



Edwards nEXT-85D

Technical Specifications

	nEXT85D NW40	nEXT85H NW40	nEXT85D ISO63	nEXT85H ISO63	nEXT85D CF63	nEXT85H CF63	nEXT85D ISO100	nEXT85H ISO100
Main inlet pumping speed								
N ₂ ls ⁻¹	47	47	84	84	84	84	86	86
He ls ⁻¹	61	61	78	78	78	78	80	78
H ₂ ls ⁻¹	49	44	60	54	60	54	60	54
Ar ls ⁻¹	44	44	80	80	80	80	84	84
Peak compression ratio from the backing port to the main inlet port								
N ₂	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹
He	8x10 ⁶	2x10 ⁷	8x10 ⁶	2x10 ⁷	8x10 ⁶	2x10 ⁷	8x10 ⁶	2x10 ⁷
H ₂	2x10 ⁵	2x10 ⁵	2x10 ⁵	2x10 ⁵	2x10 ⁵	2x10 ⁵	2x10 ⁵	2x10 ⁵
Ar	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹
Ultimate pressure (mbar) (Torr)	<5x10 ⁻⁹ <3.8x10 ⁻⁹	<5x10 ⁻⁹ <3.8x10 ⁻⁹	<5x10 ⁻⁹ <3.8x10 ⁻⁹	<5x10 ⁻⁹ <3.8x10 ⁻⁹	<5x10 ⁻¹⁰ <3.8x10 ⁻¹⁰	<5x10 ⁻¹⁰ <3.8x10 ⁻¹⁰	<5x10 ⁻⁹ <3.8x10 ⁻⁹	<5x10 ⁻⁹ <3.8x10 ⁻⁹
Mass	2.9 Kg	2.9 Kg	3.0Kg	3.0Kg	4.4Kg	4.4Kg	3.2Kg	3.2Kg
	Forced air cooling (20°C Ambient)		Natural convection (35 °C Ambient)		Forced air cooling (40 °C Ambient)		Water cooling (40 °C Ambient)	
Maximum continuous backing pressure at ultimate inlet pressure (mbar)								
Nitrogen	18		10		11		17	
Maximum input flow sccm:								
Nitrogen	60		22		25		42	
Argon	21		7		7		15	
Helium	232		96		128		191	
Operation attitude	Vertical and upright to horizontal ± 2°							





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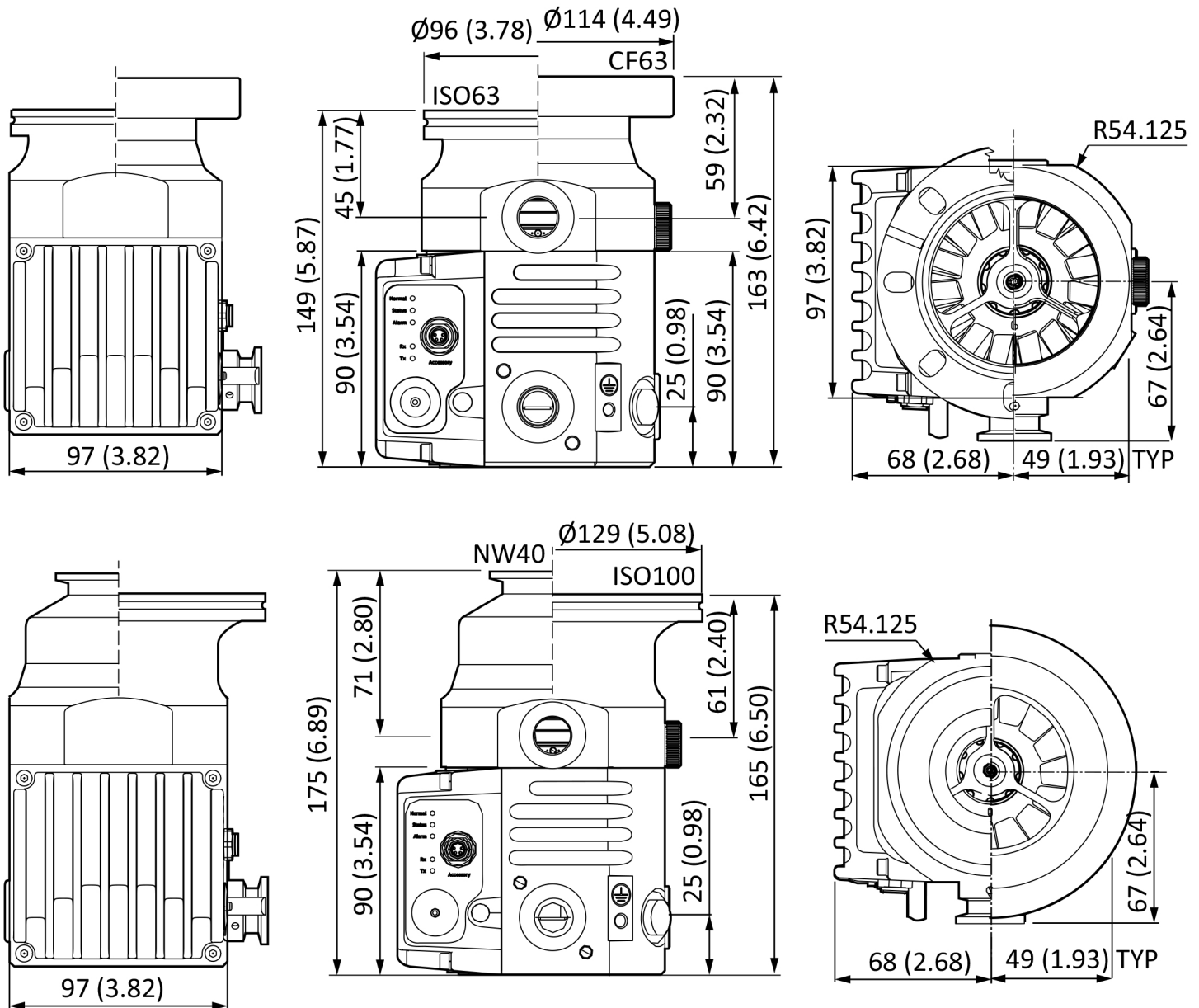
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Edwards nEXT-85D

Dimensions





Edwards nEXT-85D

Features & Benefits

- class leading performance with a reduced footprint
- flexibility from customised interstage & backing port position selection
- fully end-user servicable bearing & oil cartridge
- redesigned rotor to optimise pump performance & achieve higher speeds & compression
- low vibration levels

Applications

- analytical instrumentation • mass spectroscopy • electron microscopy
- metrology • sample preparation • surface science • high energy physics
- lasers • research laboratories • ophthalmic coating • thin film deposition
- optical coating • lighting • solar: photovoltaics & thermal

Pumping Curves

