

# 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, 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

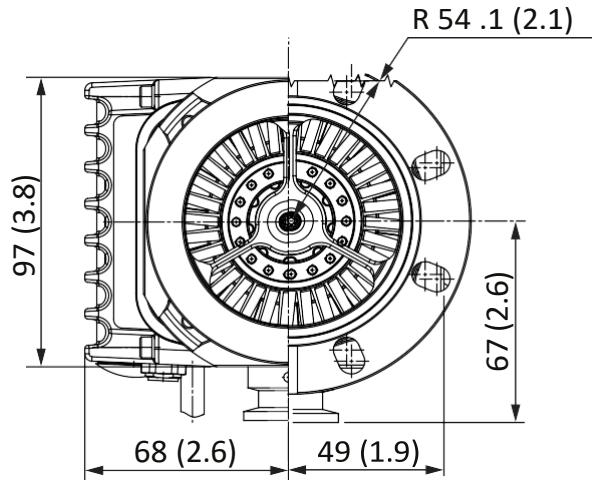
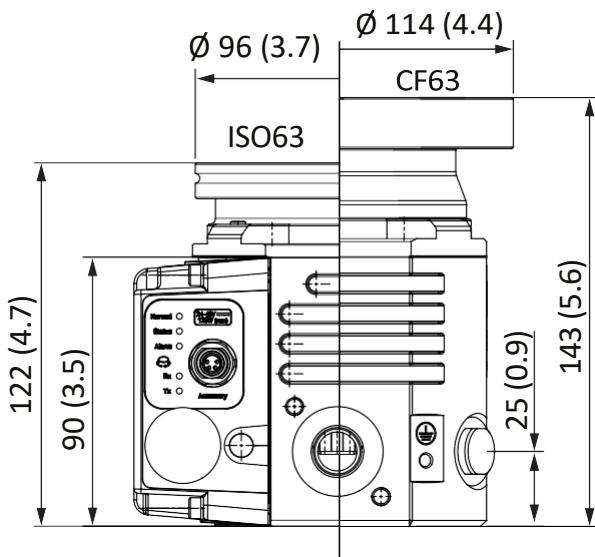
## TECHNICAL DATA

nEXT55		
<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
Start time to 90% speed (sec) D		90
Main inlet pumping speed (l/s)	N2	55
	He	41
	H2	27
	Ar	55
Peak compression ratio backing port to main inlet port (D)	N2	$>1 \times 10^{11}$
	He	$6.9 \times 10^5$
	H2	$2.9 \times 10^4$
	Ar	$1 \times 10^{11}$
Ultimate pressure	mbar	$<1 \times 10^{-7}$
Sound pressure level	dB(A)	34 +/- 2.5*
Mass (kg) D		ISO 2.47 - CF 3.5
<b>Pumped media</b>		
Designed gas compatibility*	Air, CO, Ne, N2, Kr, Ar, CO2, He and H2 O2 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
<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





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