

nEXT55 TURBOMOLECULAR PUMP

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nEXT55 is the latest addition to the Edwards nEXT family. This new turbomolecular pump is an evolution of Edwards extremely popular nEXT85 platform, with a significantly reduced height while still offering pumping speeds of 55 l/s for nitrogen. nEXT55 offers the highest pumping density of other pumps in its class, with almost double the pumping speed of similar sized turbo pumps.

As it is built on the proven nEXT85 platform, nEXT55 offers high reliability and low risk to adoptors. Also, like nEXT85, field maintenance is only required every 4 years of operation, and this - including replacement of the bearing - can be performed by the end user. nEXT55 brings with it all the benefits in flexibility associated with nEXT85, with the same comprehensive communication and control options available, as well as a full set of accessories.

nEXT55 is the ideal choice in deployable instruments or portable applications where a compact footprint or lower weight are key factors.



FEATURES AND BENEFITS

- Class leading pumping speeds
- Outstanding compression ratios
- Ease of integration and installation
- Assured reliability
- End user service capability
- Full nEXT established communication interface



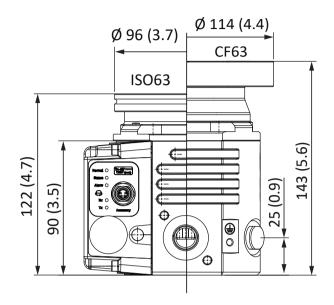
TECHNICAL DATA

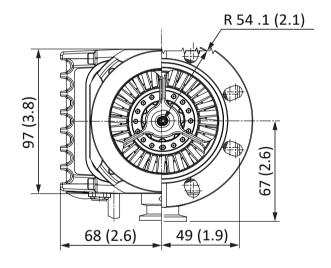
		nEXT55
Pump interface		
Inlet flange		ISO63
Exhaust flange		NW16
Vent port		⅓ inch BSP
Key technical specifications		
Rotational speed	Rpm	90,000
Start time to 90% speed (sec) D		90
Main inlet pumping speed (I/s)	N ₂	55
	Не	41
	H2	27
	Ar	55
Peak compression ratio backing port to main inlet port (D)	N ₂	>1x10 ¹¹
	Не	6.9x10 ⁵
	H2	2.9x10 ⁴
	Ar	1x10 ¹¹
Ultimate pressure	mbar	<1x10 ⁻⁷
Sound pressure level	dB(A)	34 +/-2.5*
Mass (kg) D		ISO 2.47 - CF 3.5
Pumped media		
Designed gas compatibility*	Air, CO, Ne, N ₂ , Kr, Ar, CO ₂ , He and H ₂ O ₂ concentration must be less than 25% by volume Water vapour must not condense inside the pump	
Ambient operating temperature range	°C	5 to 40
Storage temperature range	°C	-30 to +70
Cooling method, optional		air/water
Cooling method, standard		Free convection
Maximum external magnetic field	mT	5 radial
Enclosure protection		IP64
Electrical rating		,
Power supply	V	24-48 Vd.c +5% - 10%
Max power consumption	W	120W
Factory default setting	W	Refer to pump label
Connector		15-way D-Type male
Logic control		Refer to nEXT85 manual



^{**} To pump an unlisted gas species, contact the supplier for advice

DIMENSIONS





GLOBAL CONTACTS

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Edwards Ltd, registered in England and Wales No. 6124750, registered office: Innovation Drive, Burgess Hill, West Sussex, RH15 9TW, UK. UK +44 (0) 1444 253 000 (local rate) 0845 921 2223

Belgium +44 1293 60 3350

France +33 1 4121 1256

Germany 0800 000 1456

Italy +39 02 48 4471

Israel +972 8 681 0633

Russia +7 495 933 55 50

Ext. 1800/1803 +8 800 775 80 99

EMEA

ASIA PACIFIC China India

Japan

+86 400 111 9618 +91 20 4075 2222 +81 47 458 8836

Korea Singapore Taiwan

+82 31 716 7070 +65 6546 8408 +886 3758 1000

AMERICAS USA

USA +1 800 848 9800 Brazil +55 11 3952 5000

