MADE IN ITALY

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

Belt-driven fixed speed
rotary screw compressors

DARWIN-E

2.2-75 kW



NEW
2026 RANGE

FNA COMPRESSORS

Over 75 years of compressed air.

FNA COMPRESSORS is a Multinational company with over 75 years of experience in the compressed air sector, founded from the merger of three long-established Italian compressor companies, 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, FNA COMPRESSORS is one of the leading manufacturers of air compressors for industrial, professional and consumer use.

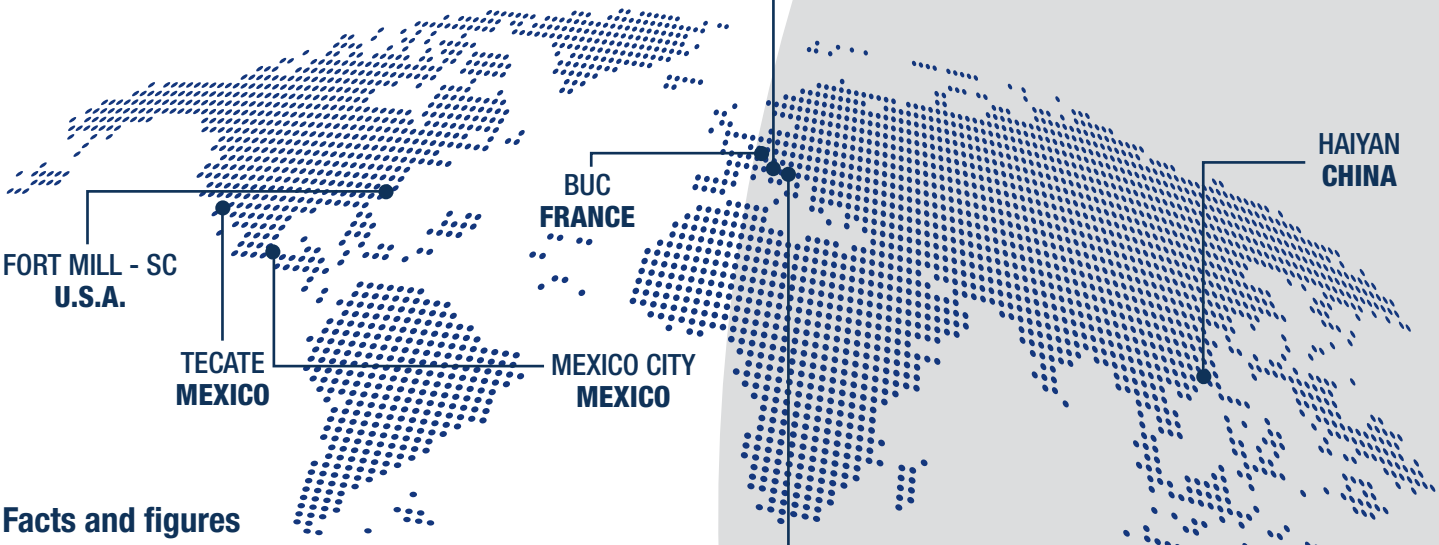
Power System, an integral part of the FNA COMPRESSORS family, is the industrial trademark, an undisputed leader in the design, development, production and distribution of high-tech solutions for compressing air with the greatest possible energy savings, serving every sector, from large industry to small 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.



TURIN
ITALY

Production sites around the world





Facts and figures

1.500.000	Piston compressors produced per year
11.000	Screw compressors produced per year
1.500	Global service centres
1.300	Employees
300	Million € turnover
120	Countries we export to
7	Manufacturing plants

POWER SYSTEM
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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 passion with the most modern industrial technologies, integrating highly specialised labour with last-generation automatic machinery.
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 reliability, energy saving, performance, quiet and safe operation.

Power System air-ends, the true heart of our compressors, feature rotors with an optimised profile and outstanding performance. Their production process is completely integrated thanks to robotic machine tools and sophisticated control instrumentation that guarantees the highest level of quality.
Each single rotor is machined in four very specific stages to achieve high precision 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.

POWER SYSTEM
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DARWIN-E 2.2-15 kW

Compact, silent and ready to use.
Available in multiple versions to suit many applications.

Power System's new DARWIN-E series screw compressors provide a high-performance solution for the most demanding applications. Designed to fulfill compressed air requirements in terms of reliability, energy efficiency, quiet operation, reduced maintenance costs, and simple installation and use, the DARWIN-E range offers a broad selection of models, from 2.2 to 15 kW with operating pressures between 8 and 15 bar, available with or without air receiver or dryer.
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.

IE3 Premium Efficiency MOTOR



DARWIN-E SE 2.2 - 3.0 - 4.0
2.2 - 3 - 4 kW

ELECTROMECHANICAL
(direct start)

POWER SYSTEM AIR COMPRESSORS
NOT JUST AIR.

A complete and versatile range, from 2.2 to 15 kW with more than 100 possible configurations!

Size	Power (kW)	Model	Electronic controller	Floor mounted	With air receiver	With air receiver + dryer (D)	Air-end	Electric motor efficiency	Fixed speed
1	**2.2**	**DARWIN-E SE 2.2**	–	•	200 ℓ	200 ℓ	FS14	IE3	•
	3	**DARWIN-E SE 3.0**		•	200 ℓ	200 ℓ	FS14	IE3	•
	4	**DARWIN-E SE 4.0**		•	200 ℓ	200 ℓ	FS14	IE3	•
	4	**DARWIN-E 4.0**	LOGIN Mini	•	200 ℓ	200 ℓ	FS14	IE3	•
	5.5	**DARWIN-E 5.5**		•	270-500 ℓ	270-500 ℓ	FS14	IE3	•
2	**7.5**	**DARWIN-E 8**	LOGIN Mini	•	270-500 ℓ	270-500 ℓ	FS26	IE3	•
	11	**DARWIN-E 11**		•	270-500 ℓ	270-500 ℓ	FS26	IE3	•
	15	**DARWIN-E 15**		•	500 ℓ	500 ℓ	FS50	IE3	•







DARWIN-E 4.0 - 5.5
4 - 5.5 kW

ELECTRONIC - LOGIN Mini
(star-delta start)

DARWIN-E 8 - 11 - 15
7.5 - 11 - 15 kW

ELECTRONIC - LOGIN Mini
(star-delta start)

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

DARWIN-E 2.2-15 kW

Efficiency and energy savings

Significant energy savings thanks to “IE3 Premium Efficiency” class motors.
Poly-V belt transmission based on an original Power System design.
Our own in-house air ends offering the highest performance with the lowest energy consumption.
Air and oil circuits components optimisation.

Silenced operation

The low speed air-ends and radial fans allow DARWIN-E 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 visible 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, tested and proven in thousands of installations around the world. This makes DARWIN-E machines dependable and long-lasting.

Remote monitoring and preventive maintenance

LOGIN Mini controllers feature RS485 ports for communication with remote systems via Modbus protocol.
Furthermore, the "ISC" system allows up to 8 different compressors (fixed and/or variable speed) to be connected simultaneously using master-slave logic.

Refrigerated dryer and filters (optional)

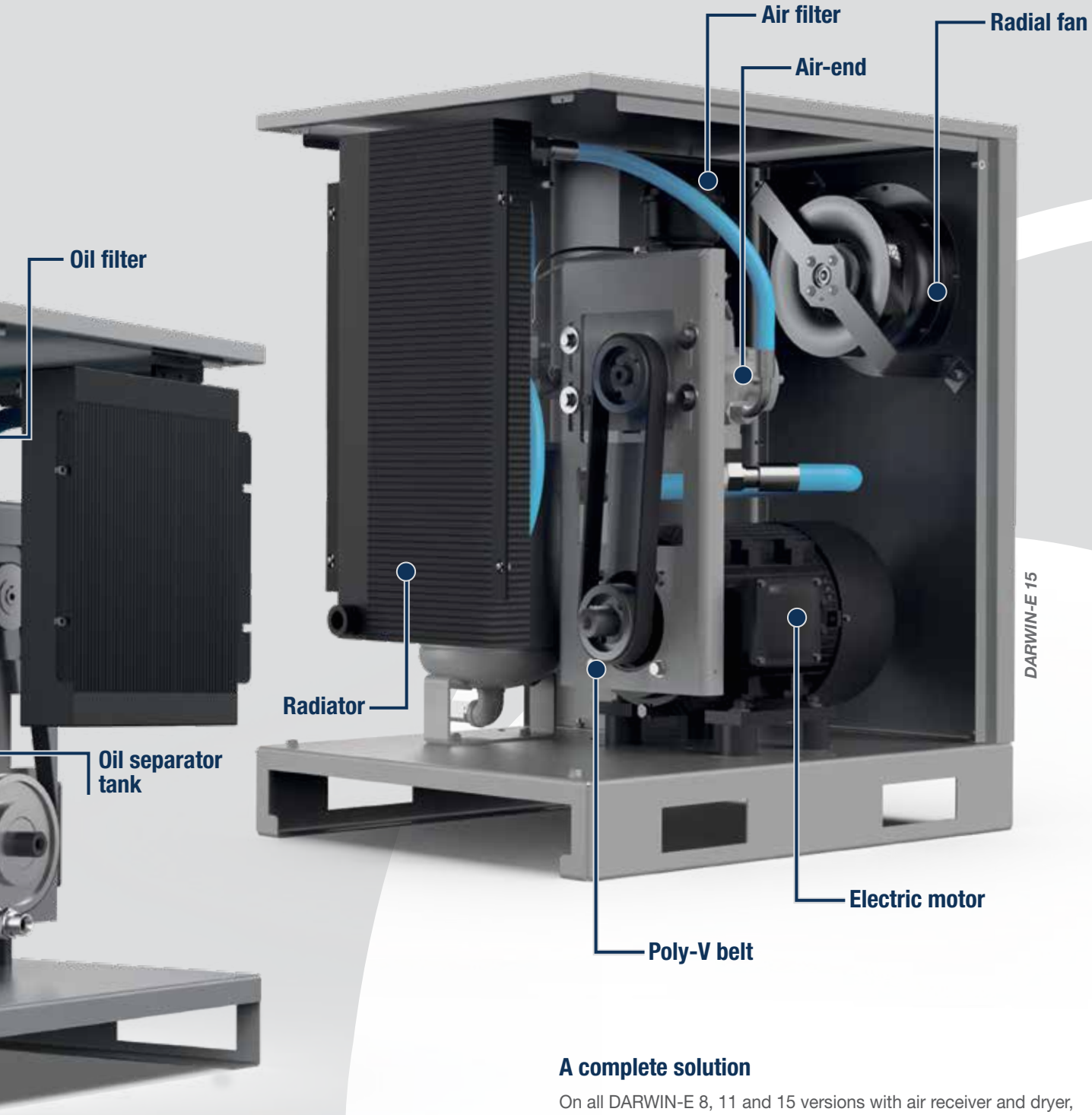
The DARWIN-E models from 2.2 to 15 kW can be equipped with a refrigerated dryer; the 7.5 to 15 kW air receiver versions can also be equipped with line filters, mounted on the rear of the air receiver.





S-DRY dryer

Models equipped with a refrigerated dryer are complete, ready-to-use machines, with no additional installation costs!



A complete solution

On all DARWIN-E 8, 11 and 15 versions with air receiver and dryer, a retrofittable **optional filter set** is available (including oil and fine oil filters with total filtration degree 0.01 micron and oil residual 0.01 mg/m^3) to obtain a complete workstation.

Model	Motor power	Air receiver	Dryer	Connection	Air flow rate	Filter kits
	kW	l	model	G	m^3/min.	code
DARWIN-E 8 - 11	7.5 - 11	270 - 500	S-DRY 17	1"	1.7	**C260KFL050**
DARWIN-E 15	15	500	S-DRY 24	1"	2.4	



DARWIN-E SE
2.2-4 kW

	P/N	Air receiver	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Con-nection	Net weight	Net dimensions	Gross weight	Gross dimensions
		ℓ	kW	HP	l/min	m³/min	cfm	bar	psi		dB(A)	G	kg	L x W x H (mm)	kg	L x W x H (mm)
ELECTROMECHANICAL - direct start																
2.2 kW																
DARWIN-E SE 2.2-08	V51EQ72PWSA87	-	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	82	600x530x780	94	720x670x970
DARWIN-E SE 2.2-10	V51ER72PWSA87	-	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	82	600x530x780	94	720x670x970
DARWIN-E SE 2.2-08 M	V51EQ60PWSA87	-	2.2	3	300	0.30	11	8	116	FS14	58	1/2"	87	600x530x780	99	720x670x970
DARWIN-E SE 2.2-10 M	V51ER60PWSA87	-	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	87	600x530x780	99	720x670x970
DARWIN-E SE 2.2-08-200	V77EQ72PWSA80	200	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	139	1415x530x1235	164	1525x610x1470
DARWIN-E SE 2.2-10-200	V77ER72PWSA80	200	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	139	1415x530x1235	164	1525x610x1470
DARWIN-E SE 2.2-10-200 M	V77ER60PWSA80	200	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	144	1415x530x1235	169	1525x610x1470
DARWIN-E SE 2.2-08-200 D	V77EQ72PWSB80	200	2.2	3	325	0.33	11	8	116	FS14	58	1/2"	171	1415x530x1235	196	1525x610x1470
DARWIN-E SE 2.2-10-200 D	V77ER72PWSB80	200	2.2	3	290	0.29	10	10	145	FS14	58	1/2"	171	1415x530x1235	196	1525x610x1470
DARWIN-E SE 2.2-10-200 M D	V77ER60PWSB80	200	2.2	3	240	0.24	8	10	145	FS14	58	1/2"	176	1415x530x1235	201	1525x610x1470
3 kW																
DARWIN-E SE 3.0-08	V51ES72PWSA87	-	3	4	430	0.43	15	8	116	FS14	59	1/2"	89	600x530x780	101	720x670x970
DARWIN-E SE 3.0-10	V51ET72PWSA87	-	3	4	385	0.39	14	10	145	FS14	59	1/2"	89	600x530x780	101	720x670x970
DARWIN-E SE 3.0-08-200	V77ES72PWSA80	200	3	4	430	0.43	15	8	116	FS14	59	1/2"	146	1415x530x1235	171	1525x610x1470
DARWIN-E SE 3.0-10-200	V77ET72PWSA80	200	3	4	385	0.39	14	10	145	FS14	59	1/2"	146	1415x530x1235	171	1525x610x1470
DARWIN-E SE 3.0-08-200 D	V77ES72PWSB80	200	3	4	430	0.43	15	8	116	FS14	59	1/2"	178	1415x530x1235	203	1525x610x1470
DARWIN-E SE 3.0-10-200 D	V77ET72PWSB80	200	3	4	385	0.39	14	10	145	FS14	59	1/2"	178	1415x530x1235	203	1525x610x1470
4 kW																
DARWIN-E SE 4.0-08	V51FF72PWSA87	-	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	93	600x530x780	105	720x670x970
DARWIN-E SE 4.0-10	V51FG72PWSA87	-	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	93	600x530x780	105	720x670x970
DARWIN-E SE 4.0-08-200	V77FF72PWSA80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	150	1415x530x1235	175	1525x610x1470
DARWIN-E SE 4.0-10-200	V77FG72PWSA80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	150	1415x530x1235	175	1525x610x1470
DARWIN-E SE 4.0-08-200 D	V77FF72PWSB80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	182	1415x530x1235	207	1525x610x1470
DARWIN-E SE 4.0-10-200 D	V77FG72PWSB80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	182	1415x530x1235	207	1525x610x1470

DARWIN-E
4-5.5 kW

	P/N	Air receiver	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Con-nection	Net weight	Net dimensions	Gross weight	Gross dimensions
		ℓ	kW	HP	l/min	m³/min	cfm	bar	psi		dB(A)	G	kg	L x W x H (mm)	kg	L x W x H (mm)
ELECTRONIC - LOGIN Mini - star-delta start																
4 kW																
DARWIN-E 4.0-08	V51EU92PWSA87	-	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	98	600x550x780	110	720x670x970
DARWIN-E 4.0-10	V51EV92PWSA87	-	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	98	600x550x780	110	720x670x970
DARWIN-E 4.0-13	V51EW92PWSA87	-	4	5.5	330	0.33	12	13	189	FS14	60	1/2"	98	600x550x780	110	720x670x970
DARWIN-E 4.0-08-200	V77EU92PWSA80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	156	1415x560x1235	181	1525x610x1470
DARWIN-E 4.0-10-200	V77EV92PWSA80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	156	1415x560x1235	181	1525x610x1470
DARWIN-E 4.0-08-200 D	V77EU92PWSB80	200	4	5.5	580	0.58	20	8	116	FS14	60	1/2"	186	1415x560x1235	211	1525x610x1470
DARWIN-E 4.0-10-200 D	V77EV92PWSB80	200	4	5.5	485	0.49	17	10	145	FS14	60	1/2"	186	1415x560x1235	211	1525x610x1470
5.5 kW																
DARWIN-E 5.5-08	V51EX92PWSA87	-	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	110	600x550x780	122	720x670x970
DARWIN-E 5.5-10	V51EY92PWSA87	-	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	110	600x550x780	122	720x670x970
DARWIN-E 5.5-13	V51EZ92PWSA87	-	5.5	7.5	485	0.49	17	13	189	FS14	64	1/2"	110	600x550x780	122	720x670x970
DARWIN-E 5.5-08-270	V91EX92PWSA80	270	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	180	1540x560x1320	215	1720x750x1690
DARWIN-E 5.5-10-270	V91EY92PWSA80	270	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	180	1540x560x1320	215	1720x750x1690
DARWIN-E 5.5-08-270 D	V91EX92PWSB80	270	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	210	1540x560x1320	245	1720x750x1690
DARWIN-E 5.5-10-270 D	V91EY92PWSB80	270	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	210	1540x560x1320	245	1720x750x1690
DARWIN-E 5.5-13-270 D	V91EZ92PWSB80	270	5.5	7.5	485	0.49	17	13	189	FS14	64	1/2"	245	1540x560x1320	280	1720x750x1690
DARWIN-E 5.5-08-500	V83EX92PWSA80	500	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	250	1930x600x1420	291	2020x800x1690
DARWIN-E 5.5-10-500	V83EY92PWSA80	500	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	250	1930x600x1420	291	2020x800x1690
DARWIN-E 5.5-08-500 D	V83EX92PWSB80	500	5.5	7.5	720	0.72	25	8	116	FS14	64	1/2"	280	1930x600x1420	321	2020x800x1690
DARWIN-E 5.5-10-500 D	V83EY92PWSB80	500	5.5	7.5	650	0.65	23	10	145	FS14	64	1/2"	280	1930x600x1420	321	2020x800x1690

__M__ = Single-phase
__D__ = model with S-DRY refrigeration dryer with automatic condensate drain (filters excluded - see page 7).
Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
The data and results were measured in accordance with ISO 1217.
The sound level was measured in accordance with ISO 2151, with a tolerance of ±3 dB(A).

DARWIN-E
7.5-15 kW

P/N	Air receiver	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Con-nection	Net weight	Net dimensions	Gross weight	Gross dimensions
	ℓ	kW	HP	l/min	m³/min	cfm	bar	psi		dB(A)	G	kg	L x W x H (mm)	kg	L x W x H (mm)
ELECTRONIC - LOGIN Mini - star-delta start															
7.5 kW															
DARWIN-E 8-08	V60EA92PWSA87	-	7.5	10	1200	1.20	42	8	116	FS26	68	3/4"	178	820x680x960	193	940x770x1150
DARWIN-E 8-10	V60EB92PWSA87	-	7.5	10	950	0.95	34	10	145	FS26	68	3/4"	178	820x680x960	193	940x770x1150
DARWIN-E 8-13	V60EC92PWSA87	-	7.5	10	700	0.70	25	13	189	FS26	68	3/4"	178	820x680x960	193	940x770x1150
DARWIN-E 8-15	V60ED92PWSA87	-	7.5	10	670	0.67	24	15	218	FS26	68	3/4"	178	820x680x960	193	940x770x1150
DARWIN-E 8-08-270	V91EA92PWSA80	270	7.5	10	1200	1.20	42	8	116	FS26	68	3/4"	250	1530x680x1490	285	1720x750x1780
DARWIN-E 8-10-270	V91EB92PWSA80	270	7.5	10	950	0.95	34	10	145	FS26	68	3/4"	250	1530x680x1490	285	1720x750x1780
DARWIN-E 8-13-270	V91EC92PWSA80	270	7.5	10	700	0.70	25	13	189	FS26	68	3/4"	300	1530x680x1490	335	1720x750x1780
DARWIN-E 8-15-270	V91ED92PWSA80	270	7.5	10	670	0.67	24	15	218	FS26	68	3/4"	300	1530x680x1490	335	1720x750x1780
DARWIN-E 8-08-270 D	V91EA92PWSB80	270	7.5	10	1200	1.20	42	8	116	FS26	68	1"	285	1530x680x1490	320	1720x750x1780
DARWIN-E 8-10-270 D	V91EB92PWSB80	270	7.5	10	950	0.95	34	10	145	FS26	68	1"	285	1530x680x1490	320	1720x750x1780
DARWIN-E 8-13-270 D	V91EC92PWSB80	270	7.5	10	700	0.70	25	13	189	FS26	68	1"	335	1530x680x1490	370	1720x750x1780
DARWIN-E 8-15-270 D	V91ED92PWSB80	270	7.5	10	670	0.67	24	15	218	FS26	68	1"	335	1530x680x1490	370	1720x750x1780
DARWIN-E 8-08-500	V83EA92PWSA80	500	7.5	10	1200	1.20	42	8	116	FS26	68	3/4"	305	1950x680x1580	345	2070x800x1850
DARWIN-E 8-10-500	V83EB92PWSA80	500	7.5	10	950	0.95	34	10	145	FS26	68	3/4"	305	1950x680x1580	345	2070x800x1850
DARWIN-E 8-13-500	V83EC92PWSA80	500	7.5	10	700	0.70	25	13	189	FS26	68	3/4"	337	1950x680x1580	377	2070x800x1850
DARWIN-E 8-08-500 D	V83EA92PWSB80	500	7.5	10	1200	1.20	42	8	116	FS26	68	1"	340	1950x680x1580	380	2070x800x1850
DARWIN-E 8-10-500 D	V83EB92PWSB80	500	7.5	10	950	0.95	34	10	145	FS26	68	1"	340	1950x680x1580	380	2070x800x1850
DARWIN-E 8-13-500 D	V83EC92PWSB80	500	7.5	10	700	0.70	25	13	189	FS26	68	1"	362	1950x680x1580	402	2070x800x1850
11 kW															
DARWIN-E 11-08	V60EE92PWSA87	-	11	15	1650	1.65	58	8	116	FS26	69	3/4"	192	820x680x960	207	940x770x1150
DARWIN-E 11-10	V60EF92PWSA87	-	11	15	1500	1.50	53	10	145	FS26	69	3/4"	192	820x680x960	207	940x770x1150
DARWIN-E 11-13	V60EG92PWSA87	-	11	15	1150	1.10	41	13	189	FS26	69	3/4"	192	820x680x960	207	940x770x1150
DARWIN-E 11-15	V60EH92PWSA87	-	11	15	970	0.97	34	15	218	FS26	69	3/4"	192	820x680x960	207	940x770x1150
DARWIN-E 11-08-270	V91EE92PWSA80	270	11	15	1650	1.65	58	8	116	FS26	69	3/4"	265	1530x680x1490	300	1720x750x1780
DARWIN-E 11-10-270	V91EF92PWSA80	270	11	15	1500	1.50	53	10	145	FS26	69	3/4"	265	1530x680x1490	300	1720x750x1780
DARWIN-E 11-13-270	V91EG92PWSA80	270	11	15	1150	1.10	41	13	189	FS26	69	3/4"	315	1530x680x1490	350	1720x750x1780
DARWIN-E 11-15-270	V91EH92PWSA80	270	11	15	970	0.97	34	15	218	FS26	69	3/4"	315	1530x680x1490	350	1720x750x1780
DARWIN-E 11-08-270 D	V91EE92PWSB80	270	11	15	1650	1.65	58	8	116	FS26	69	1"	300	1530x680x1490	335	1720x750x1780
DARWIN-E 11-10-270 D	V91EF92PWSB80	270	11	15	1500	1.50	53	10	145	FS26	69	1"	300	1530x680x1490	335	1720x750x1780
DARWIN-E 11-13-270 D	V91EG92PWSB80	270	11	15	1150	1.10	41	13	189	FS26	69	1"	350	1530x680x1490	385	1720x750x1780
DARWIN-E 11-15-270 D	V91EH92PWSB80	270	11	15	970	0.97	34	15	218	FS26	69	1"	350	1530x680x1490	385	1720x750x1780
DARWIN-E 11-08-500	V83EE92PWSA80	500	11	15	1650	1.65	58	8	116	FS26	69	3/4"	325	1950x680x1580	365	2070x800x1850
DARWIN-E 11-10-500	V83EF92PWSA80	500	11	15	1500	1.50	53	10	145	FS26	69	3/4"	325	1950x680x1580	365	2070x800x1850
DARWIN-E 11-13-500	V83EG92PWSA80	500	11	15	1150	1.10	41	13	189	FS26	69	3/4"	350	1950x680x1580	390	2070x800x1850
DARWIN-E 11-08-500 D	V83EE92PWSB80	500	11	15	1650	1.65	58	8	116	FS26	69	1"	355	1950x680x1580	395	2070x800x1850
DARWIN-E 11-10-500 D	V83EF92PWSB80	500	11	15	1500	1.50	53	10	145	FS26	69	1"	355	1950x680x1580	395	2070x800x1850
DARWIN-E 11-13-500 D	V83EG92PWSB80	500	11	15	1150	1.10	41	13	189	FS26	69	1"	380	1950x680x1580	420	2070x800x1850
15 kW															
DARWIN-E 15-08	V60EM92PWSA87	-	15	20	2070	2.07	73	8	116	FS50	68	3/4"	220	820x680x960	235	940x770x1150
DARWIN-E 15-10	V60EN92PWSA87	-	15	20	1900	1.90	67	10	145	FS50	68	3/4"	220	820x680x960	235	940x770x1150
DARWIN-E 15-13	V60EO92PWSA87	-	15	20	1410	1.41	50	13	189	FS50	68	3/4"	220	820x680x960	235	940x770x1150
DARWIN-E 15-15	V60EP92PWSA87	-	15	20	1380	1.38	49	15	218	FS50	68	3/4"	220	820x680x960	235	940x770x1150
DARWIN-E 15-08-500	V83EM92PWSA80	500	15	20	2070	2.07	73	8	116	FS50	68	3/4"	355	1950x680x1580	395	2070x800x1850
DARWIN-E 15-10-500	V83EN92PWSA80	500	15	20	1900	1.90	67	10	145	FS50	68	3/4"	355	1950x680x1580	395	2070x800x1850
DARWIN-E 15-13-500	V83EO92PWSA80	500	15	20	1410	1.41	50	13	189	FS50	68	3/4"	380	1950x680x1580	420	2070x800x1850
DARWIN-E 15-15-500	V83EP92PWSA80	500	15	20	1380	1.38	49	15	218	FS50	68	3/4"	380	1950x680x1580	420	2070x800x1850
DARWIN-E 15-08-500 D	V83EM92PWSB80	500	15	20	2070	2.07	73	8	116	FS50	68	1"	390	1950x680x1580	430	2070x800x1850
DARWIN-E 15-10-500 D	V83EN92PWSB80	500	15	20	1900	1.90	67	10	145	FS50	68	1"	390	1950x680x1580	430	2070x800x1850
DARWIN-E 15-13-500 D	V83EO92PWSB80	500	15	20	1410	1.41	50	13	189	FS50	68	1"	415	1950x680x1580	455	2070x800x1850
DARWIN-E 15-15-500 D	V83EP92PWSB80	500	15	20	1380	1.38	49	15	218	FS50	68	1"	415	1950x680x1580	455	2070x800x1850

D = model with S-DRY refrigeration dryer with automatic condensate drain (filters excluded - see page 7).
Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
The data and results were measured in accordance with ISO 1217.
The sound level was measured in accordance with ISO 2151, with a tolerance of ±3 dB(A).

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

DARWIN-E 18.5-75 kW

Compact, silent and highly reliable.
Cooling circuit with thermostatic valve and encapsulated radiator, ensuring operating temperatures are always kept under control.

Power System's new DARWIN-E series screw compressors represent a high-performance solution designed for the most demanding applications.
The entire range has been developed to ensure continuity of operation, reduced energy consumption, silent operation, low maintenance costs and very simple installation and use.
The DARWIN-E range includes models with powers from 18.5 to 75 kW and working pressures between 8 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.

IE3 Premium Efficiency MOTOR



DARWIN-E 18.5 - 22
18.5 - 22 kW
ELECTRONIC - LOGIN



DARWIN-E 32
30 kW
ELECTRONIC - LOGIN

POWER SYSTEM AIR COMPRESSORS NOT JUST AIR.

The DARWIN-E range, with power outputs from 18.5 to 75 kW, represents the best solution for the industrial sector in terms of reliability and long operating life.

Size	Power (kW)	Model	Floor mounted	Air-end	Electronic controller	Thermostatic valve	Electric motor efficiency	Fixed speed
1	**18.5**	**DARWIN-E 18.5**	•	FS50	LOGIN	•	IE3	•
	22	**DARWIN-E 22**	•	FS50	LOGIN	•	IE3	•
2	**30**	**DARWIN-E 32**	•	FS140	LOGIN	•	IE3	•
3	**37**	**DARWIN-E 38**	•	FS140	LOGIN	•	IE3	•
	45	**DARWIN-E 45**	•	FS140	LOGIN	•	IE3	•
4	**55**	**DARWIN-E 56**	•	FS270	LOGIN	•	IE3	•
	75	**DARWIN-E 75**	•	FS270	LOGIN	•	IE4	•









DARWIN-E 38 - 45
37 - 45 kW

ELECTRONIC - LOGIN



DARWIN-E 56 - 75*
55 - 75 kW

ELECTRONIC - LOGIN

* *DARWIN-E 75 kW models are equipped with even more efficient electric motors, in the "IE4 Super Premium Efficiency" energy efficiency class.*

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

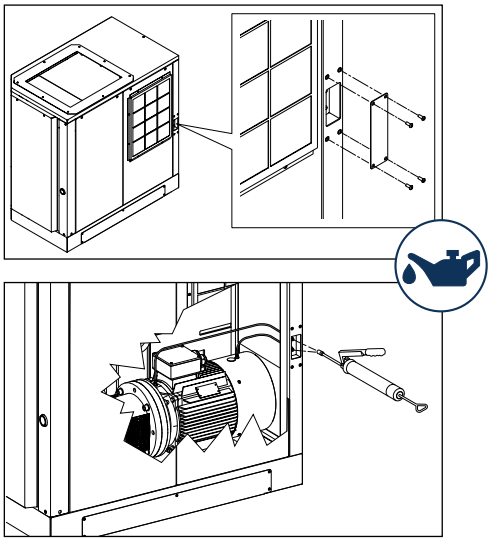
DARWIN-E 18.5-75 kW



LOGIN
Electronic controller

External greasing points

The greasing points for the main electric motor bearings are accessible from the outside of the compressor, allowing for safe lubrication, even with the machine running.



Thermostatic valve

In the 18.5 to 75 kW models, the oil cooling circuit is controlled by the thermostatic valve, guaranteeing ideal temperature.

Efficient transmission

The Poly-V belt transmission ensures excellent power transmission.
The unique belt tensioning system ensures reliability and constant performance.

Pre-filtration panels

On all models from 18.5 to 75 kW, the ventilation circuit is completed by pre-filter panels that separate incoming dust, protecting internal components for a longer service life.



Air filter
The two stage filter cartridge allows use in dusty environments.

Oil filter and oil separator filter
Both items are 'spin-on' design providing efficiency and simple maintenance.

Minimum pressure valve
Made of corrosion-resistant materials to ensure operation even in extreme conditions.

Intake regulator
Our own production, the intake regulator controls operation of the compressor to ensure minimum pressure during idle operation, resulting in lower power consumption.

Fan and radiator inspection ports
In the 18.5 to 75 kW models, the compartments housing the fans are accessible via two inspection doors which also allow for counterflow cleaning of the radiator.

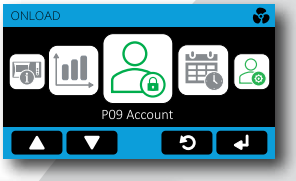
Simplified maintenance
Fast and simple routine maintenance thanks to the large removable panels offering unhindered access to the internal components.

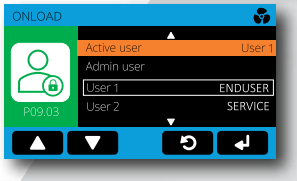
Cooling system
The radiator and radial fan are mounted in a dedicated compartment that maximizes the thrust of the outgoing air and allows the compressor to be used even with the doors open.



DARWIN-E 75

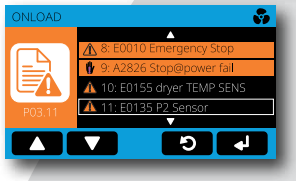
LOGIN
COMPRESSOR CONTROLLER





Efficiency that is always under control

Installed on DARWIN-E models from 18.5 to 75 kW, the new LOGIN controller introduces new software functions to enhance diagnostic controls, thereby guaranteeing excellent performance in all conditions, facilitating remote control and multi-compressor management.





Intelligent control

All of DARWIN-E's functions are entirely managed by the LOGIN electronic controller, which constantly monitors the compressor status 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 prompt operator intervention. The integrated connectivity with remote monitoring (optional), makes possible to get complete information on the compressor status remotely.

Compressor rotation management

Thanks to the 'ISC' system (Internal Sequencing of Compressors), up to 8 different compressors (fixed and/or variable speed) can be connected simultaneously, with 'master-slave' logic. The LOGIN controller features an RS485 port with an integrated Modbus protocol for communication with external devices.

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.

Multilingual management

It is possible to select the local language or any one of 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).

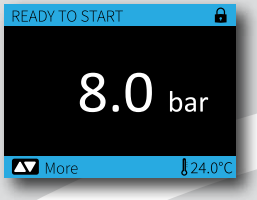
Designed for Industry 4.0

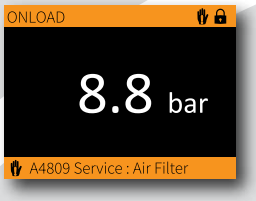
POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

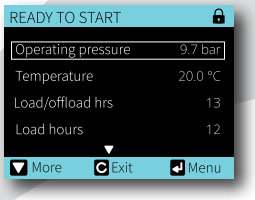
MINI LOGIN
COMPRESSOR CONTROLLER

Intuitive and efficient.

**Installed on the 4 to 15 kW DARWIN-E series, the LOGIN Mini is a digital electronic controller featuring six buttons for complete control of all compressor functions.
The multilingual colour display, intuitive and complete, displays extended text.**









- Menu navigation is simplified by icons displayed on the bottom navigation bar.
- Pressure is continuously monitored via a dedicated sensor and compared with the setpoints of the controller, ensuring optimal compressor operation.
- The simple and effective motor control monitors both temperature and running/idling cycles, ensuring all operational parameters are met and maximising reliability.
- Thanks to the native ISC function (Internal Sequencing of Compressors), the controller can manage up to 8 units in master/slave mode.
- The LOGIN Mini features an RS485 port with an integrated Modbus protocol for communication with external devices.
- Configurable auto-restart and remote ON/OFF complete the LOGIN Mini's extensive feature set.

Intuitive interface
The display features two permanently visible bars: a status bar at the top and a navigation bar at the bottom.
This allows the user to view the status of the machine and the active functions at any time.

Multilingual management
It is possible to select the local language or any one of 20 pre-installed languages.

Multi-compressor management
Allows simultaneous management of up to 8 machines, in master/slave mode.

Multicolour display
All operating parameters are shown on the 2.4" colour display.

Remote control
Allows compressor remote control.

Designed for Industry 4.0

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

All of the data that you need

SMS LOGIN COMPRESSOR CONTROLLER 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.

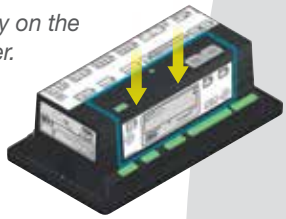




Preventive and targeted maintenance

Through 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.

SMS 2.0 is installed directly on the rear of the LOGIN controller.
CODE C005560002SGL



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.



DARWIN-E
18.5-75 kW

P/N	Power		Air outflow rate			Max. pressure		Air-end	Sound level	Con-nection	Net weight	Net dimensions	Gross weight	Gross dimensions
	kW	HP	l/min	m³/min	cfm	bar	psi		dB(A)	G	kg	L x W x H (mm)	kg	L x W x H (mm)
ELECTRONIC - LOGIN														
18.5 kW														
DARWIN-E 18.5-08	V60HS92PWSA87	18.5	25	2650	2.65	94	8	116	FS50	66	3/4"	510	1240x950x1380	560	1350x1100x1530
DARWIN-E 18.5-10	V60HT92PWSA87	18.5	25	2350	2.35	83	10	145	FS50	66	3/4"	510	1240x950x1380	560	1350x1100x1530
DARWIN-E 18.5-13	V60HU92PWSA87	18.5	25	1690	1.69	60	13	189	FS50	66	3/4"	510	1240x950x1380	560	1350x1100x1530
DARWIN-E 18.5-15	V60HV92PWSA87	18.5	25	1620	1.62	57	15	218	FS50	66	3/4"	510	1240x950x1380	560	1350x1100x1530
22 kW														
DARWIN-E 22-08	V60HW92PWSA87	22	30	3300	3.3	116	8	116	FS50	68	3/4"	520	1240x950x1380	570	1350x1100x1530
DARWIN-E 22-10	V60HX92PWSA87	22	30	3000	3.0	106	10	145	FS50	68	3/4"	520	1240x950x1380	570	1350x1100x1530
DARWIN-E 22-13	V60HY92PWSA87	22	30	2050	2.05	72	13	189	FS50	68	3/4"	520	1240x950x1380	570	1350x1100x1530
DARWIN-E 22-15	V60HZ92PWSA87	22	30	1910	1.91	67	15	218	FS50	68	3/4"	520	1240x950x1380	570	1350x1100x1530
30 kW														
DARWIN-E 32-08	V60AI92PWSA87	30	40	4800	4.8	169	8	116	FS140	70	1" 1/2	860	1600x1100x1450	910	1710x1210x1600
DARWIN-E 32-10	V60IB92PWSA87	30	40	4400	4.4	155	10	145	FS140	70	1" 1/2	860	1600x1100x1450	910	1710x1210x1600
DARWIN-E 32-13	V60IC92PWSA87	30	40	3400	3.40	120	13	189	FS140	70	1" 1/2	860	1600x1100x1450	910	1710x1210x1600
DARWIN-E 32-15	V60ID92PWSA87	30	40	3150	3.15	111	15	218	FS140	70	1" 1/2	860	1600x1100x1450	910	1710x1210x1600
37 kW														
DARWIN-E 38-08	V60IE92PWSA87	37	50	6000	6.00	212	7.5	109	FS140	68	1" 1/2	920	1700x1200x1620	975	1810x1310x1770
DARWIN-E 38-10	V60IF92PWSA87	37	50	5400	5.4	191	10	145	FS140	68	1" 1/2	920	1700x1200x1620	975	1810x1310x1770
DARWIN-E 38-13	V60IG92PWSA87	37	50	4000	4.00	141	13	189	FS140	68	1" 1/2	920	1700x1200x1620	975	1810x1310x1770
45 kW														
DARWIN-E 45-08	V60IJ92PWSA87	45	60	7300	7.3	258	7.5	109	FS140	72	1" 1/2	1000	1700x1200x1620	1055	1810x1310x1770
DARWIN-E 45-10	V60IK92PWSA87	45	60	6600	6.6	233	10	145	FS140	72	1" 1/2	1000	1700x1200x1620	1055	1810x1310x1770
DARWIN-E 45-13	V60IL92PWSA87	45	60	5700	5.7	201	13	189	FS140	72	1" 1/2	1000	1700x1200x1620	1055	1810x1310x1770
55 kW														
DARWIN-E 56-08	V60IM92PWSA87	55	75	9100	9.1	321	7.5	109	FS270	74	2"	1520	1900x1350x1950	1575	2010x1410x2100
DARWIN-E 56-10	V60IT92PWSA87	55	75	8500	8.5	300	10	145	FS270	74	2"	1520	1900x1350x1950	1575	2010x1410x2100
DARWIN-E 56-13	V60IO92PWSA87	55	75	6590	6.59	233	13	189	FS270	74	2"	1520	1900x1350x1950	1575	2010x1410x2100
75 kW														
DARWIN-E 75-08	V60IP92PWSA87	75	100	11500	11.5	406	7.5	109	FS270	74	2"	1720	1900x1350x1950	1795	2010x1410x2100
DARWIN-E 75-10	V60IQ92PWSA87	75	100	10300	10.3	364	10	145	FS270	74	2"	1720	1900x1350x1950	1795	2010x1410x2100
DARWIN-E 75-13	V60IR92PWSA87	75	100	8300	8.30	293	13	189	FS270	74	2"	1720	1900x1350x1950	1795	2010x1410x2100

Reference conditions: air intake temperature 20°C (68°F) – atmospheric pressure 1 bar (14.5 p.s.i.).
The data and results were measured in accordance with ISO 1217.
The sound level was measured in accordance with ISO 2151, with a tolerance of ±3 dB(A).

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

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 programmes, 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 24 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 as to guarantee them up to 60 months!
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 portal on the website **powersystemcompressors.com**.

TRUST
EXTENDED WARRANTY

POWER SYSTEM
AIR COMPRESSORS
NOT JUST AIR.

... and specific lubricants

RotarECOFLUID 46 cSt mineral oil

C600000023	1 x 5-litre can (4.385 kg)
C600000021	1 x 20-litre can (17.36 kg)
C600000022	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

C600000024A	1 x 5-litre can (4.37 kg)
C600000007A	1 x 19-litre can (16 kg)
C600000012A	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

C600000025A	1 x 5-litre can (4.20 kg)
C600000016A	1 x 19-litre can (18.5 kg)
C600000017A	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 hand-book / 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 ARE NOT INCLUDED IN LONG LIFE KITS).





FSN

ORIGINAL SPARE PARTS

You can download the Long Life Kit catalogues from the **powersystemcompressors.com** website and see the exploded diagrams and spare parts list online. They are continuously updated for each compressor model.

The models and characteristics described in this catalogue may be subject to change without notice. The images shown may vary from the actual products.

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