

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 by far, 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

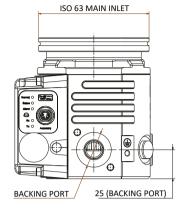
- · High pumping density in a compact footprint
- Fully end user serviceable
- Assured high reliability of well-established platform
- Full range of accessories
- Full established nEXT communication interfac

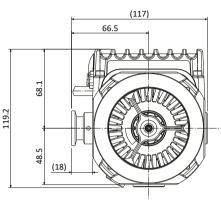
Technical data

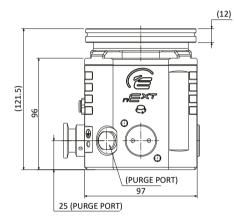
		nEXT55
Pump interface		
Inlet flange		ISO63
Exhaust flange		NW16
Vent port		⅓ inch BSP
Key technical specifications		
Rotational speed	Rpm	90,000
Main inlet pumping speed (I/s)	N ₂	55
	Не	41
	H ₂	27
	Ar	55
Peak compression ratio backing port to main inlet port	N ₂	>1.0E+11
	Не	6.9E+05
	H ₂	2.9E+04
	Ar	>1.0E+11
Ultimate pressure	mbar	<1e-7
Sound pressure level	dB(A)	34 +/-2.5*
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		
Ambient operating temperature range Storage temperature range	inside	the pump
	inside °C	the pump 5 to 40
Storage temperature range	inside °C	5 to 40 -30 to +70
Storage temperature range Cooling method, optional	inside °C	the pump 5 to 40 -30 to +70 air/water
Storage temperature range Cooling method, optional Cooling method, standard	oC oC	the pump 5 to 40 -30 to +70 air/water Free convection
Storage temperature range Cooling method, optional Cooling method, standard Maximum external magnetic field	oC oC	the pump 5 to 40 -30 to +70 air/water Free convection 5 radial
Storage temperature range Cooling method, optional Cooling method, standard Maximum external magnetic field Enclosure protection	oC oC	the pump 5 to 40 -30 to +70 air/water Free convection 5 radial
Storage temperature range Cooling method, optional Cooling method, standard Maximum external magnetic field Enclosure protection Electrical rating	inside °C °C mT	the pump 5 to 40 -30 to +70 air/water Free convection 5 radial IP54
Storage temperature range Cooling method, optional Cooling method, standard Maximum external magnetic field Enclosure protection Electrical rating Power supply	inside °C °C mT	the pump 5 to 40 -30 to +70 air/water Free convection 5 radial IP54 24-48 Vd.c +5% - 10%
Storage temperature range Cooling method, optional Cooling method, standard Maximum external magnetic field Enclosure protection Electrical rating Power supply Max power consumption	inside °C °C mT v W	the pump 5 to 40 -30 to +70 air/water Free convection 5 radial IP54 24-48 Vd.c +5% - 10% 120W

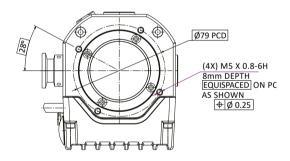
^{*}declared dual number noise emission values in accordance with ISO4871

Dimensions









GLOBAL CONTACTS

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