

nES300S SINGLE STAGE ROTARY VANE VACUUM PUMP

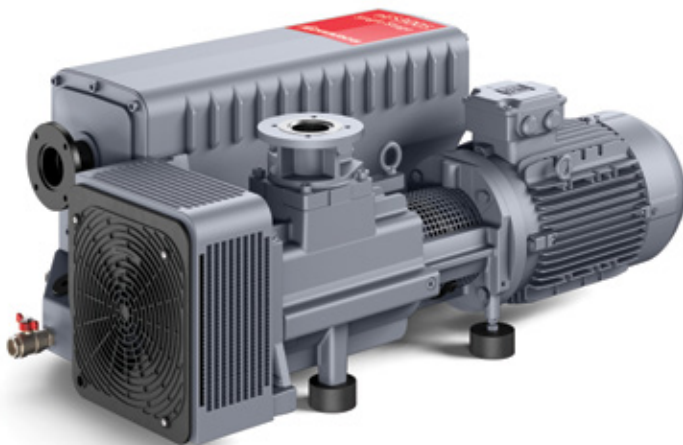
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NEXT-GENERATION SINGLE-STAGE ROTARY VANE VACUUM PUMPS

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.

nES300S

Taking this a step further, we introduce the nES300S, offering higher pumping speed and energy efficiency. This is in addition to the robust and compact design you have come to expect. The efficient cooling system enables low operating temperatures and increased oil life, improving reliability.



PROVEN PERFORMANCE

The Edwards nES300S delivers higher pumping performance than the nES300 keeping the same operating temperature and noise level. It provides an ideal solution for short cycle applications when fast pump down is required.



LOW LIFE-CYCLE COSTS

Thanks to a very efficient combination in design between the vacuum generator and the electric motor the nES300S has an amazing energy efficiency. The low pump temperature also extends service intervals. All together it provides an excellent life-cycle cost compare to other single-stage rotary vane pumps.



HIGH RELIABILITY

The pump mechanism provides high robustness and reliability, ensuring maximum productivity. The nES300S is ideally suited for demanding applications and comes optionally with a chemically resistant shaft seal and a synthetic oil to extend uptime further again.



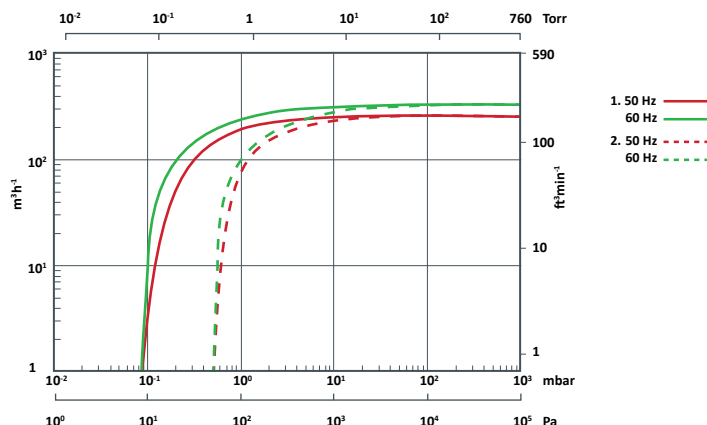
COMPACT AND CLEAN

The nES300S is both compact in design and clean with highly efficient integrated mist filters, optimised oil retention, low noise and vibration level to minimise environmental impact.

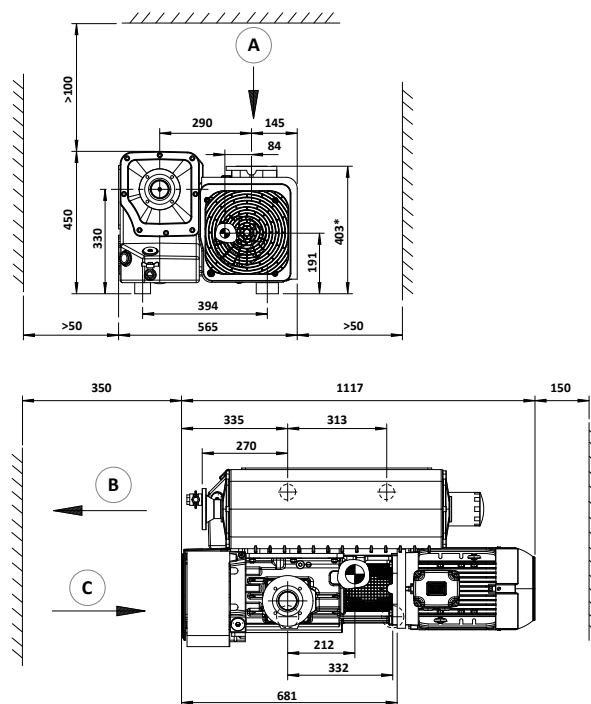
TECHNICAL DATA

	Units	nES300S
Maximum displacement (50 Hz)	m ³ h ⁻¹ /cfm	330/194
Maximum displacement (60 Hz)	m ³ h ⁻¹ /cfm	385/227
Pumping speed (50 Hz)	m ³ h ⁻¹ /cfm	284/167
Pumping speed (60 Hz)	m ³ h ⁻¹ /cfm	330/194
Motor rated power (50 Hz)	kW	6
Motor rated power (60 Hz)	kW/hp	7.2/10
Dimensions (LxWxH) (Approximate)	mm	1117x565x450
Maximum water vapour pumping rate (50 Hz)	kg h ⁻¹ /lb h ⁻¹	1.3/1.4
Maximum water vapour pumping rate (60 Hz)	kg h ⁻¹ /lb h ⁻¹	1.8/1.9
Weight (Approximate)	kg/lb	244/539
Noise level (50 Hz)	dB(A)	72
Noise level (60 Hz)	dB(A)	76
Oil refill capacity	litre	8.5 – 11.5
Inlet connection	ISO-F/G	ISO63/G2
Outlet connection	ISO-F/G	ISO63/G2
Ultimate vacuum without gas ballast	mbar/torr	0.08/0.06
Ultimate vacuum with gas ballast	mbar/torr	0.7/0.5
Maximum permitted outlet pressure	bar(a)	1.15
Motor protection rating		IP55
Recommended oil		Ultragrade Performance 70 or Ultragrade Endurance Extend 110

PERFORMANCE CURVES



DIMENSIONS



ORDERING INFORMATION

Part Number	Product Description
A35654950	nES300S EU/US/ASIA, AIR COOLED nES300S with FKM shaft seal and Ultragrade Performance 70 (0.08 mbar ultimate-pressure w/o gas ballast)
A35657950	nES300S PTFE SHAFT SEAL + EXTEND 110 nES300S with PTFE shaft seal and Ultragrade Endurance Extend 110 for chemical version (0.15 mbar ultimate pressure w/o gas ballast)

APPLICATIONS

- Lithium-ion batteries
- Thermoforming
- Heat treatment
- Rubber injection
- Resin casting
- Composites
- Vacuum impregnation

GLOBAL CONTACTS

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