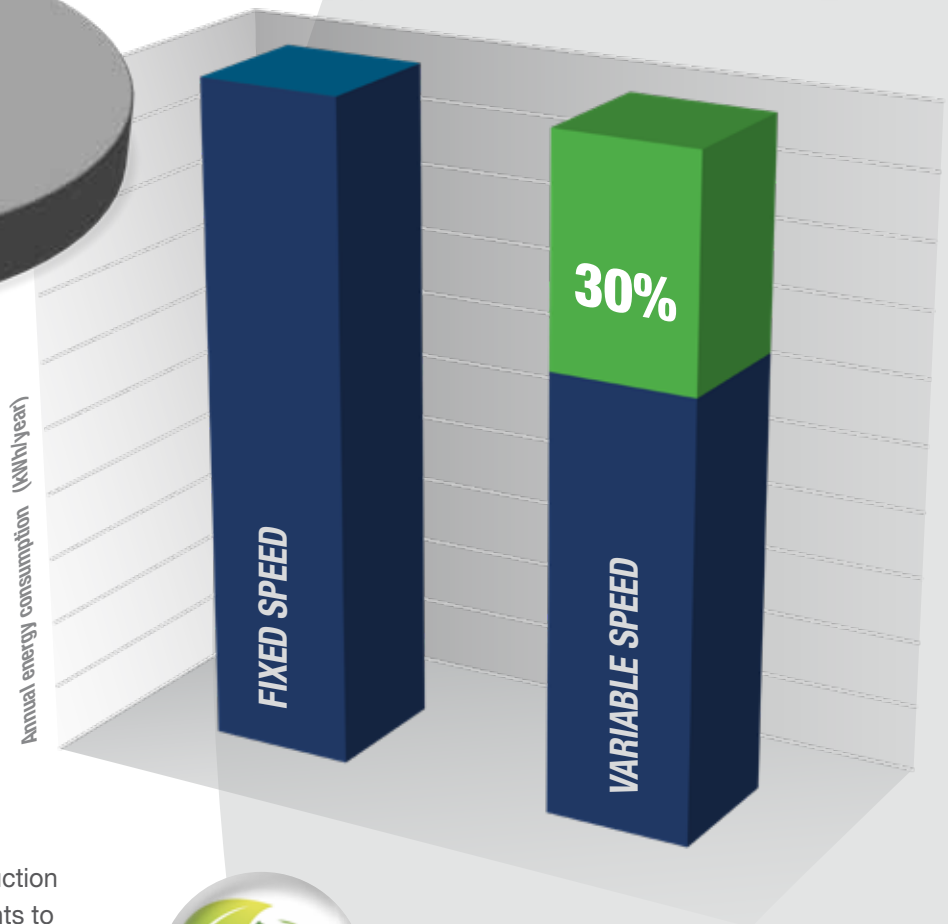
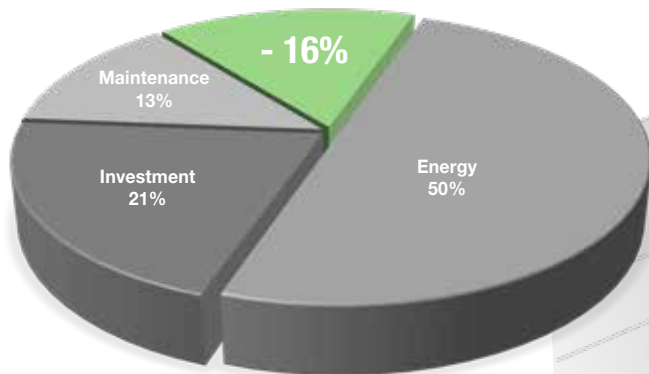
DARWIN 38

Variable speed DARWIN DV

The inverter, installed in the electrical panel of the compressor, dynamically adjusts the speed of the electric motor and the air-end, adjusting the delivered air flow to the real demand. It also eliminates current surges thanks to the soft start-up and drastically reduces operating cycles in idling operation, reducing wear to components with greatly reduced energy consumption.

Significant energy savings

In comparison to a fixed speed compressor, with a DARWIN DV it is possible to achieve significant savings, up to 30% on energy consumption and, therefore a reduction of approximately 16% of the cost of the life cycle in 10 years of use.



Efficiency is synonymous with sustainability

The search for energy efficiency in the production processes is one of the main leveraging points to maintain our competitiveness advantage on the market also under the profile of sustainability. Living sustainably means preserving the natural resources as much as possible: choosing a DARWIN or a DARWIN DV, reducing energy consumption and CO₂ emissions, therefore also represents an ecological choice.



■ Energy consumption ■ Energy savings

The calculation represented in the graphs is based on the energy analysis of a 37 kW model, with 55% duty cycle, considering an energy cost of 0.17€/kWh and 47 work weeks per year.

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?

Compressed air is most critical to production and manufacturing operations everywhere. The energy audit provides a valuable analysis of the system, identifying all operating data including power consumption. The very precise data collected is then used to provide a simulation report, identifying opportunities for reducing energy consumption and improving efficiencies.

Our experience at your service

Thanks to decades of experience in the industrial sector, Power System can provide companies with a detection and analysis service for professional auditing (EATool).



EA 400 code 9062747	ideal for compressors' rooms up to 3 units
	<ul style="list-style-type: none"> ➤ 4 analogue inputs: <ul style="list-style-type: none"> - 3 amperometric clamps - 1 pressure sensor ➤ 1 extension for cables (10m long) ➤ 4.3" colour touch screen display

EA 500 code 9062748	ideal for compressors' rooms up to 4 units
	<ul style="list-style-type: none"> ➤ 5 analogue inputs: <ul style="list-style-type: none"> - 4 amperometric clamps - 1 pressure sensor ➤ 2 extensions for cables (10m long) ➤ 7" colour touch screen display

DARWIN SE

2.2-4 kW

Code	Air receiver	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
	ℓ	kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.							

ELECTROMECHANICAL

2.2 kW																
DARWIN SE 2.2-08	V51JU72PWSA87	-	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	93	580x480x760	104	720x670x970
DARWIN SE 2.2-10	V51JT72PWSA87	-	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	93	580x480x760	109	720x670x970
DARWIN SE 2.2-08 M	V51JU60PWSA87	-	2.2	3	300	0.30	11	8	116	FS14	58	1/2"	98	580x480x760	109	720x670x970
DARWIN SE 2.2-10 M	V51JT60PWSA87	-	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	98	580x480x760	109	720x670x970
DARWIN SE 2.2-08-200	V77JU72PWSA80	200	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	142	1480x520x1280	175	1560x660x1430
DARWIN SE 2.2-10-200	V77JT72PWSA80	200	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	142	1480x520x1280	175	1560x660x1430
DARWIN SE 2.2-10-200 M	V77JT60PWSA80	200	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	148	1480x520x1280	181	1560x660x1430
DARWIN SE 2.2-08-200 D	V77JU72PWSB80	200	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	164	1480x520x1280	197	1560x660x1430
DARWIN SE 2.2-10-200 D	V77JT72PWSB80	200	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	164	1480x520x1280	197	1560x660x1430
DARWIN SE 2.2-10-200 D M	V77JT60PWSB80	200	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	144	1480x520x1280	190	1560x660x1430
3 kW																
DARWIN SE 3.0-08	V51JS72PWSA87	-	3	4	430	0.43	15	8	116	FS14	59	1/2"	99	580x480x760	110	720x670x970
DARWIN SE 3.0-10	V51JQ72PWSA87	-	3	4	385	0.39	14	10	145	FS14	59	1/2"	99	580x480x760	110	720x670x970
DARWIN SE 3.0-08-200	V77JS72PWSA80	200	3	4	430	0.43	15	8	116	FS14	59	1/2"	155	1480x520x1280	188	1560x660x1430
DARWIN SE 3.0-10-200	V77JQ72PWSA80	200	3	4	385	0.39	14	10	145	FS14	59	1/2"	155	1480x520x1280	188	1560x660x1430
DARWIN SE 3.0-08-200 D	V77JS72PWSB80	200	3	4	430	0.43	15	8	116	FS14	59	1/2"	177	1480x520x1280	210	1560x660x1430
DARWIN SE 3.0-10-200 D	V77JQ72PWSB80	200	3	4	385	0.39	14	10	145	FS14	59	1/2"	177	1480x520x1280	210	1560x660x1430
4 kW																
DARWIN SE 4.0-08	V51JR72PWSA87	-	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	108	580x480x760	119	720x670x970
DARWIN SE 4.0-10	V51JP72PWSA87	-	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	108	580x480x760	109	720x670x970
DARWIN SE 4.0-08-200	V77JR72PWSA80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	157	1480x520x1280	190	1560x660x1430
DARWIN SE 4.0-10-200	V77JP72PWSA80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	157	1480x520x1280	190	1560x660x1430
DARWIN SE 4.0-08-200 D	V77JR72PWSB80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	179	1480x520x1280	212	1560x660x1430
DARWIN SE 4.0-10-200 D	V77JP72PWSB80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	179	1480x520x1280	212	1560x660x1430

DARWIN

4-5.5 kW

Code	Air receiver	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Air outlet	Net weight	Net dimensions	Gross weight	Gross dimensions
	ℓ	kW	HP	l/min.	m³/min.	c.f.m.	bar	p.s.i.							

ELECTRONIC - DN Air 1

4 kW NEW MOTOR AND CABINET																
DARWIN 4.0-08	V51JR92PWSA87	-	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	126	600x520x780	137	720x670x970
DARWIN 4.0-10	V51JP92PWSA87	-	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	126	600x520x780	137	720x670x970
DARWIN 4.0-13	V51JV92PWSA87	-	4	5.5	330	0.33	12	13	189	FS14	60	1/2"	126	600x520x780	137	720x670x970
DARWIN 4.0-08-200	V77JR92PWSA80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	178	1430x550x1310	205	1540x620x1470
DARWIN 4.0-10-200	V77JP92PWSA80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	178	1430x550x1310	205	1540x620x1470
DARWIN 4.0-08-200 D	V77JR92PWSB80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	208	1430x550x1310	232	1540x620x1470
DARWIN 4.0-10-200 D	V77JP92PWSB80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	208	1430x550x1310	232	1540x620x1470
5.5 kW																
DARWIN 5.5-08	V51JW92PWSA87	-	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	130	600x520x780	141.5	720x670x970
DARWIN 5.5-10	V51JO92PWSA87	-	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	130	600x520x780	141.5	720x670x970
DARWIN 5.5-13	V51JM92PWSA87	-	5.5	7.5	485	0.49	17	13	189	FS14	64	1/2"	130	600x520x780	141.5	720x670x970
DARWIN 5.5-08-270	V91JW92PWSA80	270	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	205	1560x570x1390	240	1720x750x1680
DARWIN 5.5-10-270	V91JO92PWSA80	270	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	205	1560x570x1390	240	1720x750x1680
DARWIN 5.5-08-500	V83JW92PWSA80	500	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	275	2000x600x1480	320	2070x800x1680
DARWIN 5.5-10-500	V83JO92PWSA80	500	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	275	2000x600x1480	320	2070x800x1680
DARWIN 5.5-08-270 D	V91JW92PWSB80	270	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	230	1560x570x1390	265	1720x750x1680
DARWIN 5.5-10-270 D	V91JO92PWSB80	270	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	230	1560x570x1390	265	1720x750x1680
DARWIN 5.5-13-270 D	V91JM92PWSB80	270	5.5	7.5	485	0.49	17	13	189	FS14	64	1/2"	229	1560x570x1390	265	1720x750x1680
DARWIN 5.5-08-500 D	V83JW92PWSB80	500	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	310	2000x600x1480	352	2070x800x1680
DARWIN 5.5-10-500 D	V83JO92PWSB80	500	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	310	2000x600x1480	352	2070x800x1680

D = fixed speed model with refrigerated dryer and automatic condensate drain (filters excluded - refer to page 17).
 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 operative pressures:
 8 bar for models at 8 bar - 10 bar for models at 10 bar - 13 bar for models at 13 bar.
 The data and results were measured in accordance with standard ISO 1217.
 The sound level was measured in accordance with standard ISO 2151, with a tolerance of ±3 dB(A).



NOT JUST AIR.

DARWIN

18.5-75 kW

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.	m ³ /min.	c.f.m.	bar	p.s.i.								dB(A)
FIXED SPEED - DNaIr 2															
18.5 kW															
DARWIN 18.5-08	V60QA92PWSA87	18.5	25	2800	2.80	99	8	116	FS50	66	1"	397	1360x830x1130	470	1530x1000x1380
DARWIN 18.5-10	V60QB92PWSA87	18.5	25	2500	2.50	88	10	145	FS50	66	1"	397	1360x830x1130	470	1530x1000x1380
DARWIN 18.5-13	V60QC92PWSA87	18.5	25	2150	2.15	76	13	189	FS50	66	1"	397	1360x830x1130	470	1530x1000x1380
DARWIN 18.5-15	V60QS92PWSA87	18.5	25	1650	1.65	58	15	218	FS50	66	1"	397	1360x830x1130	470	1530x1000x1380
DARWIN 18.5-08 D	V60QA92PWSB87	18.5	25	2800	2.80	99	8	116	FS50	66	1" 1/4	447	1740x830x1130	537	2050x1140x1670
DARWIN 18.5-10 D	V60QB92PWSB87	18.5	25	2500	2.50	88	10	145	FS50	66	1" 1/4	447	1740x830x1130	537	2050x1140x1670
DARWIN 18.5-13 D	V60QC92PWSB87	18.5	25	2150	2.15	76	13	189	FS50	66	1" 1/4	447	1740x830x1130	537	2050x1140x1670
22 kW															
DARWIN 22-08	V60QD92PWSA87	22	30	3350	3.35	118	8	116	FS50	68	1"	419	1360x830x1130	492	1530x1000x1380
DARWIN 22-10	V60QE92PWSA87	22	30	3000	3.00	106	10	145	FS50	68	1"	419	1360x830x1130	492	1530x1000x1380
DARWIN 22-13	V60QF92PWSA87	22	30	2400	2.40	85	13	189	FS50	68	1"	419	1360x830x1130	492	1530x1000x1380
DARWIN 22-15	V60QK92PWSA87	22	30	1970	1.97	70	15	218	FS50	68	1"	419	1360x830x1130	492	1530x1000x1380
DARWIN 22-08 D	V60QD92PWSB87	22	30	3350	3.35	118	8	116	FS50	68	1" 1/4	469	1740x830x1130	559	2050x1140x1670
DARWIN 22-10 D	V60QE92PWSB87	22	30	3000	3.00	106	10	145	FS50	68	1" 1/4	469	1740x830x1130	559	2050x1140x1670
DARWIN 22-13 D	V60QF92PWSB87	22	30	2400	2.40	85	13	189	FS50	68	1" 1/4	469	1740x830x1130	559	2050x1140x1670
30 kW															
DARWIN 31-08	V60BU92PWSA87	30	40	4700	4.70	166	8	116	FS100	70	1" 1/4	663	1530x880x1440	737	1690x1030x1730
DARWIN 31-10	V60BV92PWSA87	30	40	4200	4.20	148	10	145	FS100	70	1" 1/4	663	1530x880x1440	737	1690x1030x1730
DARWIN 31-13	V60BW92PWSA87	30	40	3400	3.40	120	13	189	FS100	70	1" 1/4	663	1530x880x1440	737	1690x1030x1730
DARWIN 31-08 D	V60BU92PWSB87	30	40	4700	4.70	166	8	116	FS100	70	1" 1/2	728	1860x910x1440	818	2050x1140x1670
DARWIN 31-10 D	V60BV92PWSB87	30	40	4200	4.20	148	10	145	FS100	70	1" 1/2	728	1860x910x1440	818	2050x1140x1670
DARWIN 31-13 D	V60BW92PWSB87	30	40	3400	3.40	120	13	189	FS100	70	1" 1/2	728	1860x910x1440	818	2050x1140x1670
37 kW															
DARWIN 38-08	V60BK92PWSA87	37	50	6000	6.00	212	7.5	109	FS140	68	1" 1/4	724	1530x880x1440	798	1690x1030x1730
DARWIN 38-10	V60BJ92PWSA87	37	50	5300	5.30	187	10	145	FS140	68	1" 1/4	724	1530x880x1440	798	1690x1030x1730
DARWIN 38-13	V60BI92PWSA87	37	50	4000	4.00	141	13	189	FS140	68	1" 1/4	724	1530x880x1440	798	1690x1030x1730
DARWIN 38-08 D	V60BK92PWSB87	37	50	6000	6.00	212	7.5	109	FS140	68	1" 1/2	789	1860x910x1440	879	2050x1140x1670
DARWIN 38-10 D	V60BJ92PWSB87	37	50	5300	5.30	187	10	145	FS140	68	1" 1/2	789	1860x910x1440	879	2050x1140x1670
DARWIN 38-13 D	V60BI92PWSB87	37	50	4000	4.00	141	13	189	FS140	68	1" 1/2	789	1860x910x1440	879	2050x1140x1670
45 kW															
DARWIN 45-08	V60BM92PWSA87	45	60	7200	7.20	254	7.5	109	FS140	72	1" 1/2	946	1590x1000x1570	1032	1800x1200x2110
DARWIN 45-10	V60BN92PWSA87	45	60	6500	6.50	230	10	145	FS140	72	1" 1/2	946	1590x1000x1570	1032	1800x1200x2110
DARWIN 45-13	V60BQ92PWSA87	45	60	5100	5.10	180	13	189	FS140	72	1" 1/2	946	1590x1000x1570	1032	1800x1200x2110
55 kW															
DARWIN 55-08	V60BR92PWSA87	55	75	8600	8.60	304	7.5	109	FS140	74	1" 1/2	1009	1590x1000x1570	1095	1800x1200x2110
DARWIN 55-10	V60BS92PWSA87	55	75	7800	7.80	275	10	145	FS140	74	1" 1/2	1009	1590x1000x1570	1095	1800x1200x2110
DARWIN 55-13	V60BT92PWSA87	55	75	6400	6.40	226	13	189	FS140	74	1" 1/2	1009	1590x1000x1570	1095	1800x1200x2110
55 kW with FS270 air-end															
DARWIN 56-08	V60BA92PWSA87	55	75	9300	9.30	328	7.5	109	FS270	70	2"	1360	1800x1140x1860	1470	2000x1290x2270
DARWIN 56-10	V60BB92PWSA87	55	75	8300	8.30	293	10	145	FS270	70	2"	1360	1800x1140x1860	1470	2000x1290x2270
DARWIN 56-13	V60BC92PWSA87	55	75	7000	7.00	247	13	189	FS270	70	2"	1360	1800x1140x1860	1470	2000x1290x2270
75 kW															
DARWIN 75-08	V60BD92PWSA87	75	100	12200	12.20	431	7.5	109	FS270	72	2"	1470	1800x1140x1860	1580	2000x1290x2270
DARWIN 75-10	V60BE92PWSA87	75	100	10500	10.50	371	10	145	FS270	72	2"	1470	1800x1140x1860	1580	2000x1290x2270
DARWIN 75-13	V60BF92PWSA87	75	100	8300	8.30	293	13	189	FS270	72	2"	1470	1800x1140x1860	1580	2000x1270x2270

D = fixed speed model with refrigerated dryer 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 operative pressures:

Darwin 18.5-22-31: 8 bar for models at 8 bar - 10 bar for models at 10 bar - 13 bar for models at 13 bar - 15 bar for models at 15 bar.

Darwin 38-45-55-56-75: 7.5 bar for models at 7.5 bar - 10 bar for models at 10 bar - 13 bar for models at 13 bar.

The data and results were measured in accordance with standard ISO 1217.

The sound level was measured in accordance with standard ISO 2151, with a tolerance of ±3 dB(A).



NOT JUST AIR.

DARWIN

22-75 kW

Code	Power		Air outflow rate (min.-max.)			Max. pressure		Air-end	Sound level dB(A)	Air outlet G	Net weight kg	Net dimensions L x W x H (mm)	Gross weight kg	Gross dimensions L x W x H (mm)
	kW	HP	l/min.	m ³ /min.	c.f.m.	bar	p.s.i.							

VARIABLE SPEED - DNAir 2

22 kW															
DARWIN 22-08 DV	V60QD97PWSA87	22	30	1350-3350	1.35-3.35	48-118	8	116	FS50	68	1"	437	1360x830x1130	519	1530x1000x1380
DARWIN 22-10 DV	V60QE97PWSA87	22	30	1220-3050	1.22-3.05	43-108	10	145	FS50	68	1"	437	1360x830x1130	519	1530x1000x1380
DARWIN 22-08 DV-D	V60QD97PWSB87	22	30	1350-3350	1.35-3.35	48-118	8	116	FS50	68	1" 1/4	487	1740x830x1130	586	2050x1140x1670
DARWIN 22-10 DV-D	V60QE97PWSB87	22	30	1220-3050	1.22-3.05	43-108	10	145	FS50	68	1" 1/4	487	1740x830x1130	586	2050x1140x1670
30 kW															
DARWIN 31-08 DV	V60BU97PWSA87	30	40	1700-4700	1.70-4.70	60-166	8	116	FS100	67	1" 1/4	695	1530x880x1440	756	1690x1030x1730
DARWIN 31-10 DV	V60BV97PWSA87	30	40	1500-4200	1.50-4.20	53-148	10	145	FS100	68	1" 1/4	695	1530x880x1440	756	1690x1030x1730
DARWIN 31-13 DV	V60BW97PWSA87	30	40	1300-3400	1.30-3.40	46-120	13	189	FS100	64	1" 1/4	695	1530x880x1440	756	1690x1030x1730
37 kW															
DARWIN 38-08 DV	V60BK97PWSA87	37	50	2400-6000	2.40-6.00	85-212	8	116	FS140	68	1" 1/4	748	1530x880x1440	817	1690x1030x1730
DARWIN 38-10 DV	V60BJ97PWSA87	37	50	2100-5300	2.10-5.30	74-187	10	145	FS140	68	1" 1/4	748	1530x880x1440	817	1690x1030x1730
DARWIN 38-08 DV-D	V60BK97PWSB87	37	50	2400-6000	2.40-6.00	85-212	8	116	FS140	68	1" 1/2	813	1860x910x1440	898	2050x1140x1670
DARWIN 38-10 DV-D	V60BJ97PWSB87	37	50	2100-5300	2.10-5.30	74-187	10	145	FS140	68	1" 1/2	813	1860x910x1440	898	2050x1140x1670
55 kW															
DARWIN 56-08 DV	V60BA97PWSA87	55	75	3700-9300	3.70-9.30	131-328	8	116	FS270	70	2"	1396	1800x1140x1860	1515	2000x1290x2270
DARWIN 56-10 DV	V60BB97PWSA87	55	75	3300-8300	3.30-8.30	117-293	10	145	FS270	70	2"	1396	1800x1140x1860	1515	2000x1290x2270
75 kW															
DARWIN 75-08 DV	V60BD97PWSA87	75	100	4800-12200	4.80-12.20	170-431	8	116	FS270	72	2"	1506	1800x1140x1860	1645	2000x1290x2270
DARWIN 75-10 DV	V60BE97PWSA87	75	100	4200-10500	4.20-10.50	148-371	10	145	FS270	72	2"	1506	1800x1140x1860	1645	2000x1290x2270

DV = variable speed model with inverter.

DV-D = variable speed model with inverter, refrigerated dryer 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 operative pressures: 7.5 bar for models at 8 bar - 9.5 bar for models at 10 bar.

The data and results were measured in accordance with standard ISO 1217.

The sound level was measured in accordance with standard ISO 2151, with a tolerance of ±3 dB(A).



Compressor model	Motor power	Air receiver	Dryer	Air flow	Filter kit
	kW	l	type	m ³ /min.	code
DARWIN	2.2-5.5	200-270-500	RD17	1.6	#260KFL010
	7.5 - 11	270	RD17	2.5	#260KFL020
	7.5-11-15	500	RD17-RD24	2.5	#260KFL030

A complete solution

For all versions ranging from 2.2 to 15 kW with air receiver and dryer, it is available a retrofittable optional filter set (1 prefilter and 1 microfilter).

Extend the life and efficiency of your screw 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 customers' needs and the most suitable solutions.

Our skilled and professional team grants 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 shipment 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 compressor performance.



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 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.



...and specific lubricants

RotarECOFLUID 46 cSt mineral oil

#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.

RotEnergyPlus 46 cSt synthetic oil

#600000018A	1 x 3.8-litre can (3.25 kg)
#60000007A	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.

RotEnergyFood 46 cSt synthetic oil

#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. 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.

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