

# nEXT55 TURBOMOLECULAR PUMP

[edwardsvacuum.com](http://edwardsvacuum.com)

**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



# PRODUCT DATA SHEET

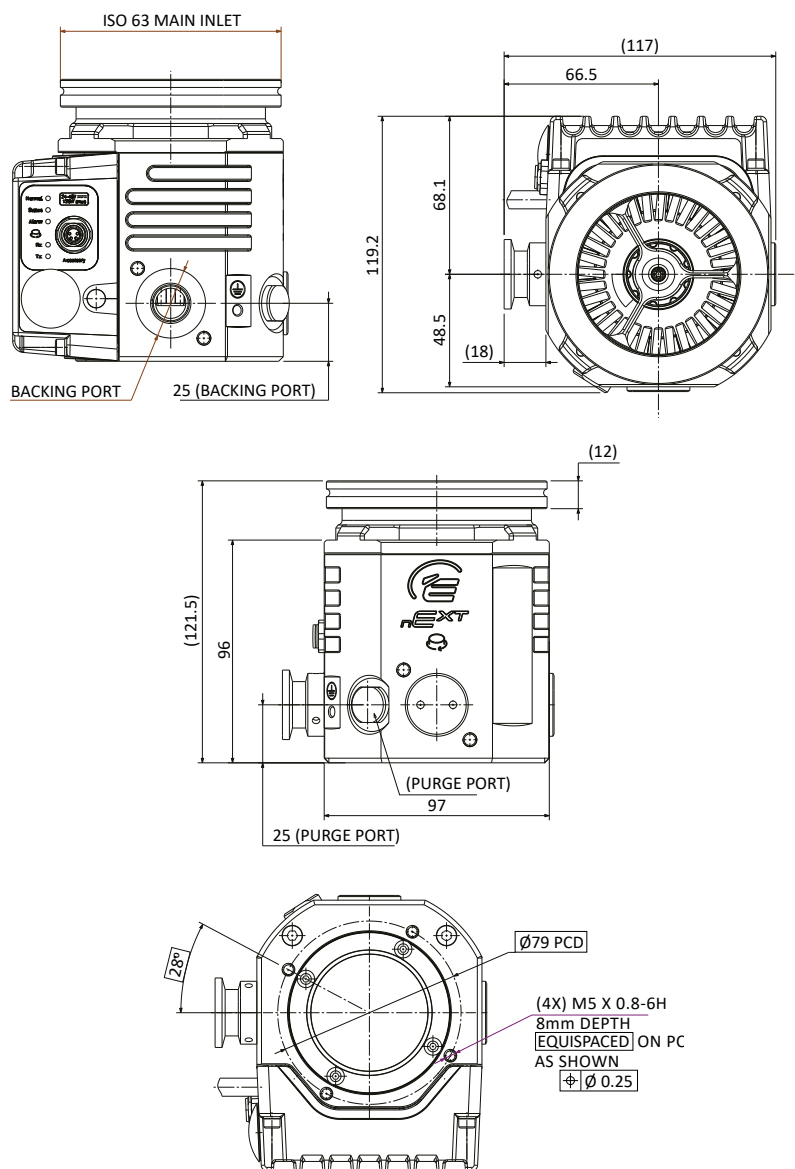
## Technical data

		nEXT55
<b>Pump interface</b>		
Inlet flange		ISO63
Exhaust flange		NW16
Vent port		1/8 inch BSP
<b>Key technical specifications</b>		
Rotational speed	Rpm	90,000
Main inlet pumping speed (l/s)	N <sub>2</sub>	55
	He	41
	H <sub>2</sub>	27
	Ar	55
Peak compression ratio backing port to main inlet port	N <sub>2</sub>	>1.0E+11
	He	6.9E+05
	H <sub>2</sub>	2.9E+04
	Ar	>1.0E+11
Ultimate pressure	mbar	<1e-7
Sound pressure level	dB(A)	34 +/-2.5*
<b>Pumped media</b>		
Designed gas compatibility*	Air, CO, Ne, N <sub>2</sub> , Kr, Ar, CO <sub>2</sub> , He and H <sub>2</sub> O <sub>2</sub> 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		IP54
<b>Electrical rating</b>		
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

\*declared dual number noise emission values in accordance with ISO4871

\*\* To pump an unlisted gas species, contact the supplier for advice

## Dimensions



Publication Number: 3601 0630 01

© Edwards Limited 2020. All rights reserved Edwards and the Edwards logo are trademarks of Edwards Limited

Whilst we make every effort to ensure that we accurately describe our products and services, we give no guarantee as to the accuracy or completeness of any information provided in this datasheet.

Edwards Ltd, registered in England and Wales  
No. 6124750, registered office: Innovation Drive,  
Burgess Hill, West Sussex, RH15 9TW, UK.

