

Масляные пластинчато-роторные насосы одноступенчатые nES, Ex nES

Технические характеристики

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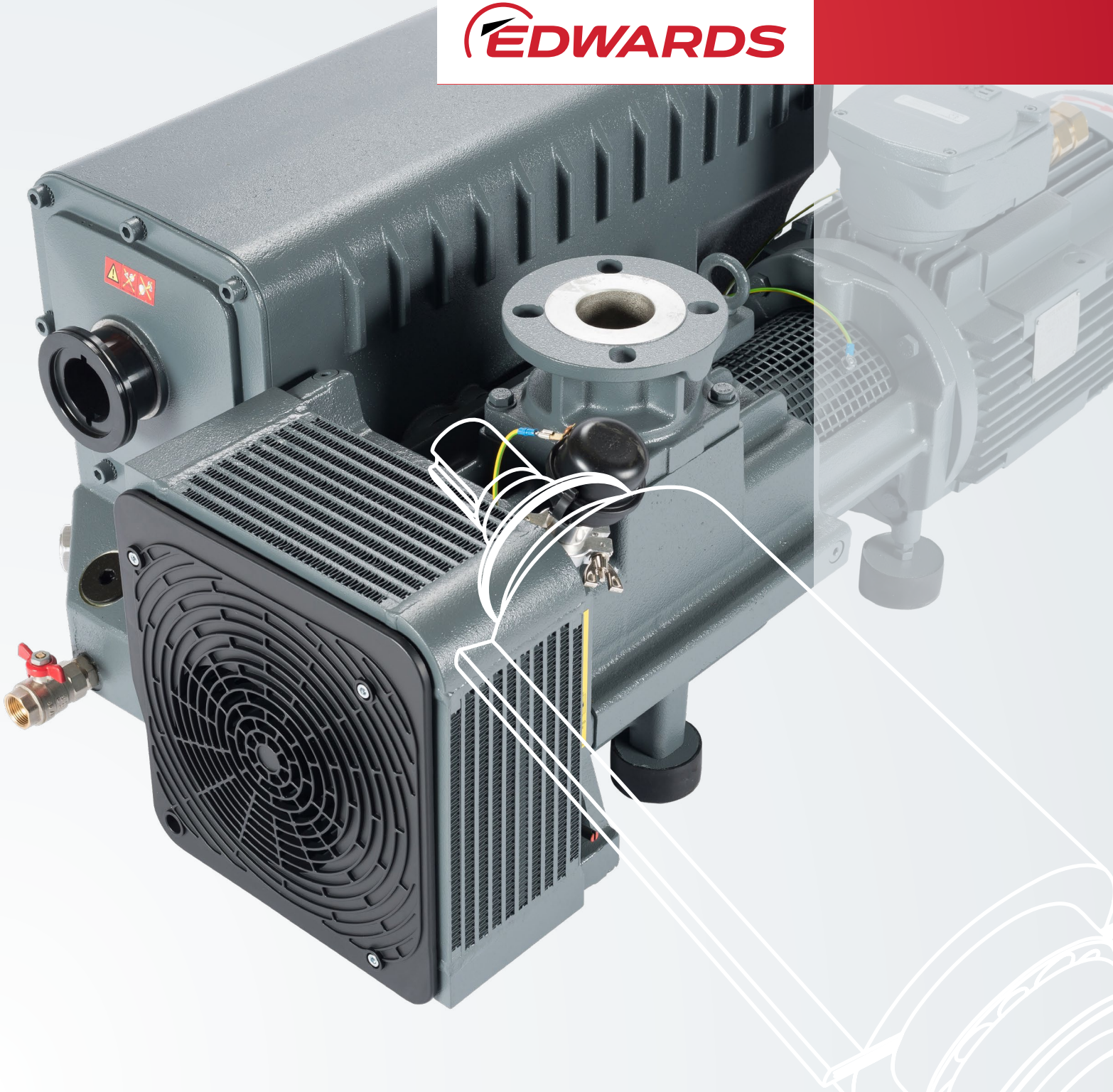
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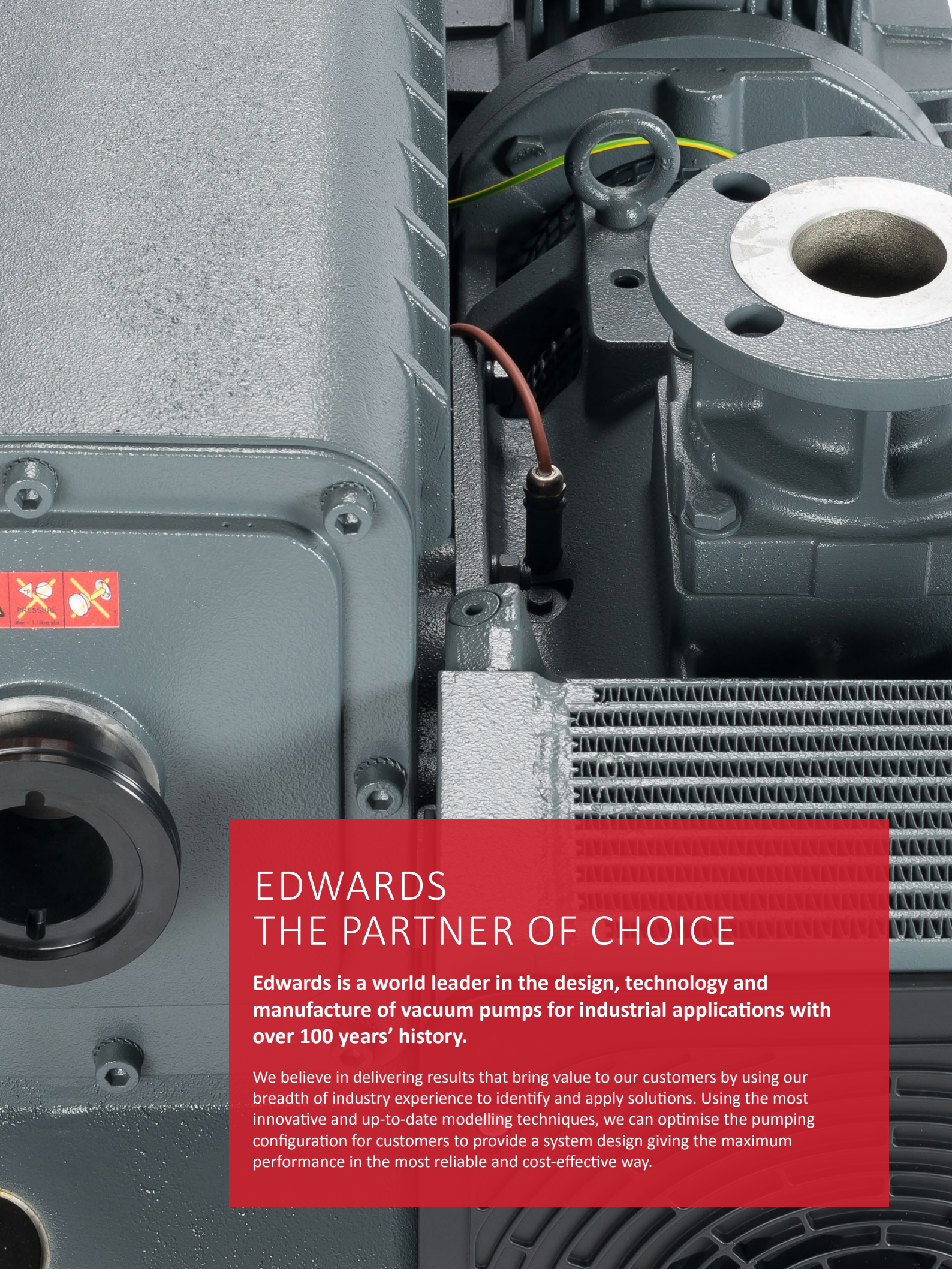
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nES SINGLE STAGE EX SERIES
ROTARY VANE PUMPS FOR
EXPLOSIVE ENVIRONMENTS

 **EDWARDS**





EDWARDS THE PARTNER OF CHOICE

Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 100 years' history.

We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions. Using the most innovative and up-to-date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way.

nES SINGLE STAGE EX SERIES

NEXT GENERATION SINGLE STAGE ROTARY VANE PUMPS

The Edwards nES single stage EX series represents the next advance in single stage oil sealed rotary vane vacuum pumps for use in explosive environments.

EXPLOSIVE ENVIRONMENTS

Edwards nES single stage EX series rotary vane pumps have been specifically designed to be capable of handling gases from a potentially explosive atmosphere and to operate in environments where a potentially explosive atmosphere can be present. Pumps have been certified under the ATEX directive 2014/34/EU.

nES single stage EX series pumps are equipped with a variety of sensors:



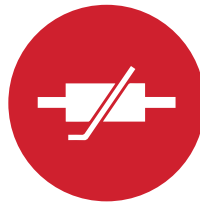
PUMP
TEMPERATURE



PRESSURE IN
OIL CASING



OIL LEVEL



PTC MOTOR
THERMISTORS

nES single stage EX series pumps are also supplied with:

- ATEX rated exhaust mist filter
- FPM seals
- Oil filter bypass
- ATEX rated motor and coupling
- Approved oil
- Gas ballast facility

BENEFITS

1. PROTECTION

Equipment with a range of sensors providing protection in-line in with ATEX directive 2014/34/EU.

2. INTERNAL MECHANISM

Designed for minimal hot spots ensuring lowest possible temperature class. The pump mechanism is designed with attention to detail that guarantees a class-leading ultimate vacuum level without the pressure fluctuations.

3. INTEGRATED OIL MIST FILTER

The improved integrated exhaust mist filter is effective in preventing oil mist from being exhausted into the environment. It is user serviceable and gives the pump a much cleaner operation with low maintenance.

4. AIR COOLING

The pump is provided with an efficient air flow management system that enables a low operating temperature and increased oil life, without the need for water cooling.

5. OIL RETURN SYSTEM

The enhanced oil return system gives an excellent vacuum stability. Use of Edwards Ultragrade Extend 110 Oil not only gives an improved vacuum performance but also enables the pump to withstand high operating temperatures without oil degradation thus extending intervals between oil changes.

6. INLET CONNECTION

Inlet connections are compatible with DN ISO and ANSI flanges providing the user with installation flexibility.

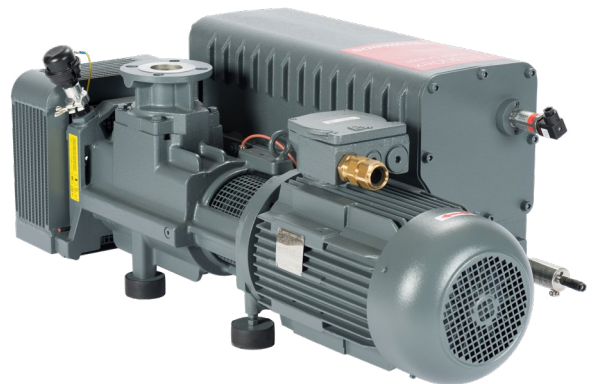
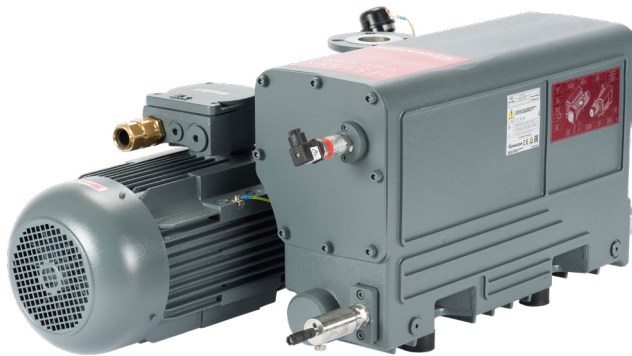
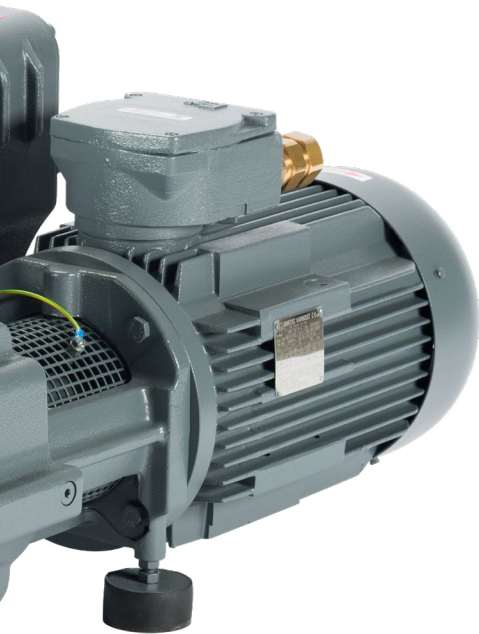
7. DIRECT DRIVE TECHNOLOGY

Motors are certified to ATEX directive 2014/34/EU. Variants are also available for the US market.



ADVANTAGES

- Built-in sensors and monitoring providing added protection
- Suitable for a wide range of applications
- High pumping speed at low pressures
- Stable vacuum performance with no pressure fluctuation
- Good condensable vapour handling capability with gas ballast
- High reliability through proven technology
- Low noise and vibration
- Space efficient through compact design
- Optimised oil return system and integrated exhaust mist filter
- Efficient air cooled motor
- Low and easy maintenance - therefore high productivity



APPLICATIONS

The nES single stage EX series pumps are suitable for use in a broad range of applications where protection in explosive environments is required.

Few applications areas where an appropriate level of protection is required:

- Chemical
- Pharmaceutical
- Sterilising with ethylene oxide
- Recovery of air conditioning gases
- Degassing of power plant alternator oil
- Automotive
- Gas vapour recovery
- Gas bottle filling



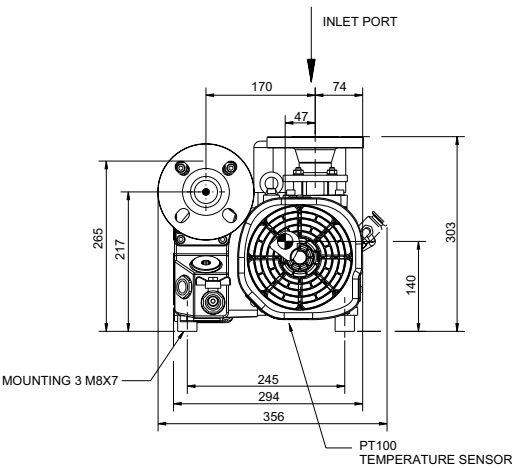
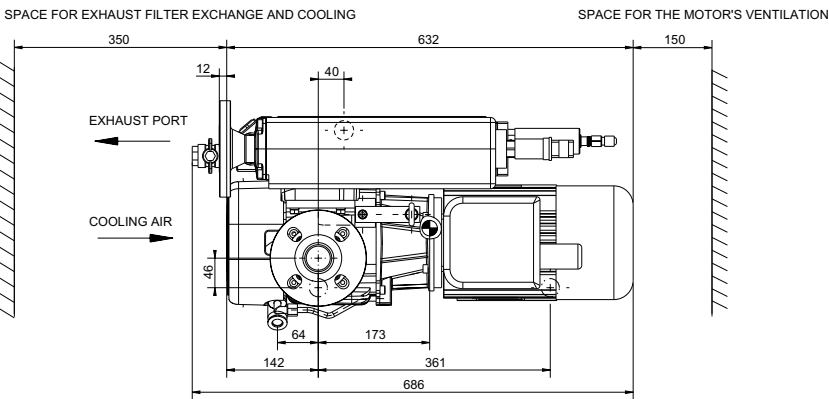
TECHNICAL DATA

	Units	nES40ex	nES65ex	nES100ex	nES200ex	nES300ex	nES630ex
Maximum displacement (50 Hz)	m ³ h ⁻¹ / cfm	44.0 / 25.9	59.0 / 34.8	98.0 / 57.4	180 / 106	280 / 165	700 / 412
Maximum displacement (60 Hz)	m ³ h ⁻¹ / cfm	53.0 / 31.2	71.0 / 41.8	117 / 68.9	220 / 130	340 / 200	-
Pumping Speed (50 Hz)	m ³ h ⁻¹ / cfm	38.5 / 22.7	54.0 / 31.8	87.5 / 51.5	170 / 100	240 / 141	640 / 377
Pumping Speed (60 Hz)	m ³ h ⁻¹ / cfm	47.0 / 27.7	64.0 / 37.7	105 / 61.8	200 / 118	290 / 171	-
Ultimate vacuum (total pressure) no gas ballast	mbar / torr	0.5 / 0.4	0.5 / 0.4	0.5 / 0.4	0.15 / 0.13	0.15 / 0.13	0.15 / 0.13
Ultimate vacuum (total pressure) with gas ballast	mbar / torr	1.5 / 1.1	1.5 / 1.1	1.5 / 1.1	0.7 / 0.5	0.7 / 0.5	0.7 / 0.5
Inlet connection	ISO / ANSI	DN40 / ANSI 1"1/2	DN40 / ANSI 1"1/2	DN40 / ANSI 1"1/2	DN50 / ANSI 2"	DN50 / ANSI 2"	DN100 ISO-K / ANSI 4"
Outlet connection	ISO / ANSI	DN40 / ANSI 1"1/2	DN40 / ANSI 1"1/2	DN40 / ANSI 1"1/2	DN50 / ANSI 2"	DN50 / ANSI 2"	DN100 ISO-K / ANSI 4"
Max permitted outlet pressure	bar (abs)	1.15	1.15	1.15	1.15	1.15	1.15
Max water vapour pumping rate (50 Hz)	kg h ⁻¹ / lb h ⁻¹	0.76 / 0.80	1.0 / 1.1	1.60 / 1.69	3.4 / 3.6	1.3 / 1.4	17 / 18
Max water vapour pumping rate (60 Hz)	kg h ⁻¹ / lb h ⁻¹	0.90 / 0.95	1.25 / 1.32	1.70 / 1.80	5.4 / 5.7	1.8 / 1.9	-
Dimensions (L, W, H)	mm	686 / 356 / 303	748 / 386 / 349	810 / 434 / 319	1084 / 535 / 435	1143 / 573 / 450	1568 / 989 / 740
Weight	kg / lb	67 / 148	86 / 190	104 / 230	142 / 313	244 / 539	695 / 1534
Motor Protection rating		IP55	IP55	IP55	IP55	IP55	IP65
Motor Power (50 Hz)	kW / hp	1.5 / 2.0	2.2 / 3.0	3.0 / 5.0	5.5 / 8	7.5 / 10	18.5 / 26
Motor Power (60 Hz)	kW / hp	1.8 / 3.0	2.6 / 4.0	3.6 / 6.0	6.6 / 10	9 / 13	-
Noise level (50 Hz)	dB(A)	58	60	61	69	72	72
Noise level (60 Hz)	dB(A)	60	64	64	73	76	-
Oil Refill Capacity	litre	1	2	2	5 - 9	8.5–11.5	20 - 23
Recommended oil	Ultragrade Endurance Extend 110						

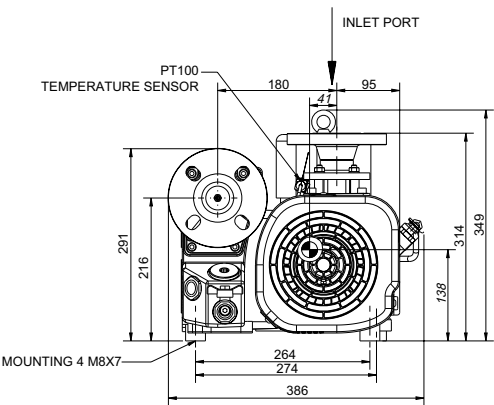
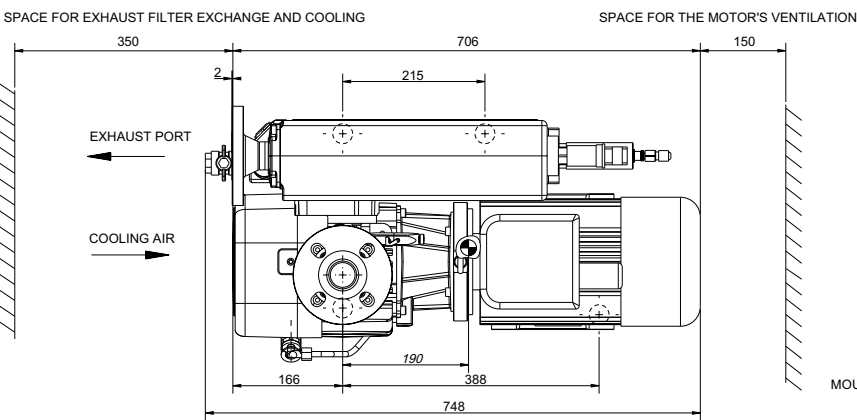


DRAWINGS AND DIMENSIONS

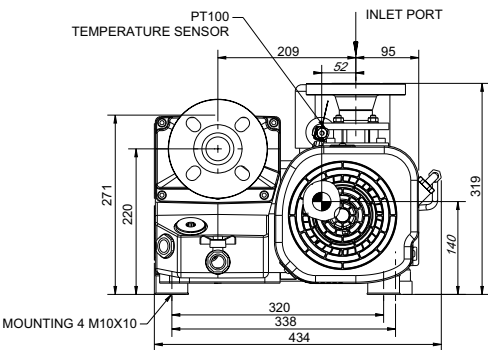
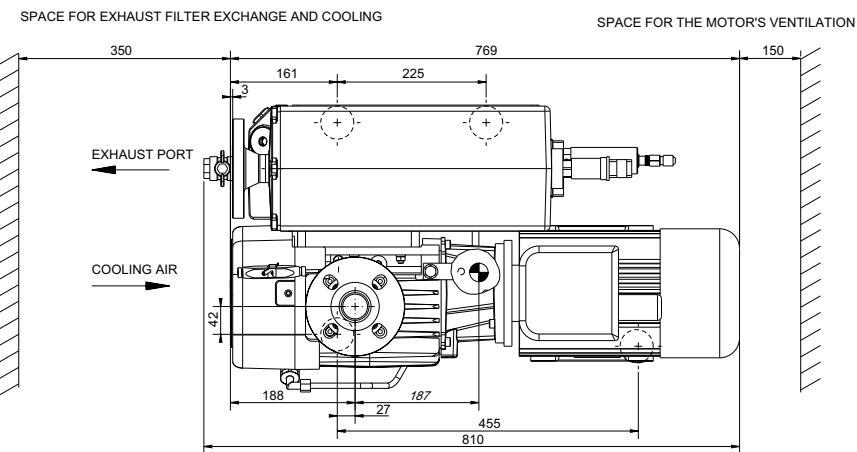
nES40ex



nES65ex

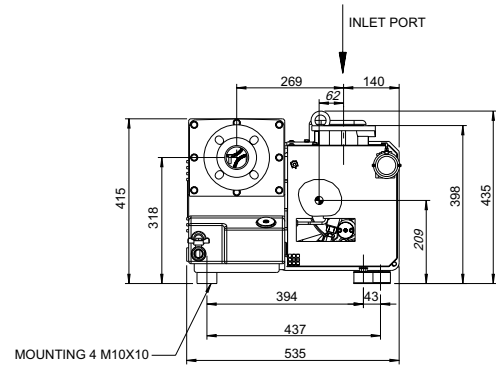
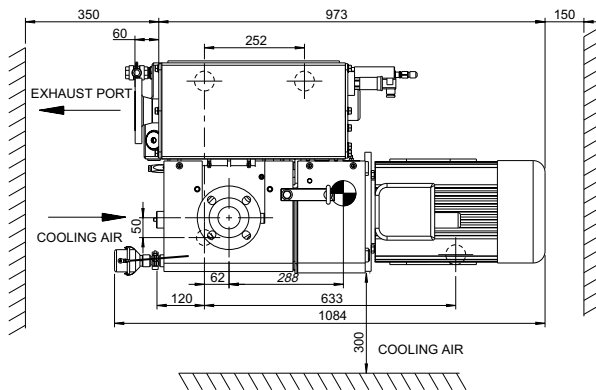


nES100ex



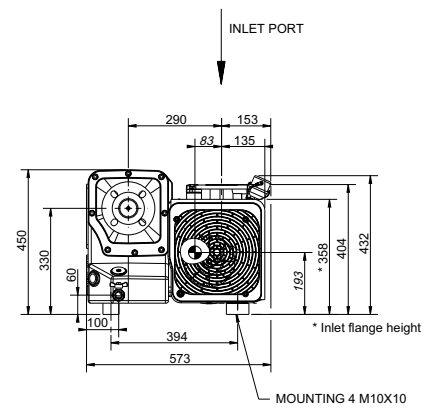
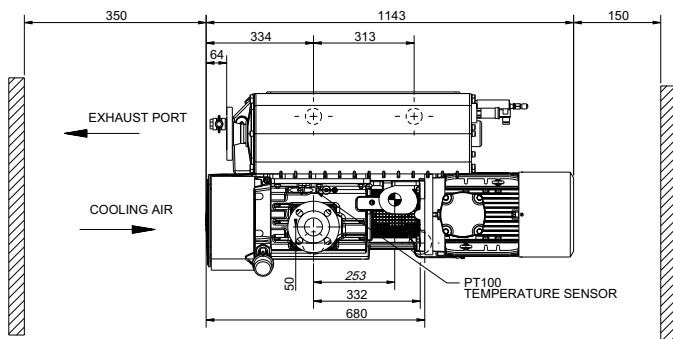
nES200ex

SPACE FOR EXHAUST FILTER EXCHANGE AND COOLING SPACE FOR THE MOTOR'S VENTILATION



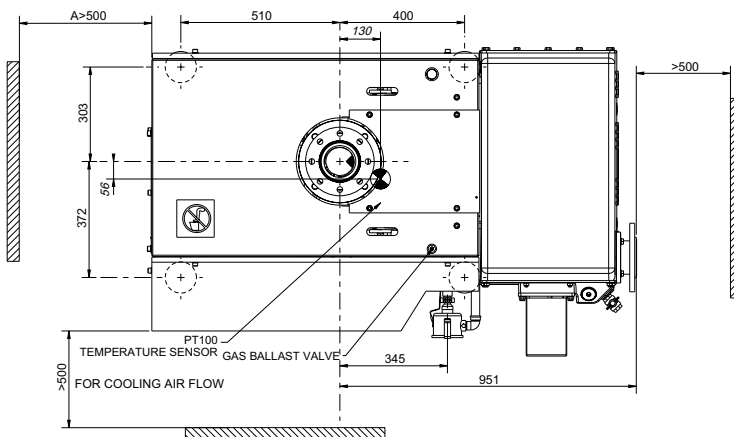
nES300ex

SPACE FOR EXHAUST FILTER EXCHANGE AND COOLING SPACE FOR THE MOTOR'S VENTILATION

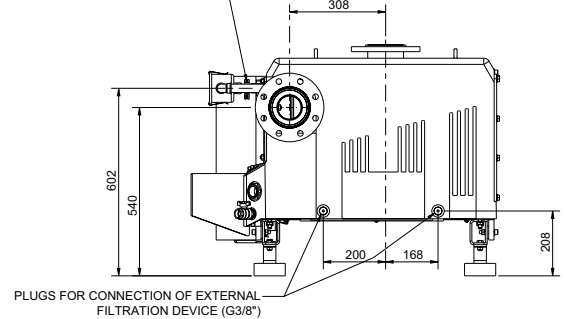


nES630ex

A: SPACE TO ACCESS TO ELECTRICAL CONNECTION

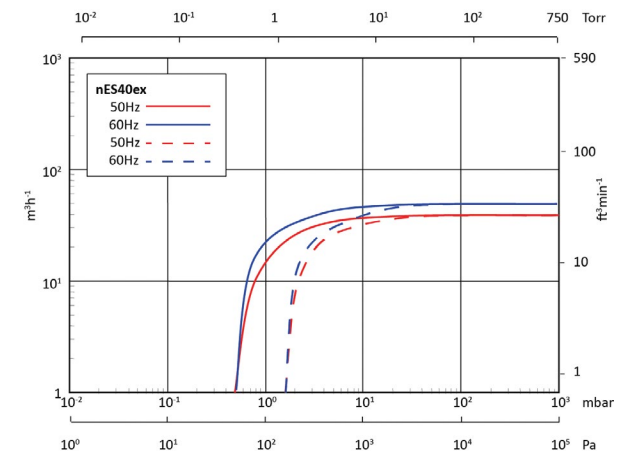


16 KF GASBALLAST CONNECTION

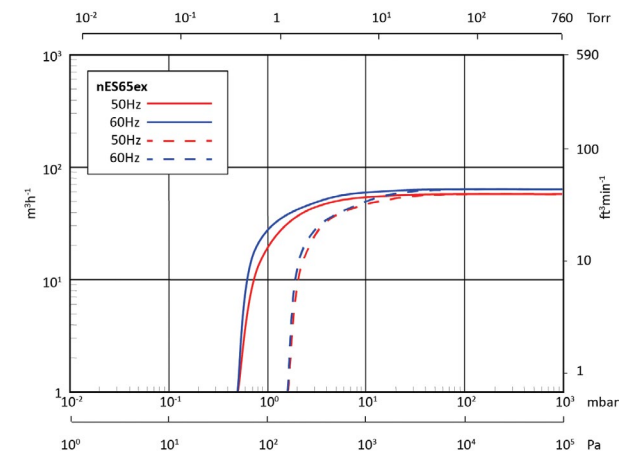


PERFORMANCE CURVES

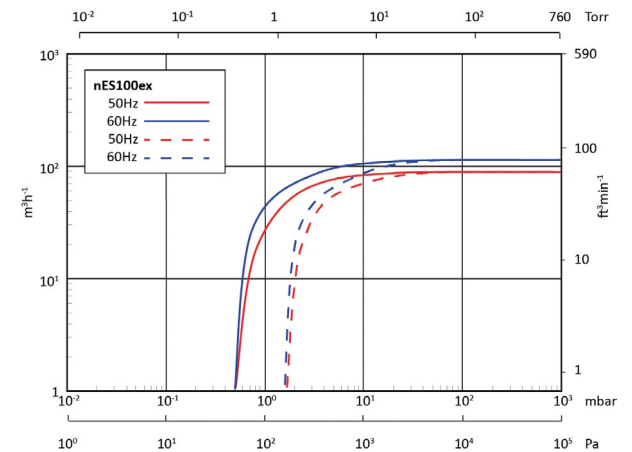
nES40ex



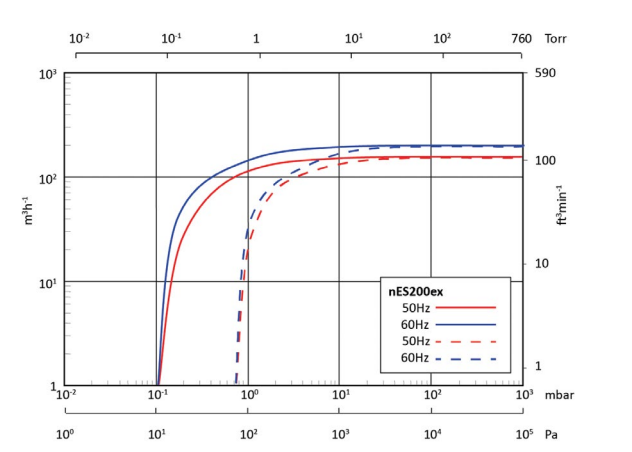
nES65ex



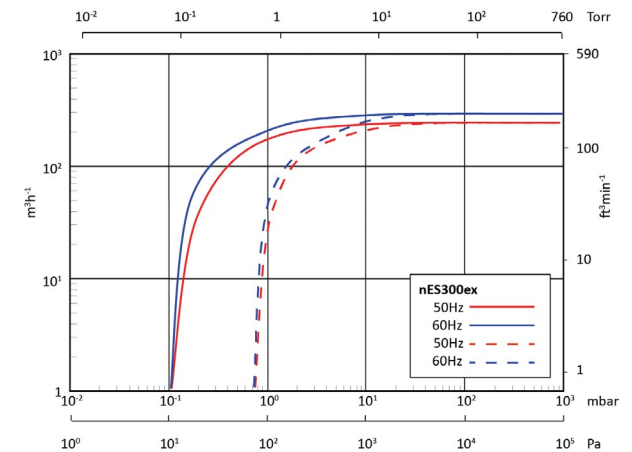
nES100ex



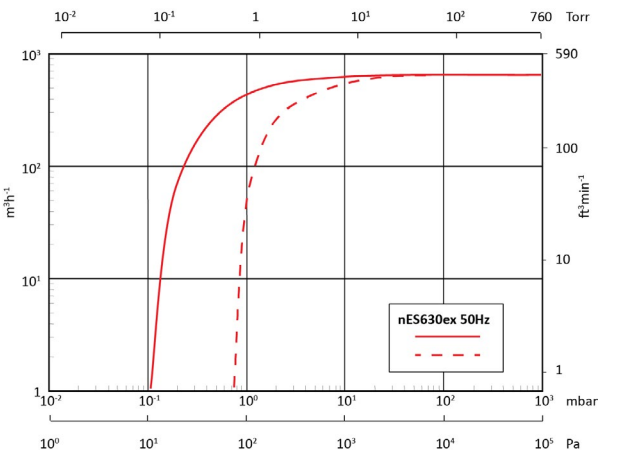
nES200ex



nES300ex



nES630ex



SERVICE AND SUPPORT

nES single stage EX series pumps are designed with a number of features which enable both routine maintenance to be conducted with minimal specialised tooling and knowledge. Scheduled routine maintenance shall include activities deemed beneficial to the continued performance and longevity of the product. All work must be done by suitably trained ATEX personnel. Before any maintenance operations are carried out on the pump, it should be ensured that the pump and its surroundings are free from flammable atmospheres and dust deposits.

We provide the following fast and effective service solutions for nES single stage EX series pumps.

- Our field service teams carry out essential maintenance, repair and commissioning service at your site. We invest in the tools, training and inventory that enable our teams of service engineers to deliver quality service in a safe and consistent manner. We can assist site staff in performing routine maintenance or troubleshoot a specific problem.
- We also support module exchange to facilitate rapid and cost effective turnaround, and minimise disruption to installed and configured systems. We maintain comprehensive inventory of service exchange products. Every pump has been tested and is ready for immediate installation.
- Alternatively you can return the pump to Edwards STC for overhaul as required.

If you wish to conduct more complex maintenance or overhaul tasks it is necessary to be trained by fully qualified Edwards engineers and be supplied with the correct maintenance and inspection tooling.

- Dedicated spares kits containing everything required in one simple package for maintenance.
- Low cost dedicated tooling to perform removal and replacement of the critical bearing and shaft seals.

ORDERING INFORMATION

nES single stage EX series: ATEX Category 2

Compliant to ATEX Directive 2014/34/EU

Model	Motor rating	ATEX Category 2	Part Number
nES40ex	230 & 400 V +- 10 %; 50 Hz and 460 V +- 10 %; 60 Hz. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 2 G IIC T4 (10 <Ta< 40 °C) X	A35118940
nES65ex	230 & 400 V +- 10 %; 50 Hz and 460 V +- 10 %; 60 Hz. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 2 G IIC T4 (10 <Ta< 40 °C) X	A35318940
nES100ex	230 & 400 V +- 10 %; 50 Hz and 460 V +- 10 %; 60 Hz. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 2 G IIC T4 (10 <Ta< 40 °C) X	A35418940
nES200ex	230 & 400 V +- 10 %; 50 Hz and 460 V +- 10 %; 60 Hz. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 2 G IIC T4 (10 <Ta< 40 °C) X	A35518940
nES300ex	230 & 400 V +- 10 %; 50 Hz and 230 V +- 10 %; 60 Hz. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 2 G IIC T4 (10 <Ta< 40 °C) X	A35618940
nES630ex	400 & 690 V +- 10 %; 50 Hz only. Air cooled.	Ex II (internal) 2 G b IIB+H2 T3 / (external) 3 G IIC T3 (T150 °C)(10 <Ta< 40 °C) X	A35818940

nES single stage EX series: Bare shaft

Edwards nES single stage EX series bare shaft pumps have the same pump protection features, excluding motor related components. Pumps are supplied ready for local motor fitting.

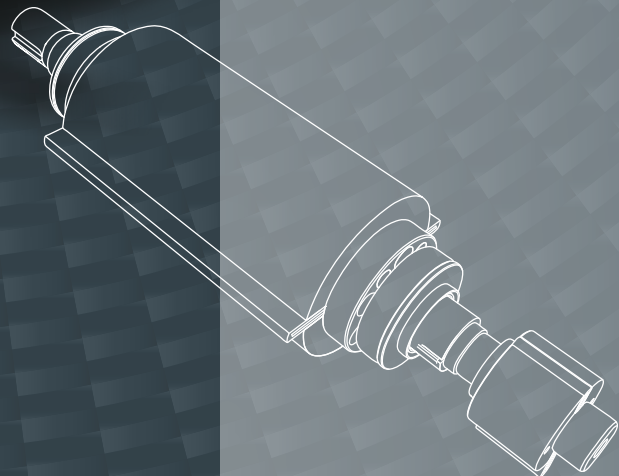
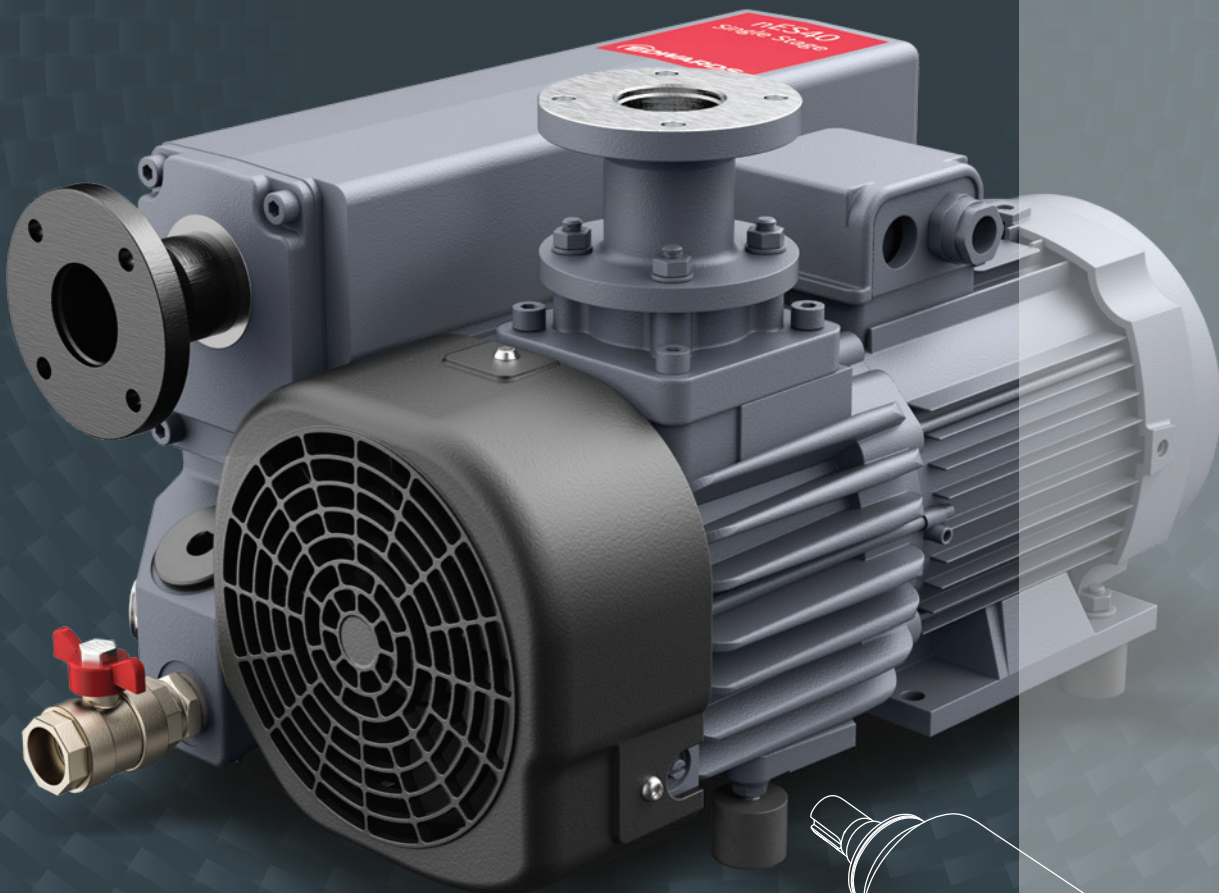
*Bare shaft IEC flange available on request.

*Bare shaft pumps are not ATEX compliant.

Bare shaft pump (Non ATEX compliant)	Motor mounting flange (NEMA)	Part Number
nES40ex - without motor	145TC	A35118986
nES65ex - without motor	145TC	A35318986
nES100ex - without motor	184TCH	A35418986
nES200ex - without motor	213TC	A35518986
nES300ex - without motor	215TC	A35618986

nES SERIES SINGLE STAGE ROTARY VANE PUMPS

 **EDWARDS**



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Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 100 years' history.

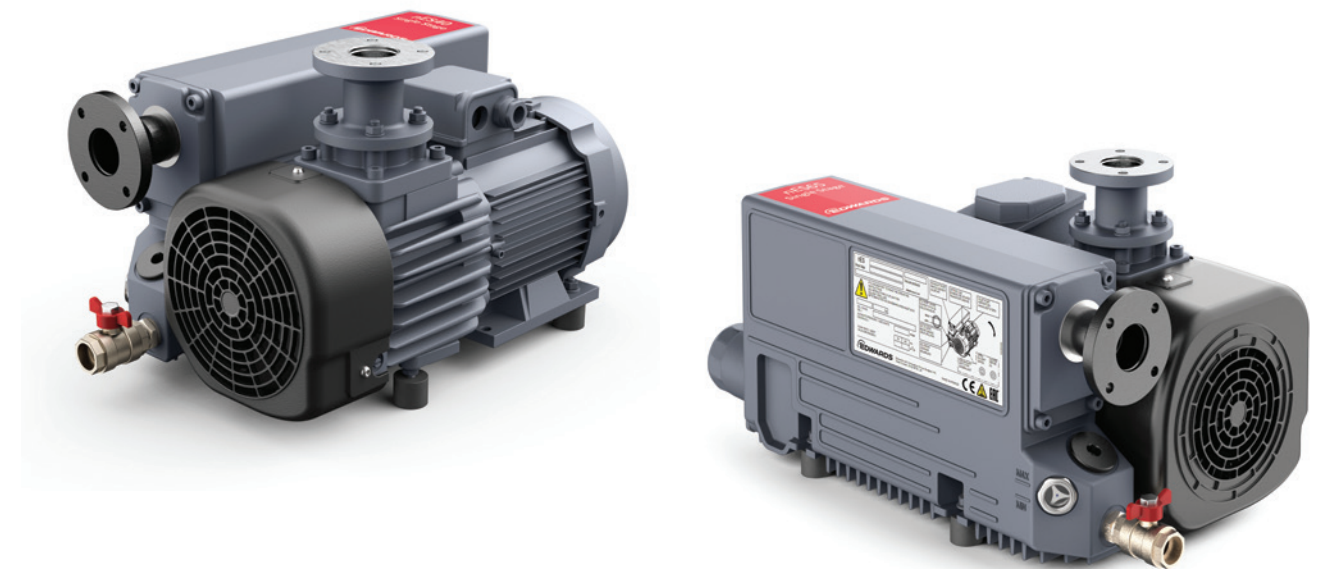
We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions. Using the most innovative and up-to date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way.

nES SERIES

NEXT-GENERATION SINGLE STAGE ROTARY VANE PUMPS

The Edwards nES single stage series represents the next advancement in oil-sealed rotary vane vacuum pumps for use in a wide range of industries and applications.

Offering high reliability, low life cycle cost and proven performance, the nES series provides an ideal solution to suit a broad range of requirements.



FEATURES



PROVEN PERFORMANCE

The Edwards nES series delivers consistent pumping performance with excellent vacuum stability, thanks to optimised oil distribution. A high pumping speed at low pressures provides an ideal solution for a wide range of applications.



HIGH RELIABILITY

The pump mechanism provides high robustness and reliability, ensuring maximum productivity. Engineered with high-quality components and an effective oil return system, the nES series is designed to maximise process efficiency.



LOW LIFE CYCLE COST

Efficient cooled motors, low pump temperature and minimum maintenance provide an excellent life cycle cost.



LOWER EMISSIONS

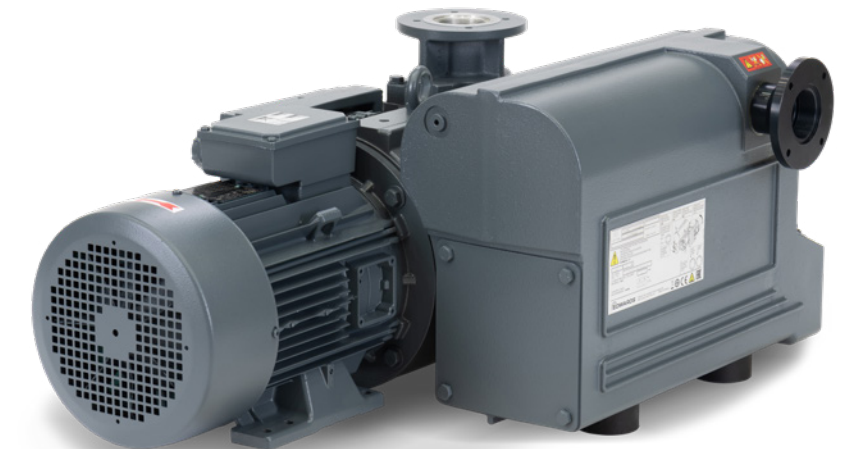
The nES series is compact in design and clean in operation with highly efficient integrated mist filters, optimised oil retention, low noise and vibration level to minimise environmental impact.



nES300



nES750



nES220

nES PUMP TECHNOLOGY

PUMP MECHANISM

The pump mechanism is designed to provide optimum pumping performance without fluctuation in vacuum levels.

EFFICIENT COOLING

The efficient cooling system enables low operating temperatures and increased oil life, improving reliability.

OIL RETURN SYSTEM

The optimised return and separation system supports a stable pumping performance and minimises oil loss. Use of the ULTRAGRADE Performance 70 oil enables optimum pumping performance, while the use of the ULTRAGRADE Endurance Extend 110 oil provides extended service intervals.

GAS BALLAST

The gas ballast mechanism facilitates effective pumping and management of condensable vapours.

DRIVE TECHNOLOGY

The motors are highly efficient, meeting latest efficiency standards and UL and European standards.

INSTALLATION FLEXIBILITY

The pumps are compatible with both ISO and G connections, providing flexibility in installation.

ADVANTAGES



High pumping speed at low pressure



Stable vacuum performance with no pressure fluctuation



Low noise and vibration



Efficient oil distribution system



High reliability through proven technology



Compact design with integrated motor



Simplified maintenance - ensuring high productivity

TECHNICAL DATA

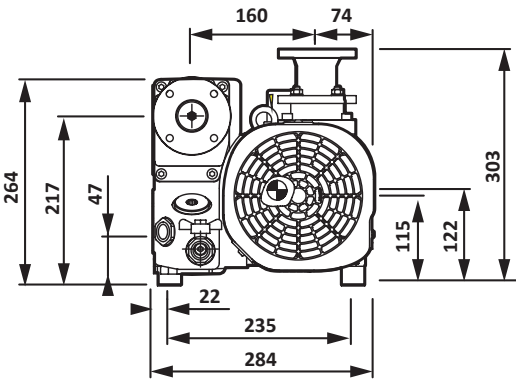
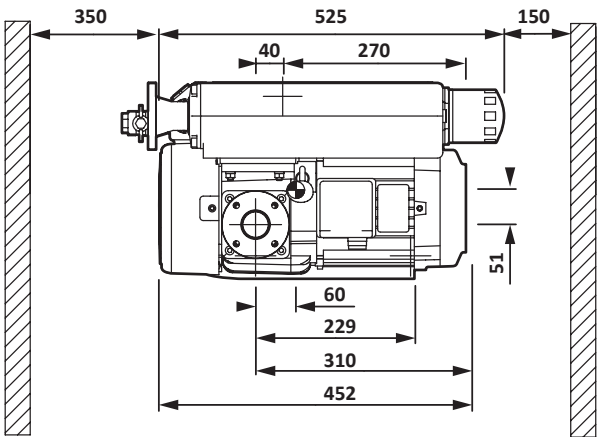
	Units	nES40	nES65	nES100	nES220
Maximum displacement (50 Hz)	m³h⁻¹/cfm	44.0/25.9	59.0/34.8	98.0/57.4	200/117
Maximum displacement (60 Hz)	m³h⁻¹/cfm	53.0/31.2	71.0/41.8	117/68.9	240/141
Pumping speed (50 Hz)	m³h⁻¹/cfm	38.5/22.7	54.0/31.8	87.5/51.5	179/105
Pumping speed (60 Hz)	m³h⁻¹/cfm	47.0/27.7	64.0/37.7	105/61.8	214/125
Ultimate vacuum without gas ballast	mbar/torr	0.5/0.4	0.5/0.4	0.5/0.4	0.08/0.06
Ultimate vacuum with gas ballast	mbar/torr	1.5/1.1	1.5/1.1	1.5/1.1	0.7/0.5
Inlet connection	ISO/G	40 ISO-F/G1 ¼	40 ISO-F/G1 ¼	40 ISO-F/G1 ¼	63 ISO-F/G2
Outlet connection	ISO/G	40 ISO-F/G1 ¼	40 ISO-F/G1 ¼	40 ISO-F/G1 ¼	63 ISO-F/G2
Max. permitted outlet pressure	bar (abs)	1.15	1.15	1.15	1.15
Max. water vapour pumping rate (50 Hz)	kg h⁻¹/lb h⁻¹	0.76/1.67	1.0/2.2	1.60/3.5	1.3/2.8
Max. water vapour pumping rate (60 Hz)	kg h⁻¹/lb h⁻¹	0.90/2.0	1.25/2.75	1.70/3.75	1.8/4.0
Dimensions (LxWxH) approximate	mm	540x284x303	586x320x314	721x400x319	984x606x407
Weight approximate	kg/lb	41/86	58/122	104/230	180/397
Motor protection rating		IP55	IP55	IP55	IP55
Motor rated power (50 Hz)	kW	1.3	1.8	3	4.4
Motor rated power (60 Hz)	kW/hp	1.3/2	1.8/3	3.6/5	5.5/7.5
Cooling		air	air	air	air
Noise level (50 Hz) air/water	dB(A)	58	60	61	69
Noise level (60 Hz) air/water	dB(A)	60	64	64	73
Oil refill capacity	litre	1	2	2	7.5
Recommended oil	Edwards ULTRAGRADE Performance 70 or ULTRAGRADE Endurance Extend 110				

	Units	nES300	nES300S	nES630	nES750
Maximum displacement (50 Hz)	m³h⁻¹/cfm	280/165	330/194	700/412	840/494
Maximum displacement (60 Hz)	m³h⁻¹/cfm	340/200	385/227	840/494	-
Pumping speed (50 Hz)	m³h⁻¹/cfm	240/141	284/167	640/377	755/444
Pumping speed (60 Hz)	m³h⁻¹/cfm	290/171	330/194	755/444	-
Ultimate vacuum without gas ballast	mbar/torr	0.08/0.06	0.08/0.06	0.08/0.06	0.08/0.06
Ultimate vacuum with gas ballast	mbar/torr	0.7/0.5	0.7/0.5	0.7/0.5	0.7/0.5
Inlet connection	ISO/G	63 ISO-F/G2	63 ISO-F/G2	100 ISO-K/100 PN10	100 ISO-K/100 PN10
Outlet connection	ISO/G	63 ISO-F/G2	63 ISO-F/G2	100 ISO-K/100 PN10	100 ISO-K/100 PN10
Max. permitted outlet pressure	bar (abs)	1.15	1.15	1.15	1.15
Max. water vapour pumping rate (50 Hz)	kg h⁻¹/lb h⁻¹	1.3/2.8	1.3/2.8	17/37.5	24/53
Max. water vapour pumping rate (60 Hz)	kg h⁻¹/lb h⁻¹	1.8/4.0	1.8/4.0	24/53	-
Dimensions (LxWxH) approximate	mm	1130x555x450	1117x565x450	1563x909x740	1563x909x740
Weight approximate	kg/lb	244/539	244/539	760/1678	760/1678
Motor protection rating		IP55	IP55	IP55	IP55
Motor rated power (50 Hz)	kW	5.5	6	18.5	18.5
Motor rated power (60 Hz)	kW/hp	6.6/10	7.2/10	18.5/25	-
Cooling		air	air	air/water	air/water
Cooling water flow (if applicable)	L/h	-	-	750	750
Noise level (50 Hz) air/water	dB(A)	72	72	72/72	75/72
Noise level (60 Hz) air/water	dB(A)	76	76	75/72	-
Oil refill capacity	litre	8.5-11.5	8.5-11.5	20-23	20-23
Recommended oil	Edwards ULTRAGRADE Performance 70 or ULTRAGRADE Endurance Extend 110				

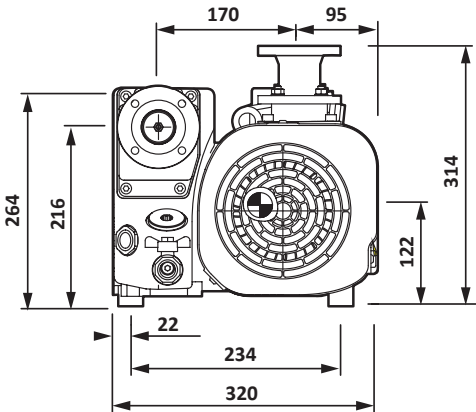
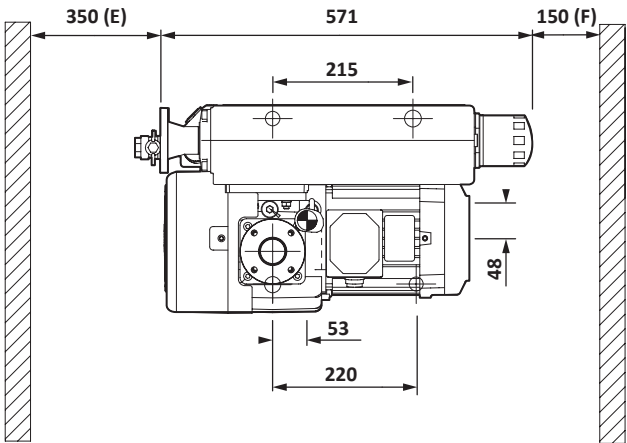
For water cooled versions: inlet/outlet connection M22 x 150 female, water supply pressure 2/8 bar, max water temperature 30°C

DIMENSIONS

nES40

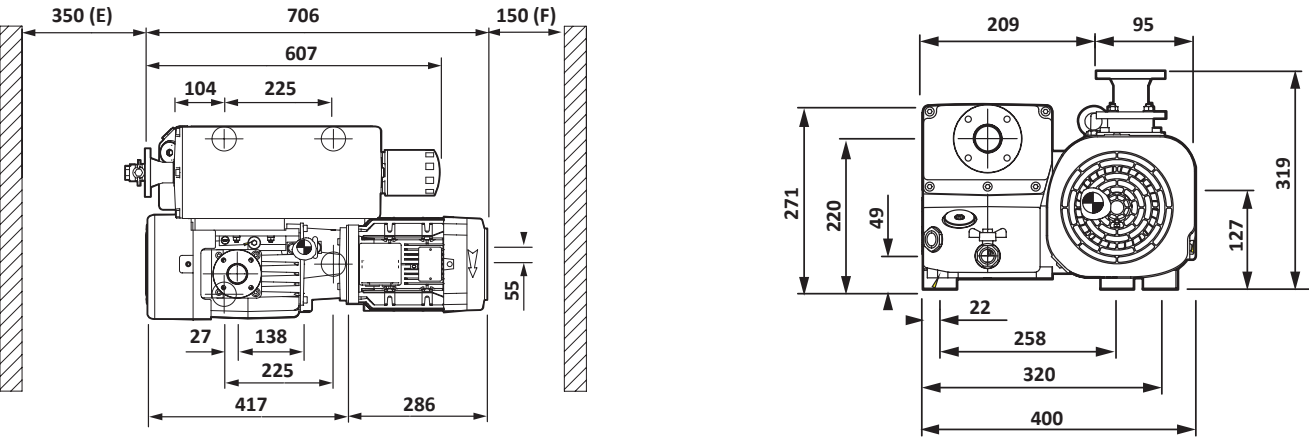


nES65

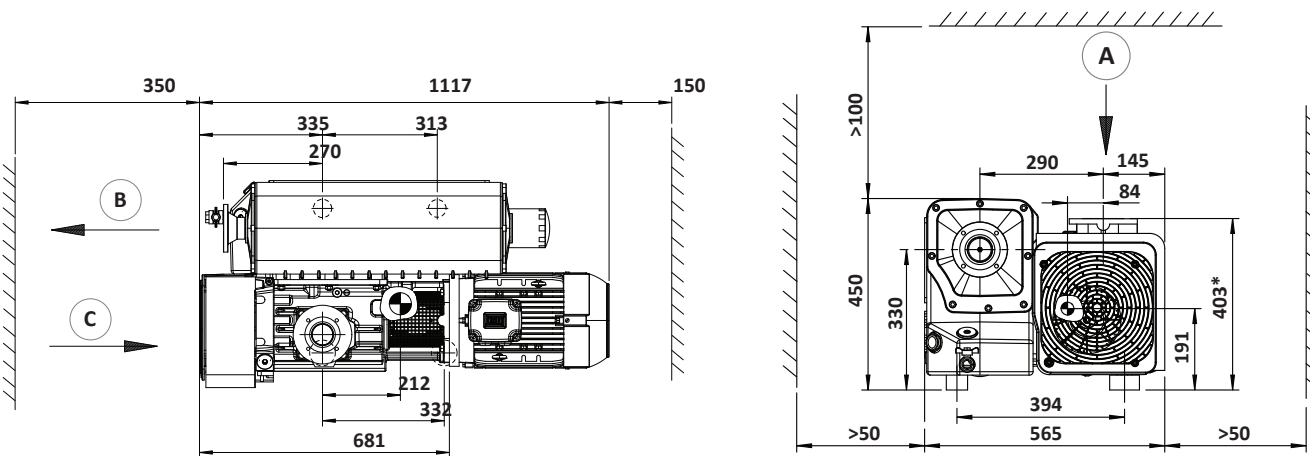


DIMENSIONS

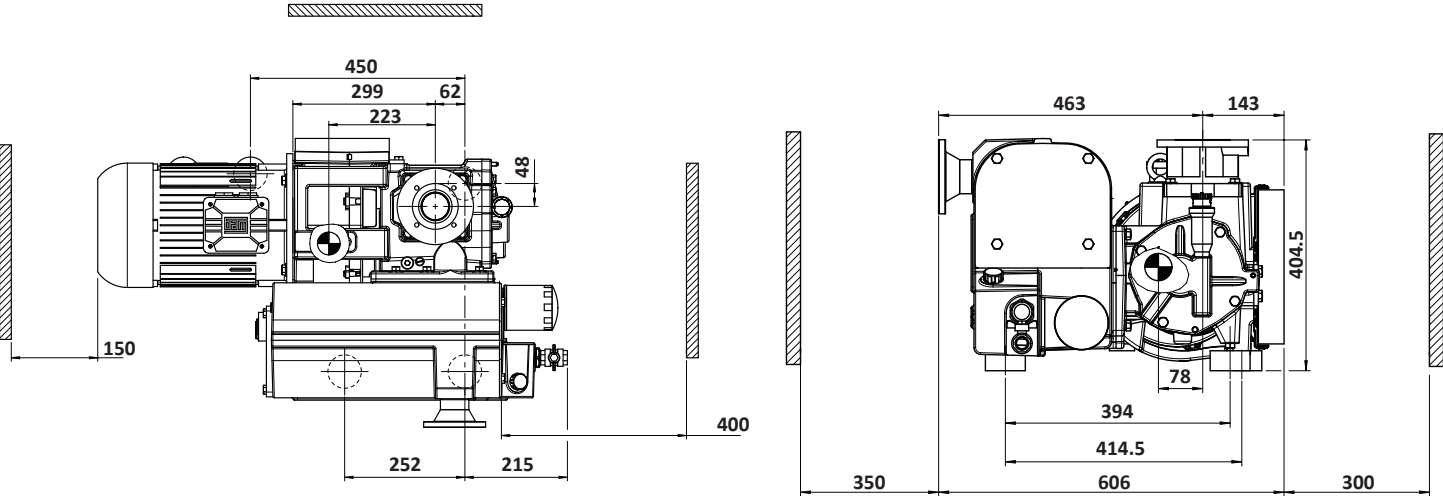
nES100



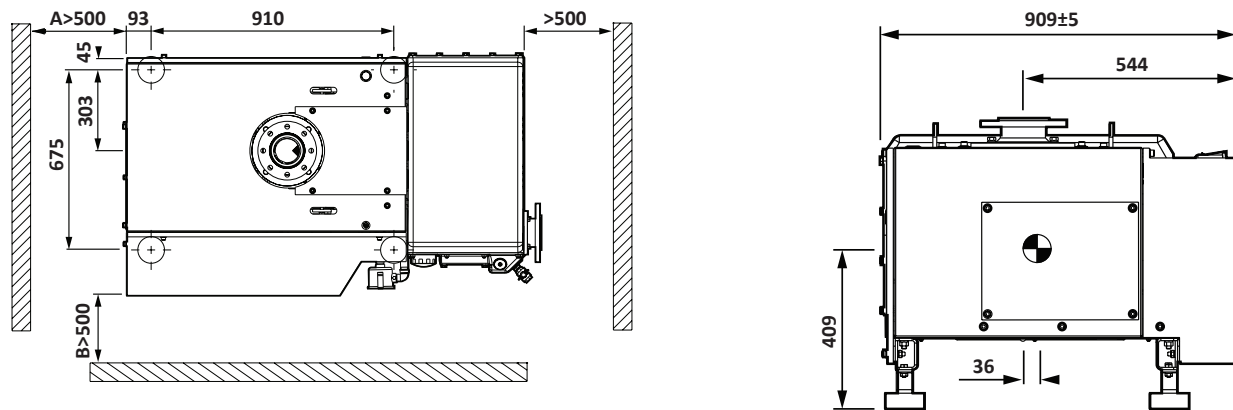
nES300S



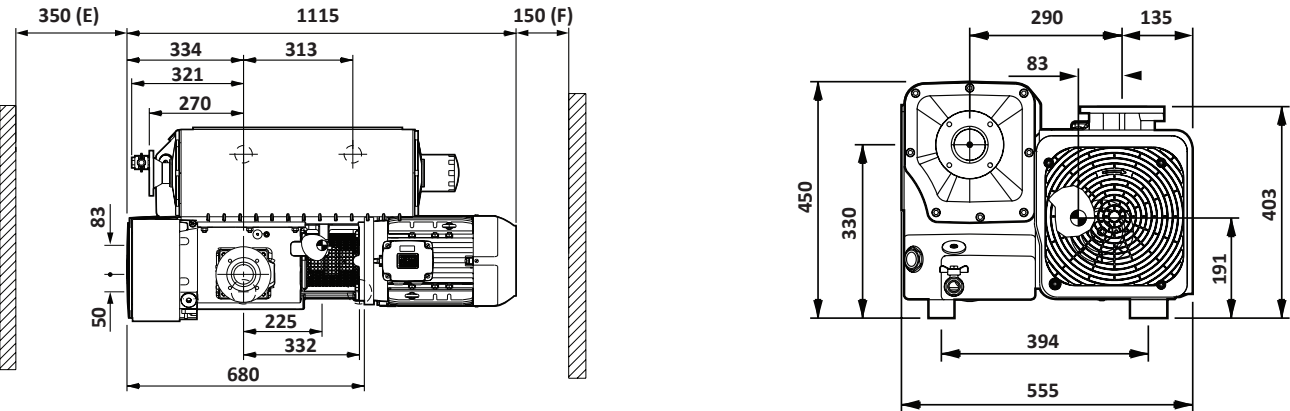
nES220



nES630/nES750

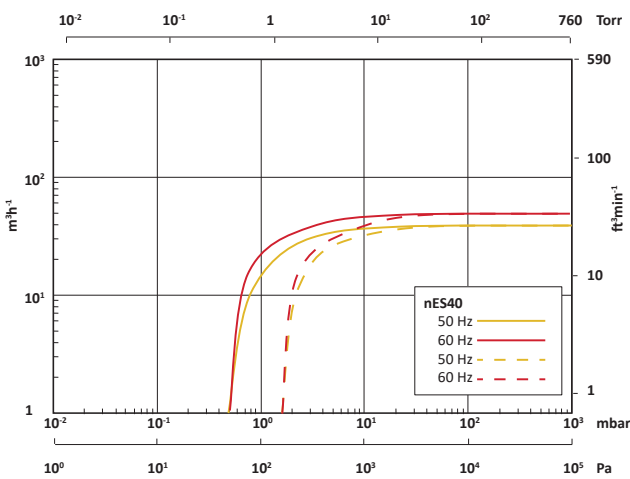


nES300

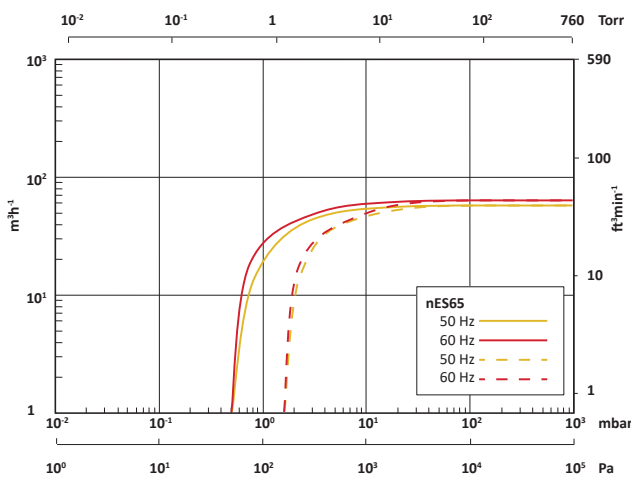


PERFORMANCE CURVES

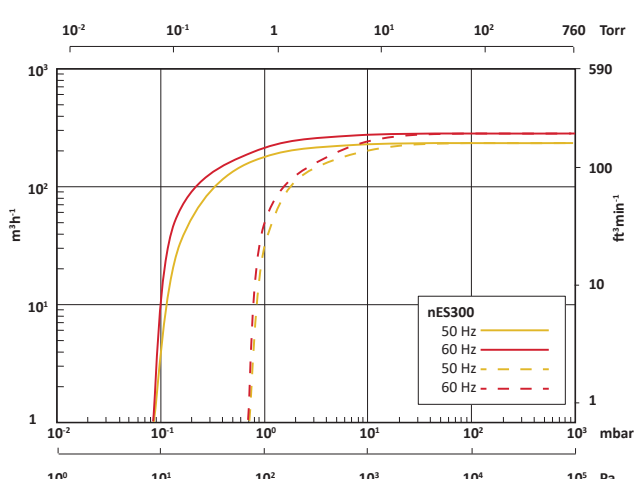
nES40



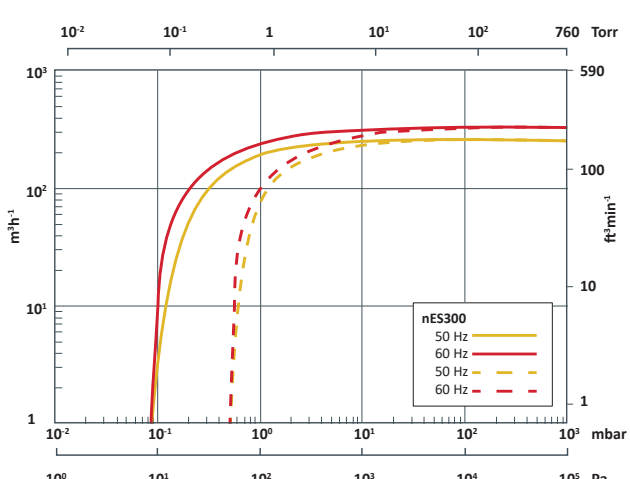
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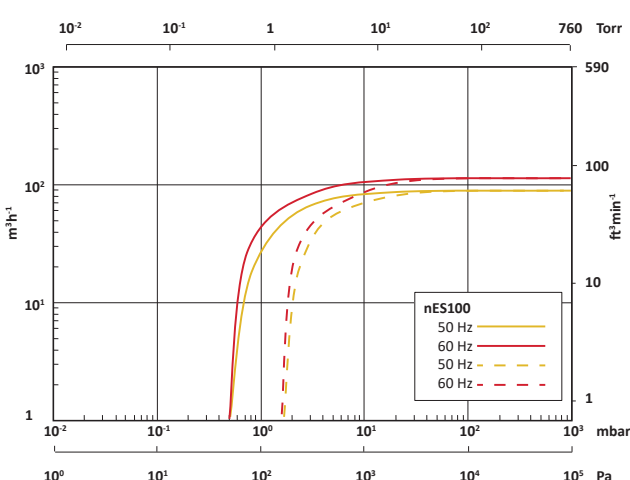
nES300



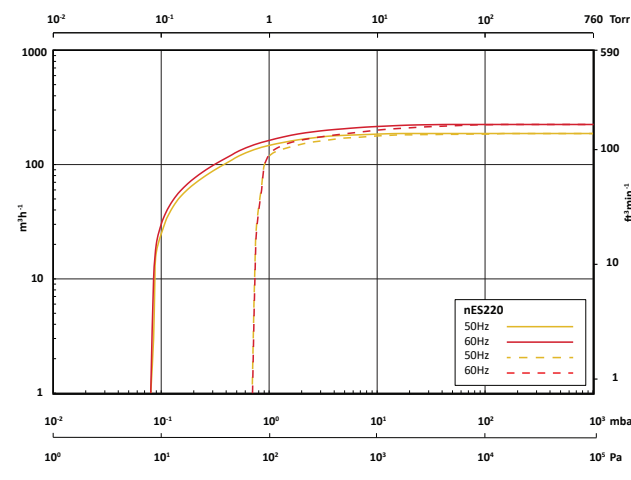
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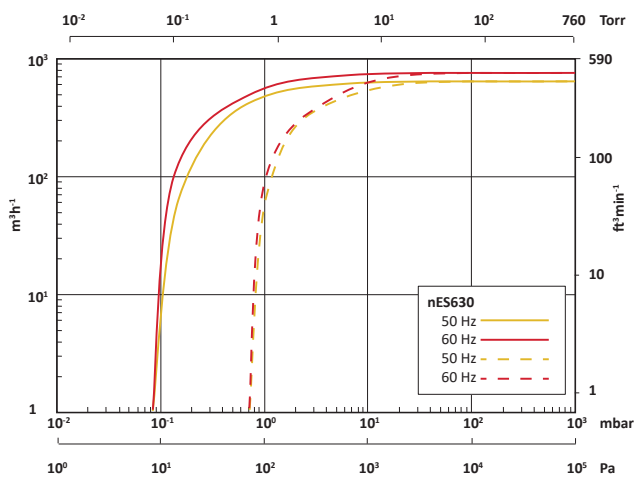
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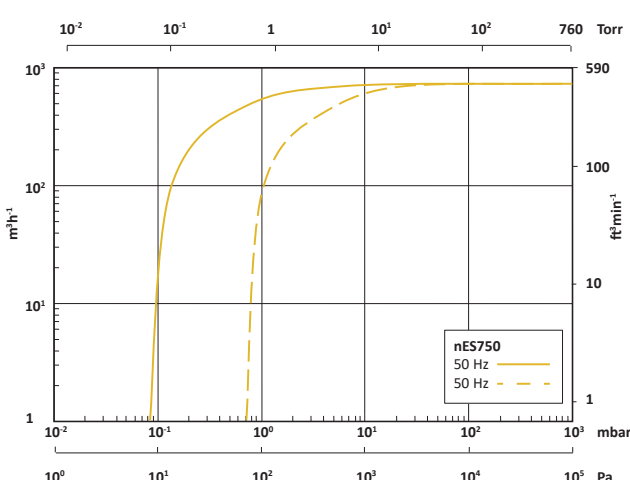
nES220



nES630



nES750



Without gas ballast With gas ballast

APPLICATIONS

The nES series single stage pumps offer an ideal combination of vacuum performance and stability with convenience and investment affordability in a wide range of industrial applications.

Coating

- Load locks of glass coater and large in-line coaters
- Web and roll coating
- Optical, ophthalmic and display coating
- Surface coating like plasma deposition and reflective or decorative

Heat treatment

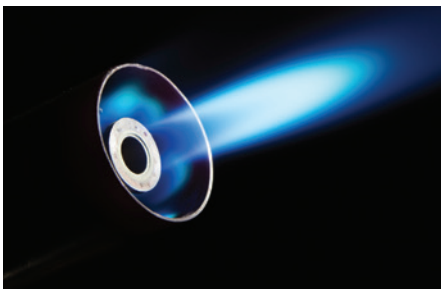
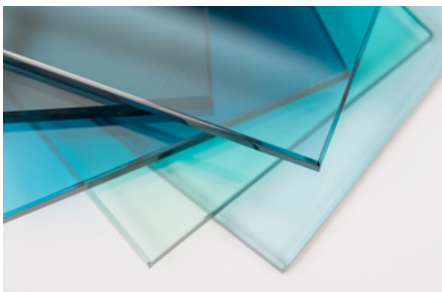
- Tempering
- Quenching
- Annealing
- Vacuum brazing

Drying

- Transformer drying
- Automotive drying and filling systems
- Refrigeration and air conditioning
- Battery and capacitor drying

General industrial

- E-beam and plasma welding
- Plasma surface treatments
- Oil/resin degassing
- Biogas treatment
- Rubber, silicone and composite
- Leak detection
- Vacuum forming
- Industrial gas production
- Vacuum insulated panels and glass



nES PUMP AND BOOSTER COMBINATIONS

Edwards offers a range of nES rotary vane pumps and mechanical boosters, complete with combination kits to mount the mechanical booster. The fitting of a mechanical booster to an nES rotary vane pump significantly increases the pumping speed and vacuum performance of your system as well as the ultimate vacuum attainable.

Edwards can assist you in the selection of the combination most suited to your requirement.

EH range

The EH range of mechanical boosters (250–4200 m³h⁻¹, 150–2500 cfm), with its unique hydrokinetic drive allowing continuous operation from atmospheric pressure to ultimate vacuum, cuts pump downtimes by up to 50%.

Systemisation

Our comprehensive range of nES pumps and EH mechanical boosters, complete with combination kits, allows the user to specify a complete system. Specifying a combination is simply a process of selecting the nES pump and the required mechanical booster that will enable us to build a complete systemised unit ready to use.

Depending on the type of nES and booster pump combination, the assembled unit will either be a Frame Mount or a Direct Mount unit. Alternatively, combination kits are available to allow the nES pump and EH mechanical booster to be assembled at the customer's site.

The nES series is also available without motor (40–300 m³/h). Bare shaft pumps are provided with IEC or NEMA motor flange. Please contact Edwards for additional information.

nES40



nES65



nES100



nES220



nES300/nES300S



nES630



nES750



ORDERING INFORMATION

Model	Motor rating	Voltage	Cooling	Part number
nES40	Wide range	220-230 V & 380-400 V +-10%; 50 Hz 220-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35104940
	Asia	220-230 V & 380-400 V +-10%; 50 Hz 220-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35124940
	Canada	575 V +-10%; 60 Hz	Air	A35104957
nES65	Wide range	220-230 V & 380-400 V +-10%; 50 Hz 220-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35304940
	Asia	220-230 V & 380-400 V +-10%; 50 Hz 220-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35324940
	Canada	575 V +-10%; 60 Hz	Air	A35304957
nES100	Wide range	220-240 V & 380-415 V +-10%; 50 Hz 220-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35404940
	Asia	220-240 V & 380-415 V +-10%; 50 Hz 220-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35424940
	Canada	575 V +-10%; 60 Hz	Air	A35402957
nES220	Wide range	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35554950
	Asia	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 440-460 V +-10%; 60 Hz	Air	A35574950
nES300	Wide range	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35604950
	Asia	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35624950
nES300S	Wide range	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35654950
	Asia	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35674950
nES630	Wide range	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35904950
			Water	A35905950
	Asia	200-240 V & 380-415 V +-10%; 50 Hz 200-230 V & 380-400 V & 460 V +-10%; 60 Hz	Air	A35924950
			Water	A35925950
	Canada	575 V +-10%; 60 Hz	Air	A35904937
nES750	Wide range	200-240 V & 380-415 V +-10%; 50 Hz	Air	A36904954
			Water	A36905954
	Asia	200-240 V & 380-415 V +-10%; 50 Hz	Air	A36924954
			Water	A36925954

SWITCHES, SENSORS AND GAUGES

	Temperature switch	Temperature sensor (PT100)	Oil level switch	Exhaust filter manometer
nES40/65	A35104200	A35900380	A35104205	A35104220
nES100	A35104200	A35900380	A35104205	A35104220
nES220	A35104200	A35900380	A35104205 + GK6542106*	A35104220
nES300/300S	A35104200	A35900380	A35104205	A35104220
nES630/750	A35104204	A35900380	A35104209	A35104220

*End-plate with accessory fitting holes and plugs. Only if required.

nES-EH FITTING KITS

	EH500 (ISO63)	EH1200 (ISO100)	EH2600 (ISO100)
nES100 (ISO40)	A35902100*	-	-
nES220 (ISO63)	A35104101	A35902103	-
nES300 (ISO63)	A35104101	A35104104	-
nES630/750 (ISO100)	-	A35104108	A35104108

*Includes nES100 base-frame

SERVICE AND SUPPORT

Keeping an nES pump working at the top level is paramount, and Edwards offers a **wide range of maintenance service plans**, tailored to your customer’s needs. From **Field Service intervention** to **Managed Maintenance contracts**, Edwards will take care of the vacuum pump to ensure **the best performance** and **longevity of the product** for an optimum total cost of ownership. Further than genuine spare parts, kits and oil, we can provide the following fast and effective service solutions for the nES series pumps:

- Edwards' highly trained Service Technicians can carry out **the commissioning, health check, routine maintenance, troubleshooting and repair of vacuum equipment**, anywhere in the world. We invest in the tools, training and inventory that enable our team of service engineers to deliver quality service in a safe and consistent manner, according to manufacturing recommendations, using genuine Edwards spare parts and oils.
- **Through Managed Maintenance contracts**, Edwards will take over the maintenance planning and responsibility for servicing your nES pumps. Regular scheduled maintenance can identify potential problems before they occur, and plans can be structured around different levels of care. Managed maintenance also enables cost management and will help you to avoid the risk and expense associated with unplanned downtime.
- **With the pump overhaul service** in Edwards’ Service Technology Centres located around the world, no matter the condition of your nES pump, our highly trained specialists can handle it, even if coming from harsh environments or critical applications.





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