



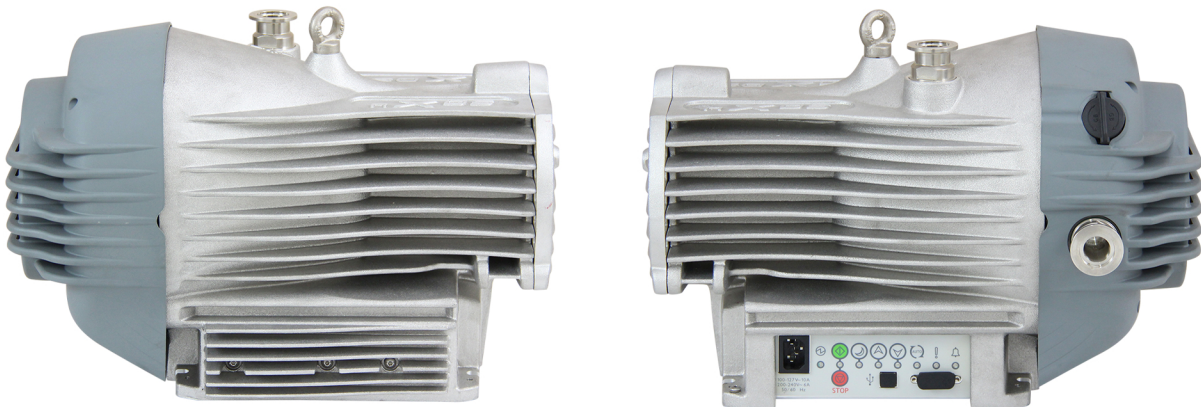
Edwards nXDS-6i, 10i, 15i, 20i

Technical Specifications

		nXDS6i	nXDS10i	nXDS15i	nXDS20i
Nominal rotational speed		1800 rpm			
Displacement	m ³ h ⁻¹ (ft ³ min ⁻¹)	6.8 (4.0)	12.7 (7.5)	17.1 (10.1)	28.0 (16.5)
Peak pumping speed	m ³ h ⁻¹ (ft ³ min ⁻¹)	6.2 (3.6)	11.4 (6.7)	15.1 (8.9)	22.0 (13.0)
Ultimate vacuum (total pressure)	mbar (Torr)	0.020 (0.015)	0.007 (0.005)	0.007 (0.005)	0.030 (0.022)
Minimum standby rotational speed	rpm	1200			
Speed control resolution (percentage of full rotation speed)	%	1			
Max inlet pressure for water vapour	mbar	35	35	35	20
Max water vapour pumping rate	gh ⁻¹	110	145	240	220
Maximum continuous inlet pressure	mbar	200	200	200	50
Voltage input	V	100-127, 200-240 (+/-10%)			
Voltage frequency	Hz	50/60			
Motor power 1-ph*	W	260	280	300	260
Power connector 1-ph		IEC EN60320 C13			
Recommended fuse		10A, 250V a.c. rms			
Weight	kg (lb)	26.2 (58)	25.8 (57)	25.2 (56)	25.6 (56)
Inlet flange		NW25			
Exhaust flange		NW25			
Noise level**	dB(A)	52			
Vibration at inlet flange	mms ⁻¹ (rms)	< 4.5			
Leak tightness (static)	mbar ls ⁻¹	< 1x10 ⁻⁶			
Operating temperature range	°C (°F)	+5 to +40 (+41 to +104)			

* Typical. See graphs on page 6.

** For low fan speed, typical at ultimate end when load/ambient conditions allow.





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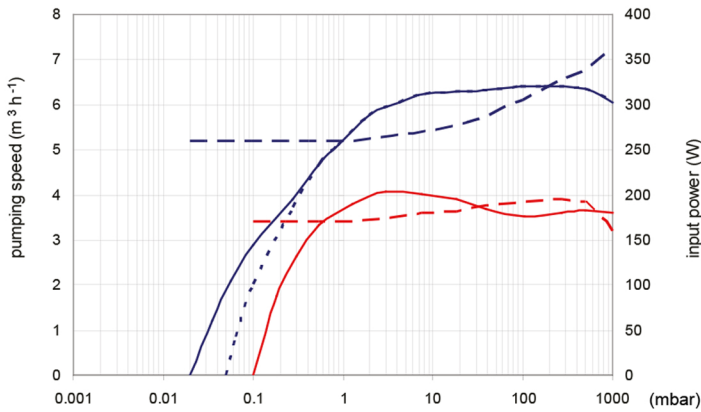
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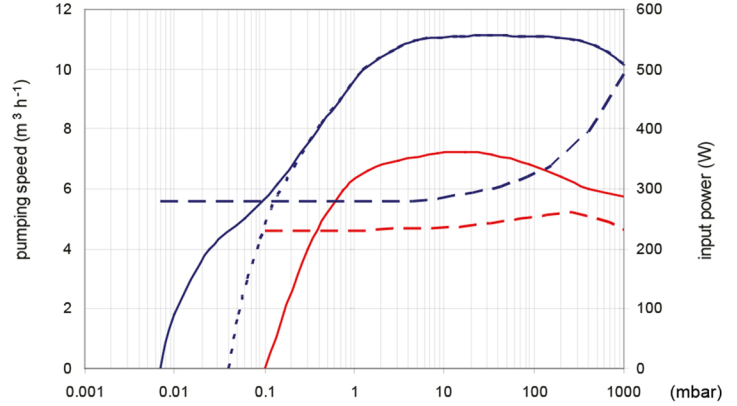
Edwards nXDS-6i, 10i, 15i, 20i Pumping Curves

nXDS-6i



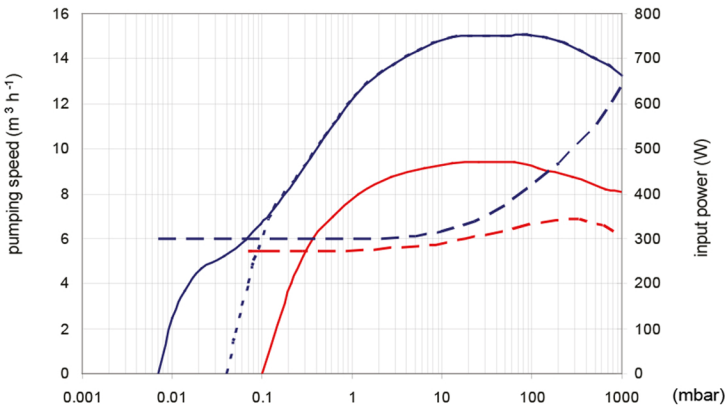
— normal pumping speed - - - min standby power
 - - - normal full power — min standby speed
 ··· normal GB speed

nXDS-10i



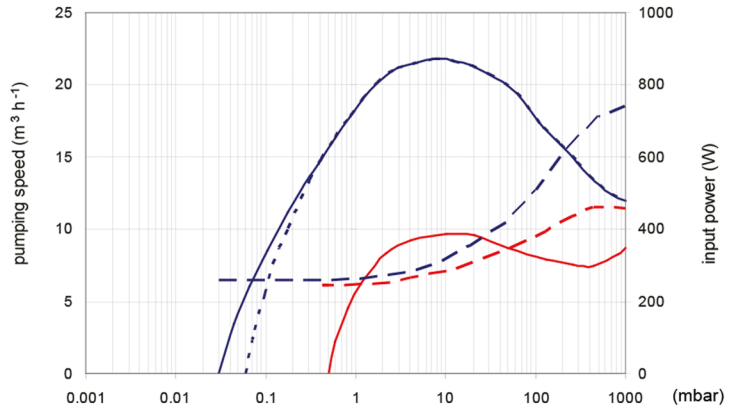
— normal pumping speed - - - min standby power
 - - - normal full power — min standby speed
 ··· normal GB speed

nXDS-15i



— normal pumping speed - - - min standby power
 - - - normal full power — min standby speed
 ··· normal GB speed

nXDS-20i



— normal pumping speed - - - min standby power
 - - - normal full power — min standby speed
 ··· normal GB speed



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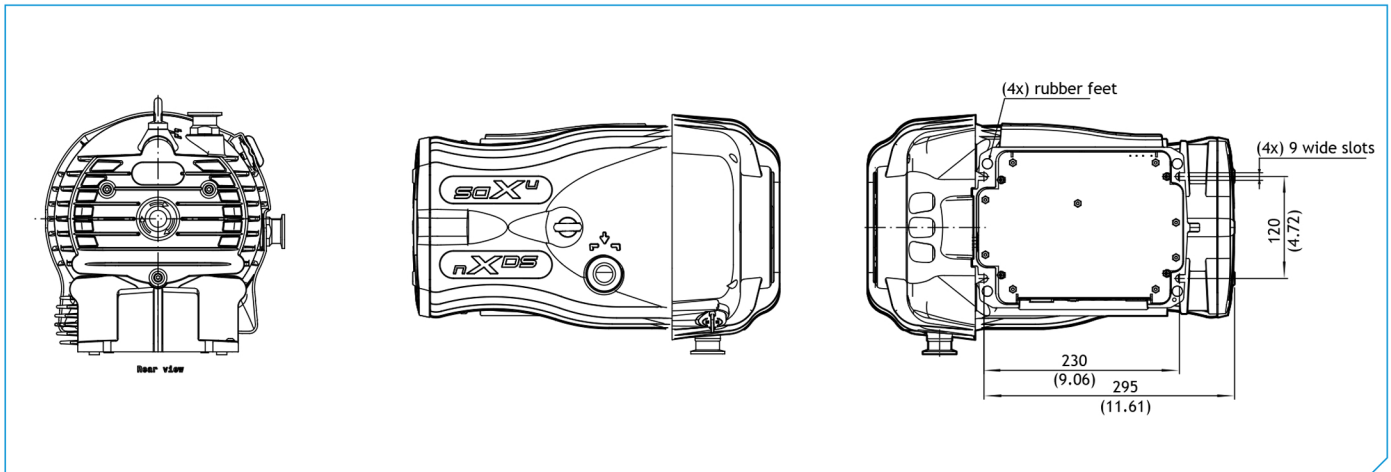
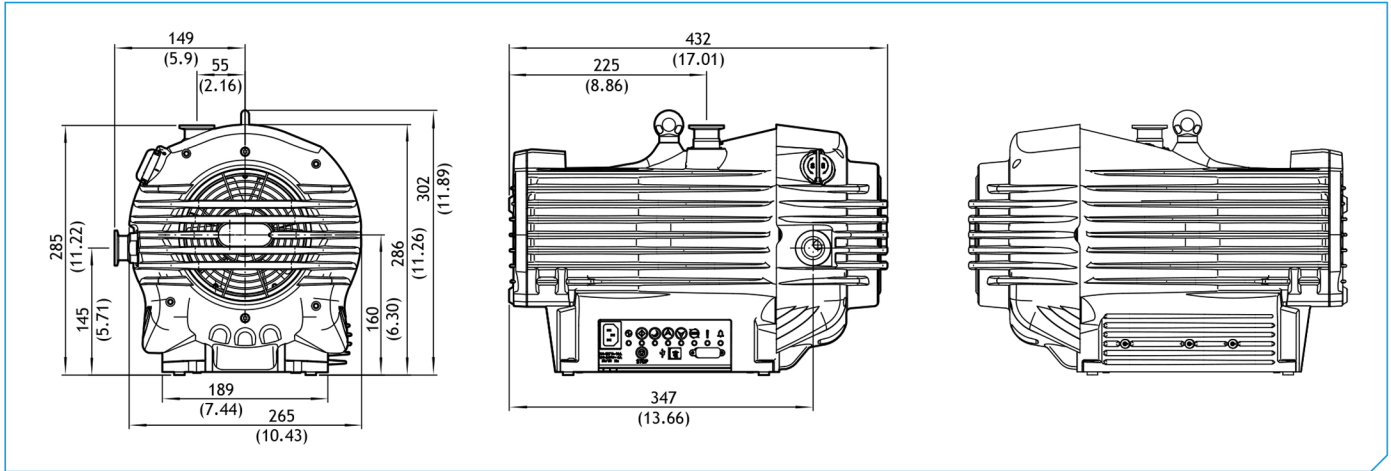
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Edwards nXDS-6i, 10i, 15i, 20i Dimensions



All variants are the same
Dimensions in mm (in)



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Edwards nXDS-6i, 10i, 15i, 20i Features & Benefits

- lubricant-free within the vacuum envelope and hermetically sealed (no cross contamination)
- advanced scroll-form and tip-seal technologies
- unique tip seal design significantly reduces wear
- quiet operation
- advanced interface - providing a variety of traditional, analogue & digital control methods enabling remote control/monitoring via RS232 or RS485
- integrated inverter drive with auto sensing input
- low power consumption
- low cost of ownership

Applications

Mass spectrometry

- GCMS, LCMS, ICPMS, MALDI, RGA, surface science, leak detectors

Electron microscopy

- TEM, SEM, sample coaters

Sample preparation

- Gel dryers, glove boxes, rotary evaporators, centrifuges

Research and development

- Chamber evacuation, coating systems, turbopump backing

High energy physics

- Beam lines, accelerators, mobile pump carts, turbopump backing, laser evacuation

Industrial

- Gas recovery and recirculation, glove boxes, brake line and air conditioning evacuation, coating systems, freeze drying, gas bottle filling/emptying, refrigeration system manufacture, degassing/curing (oil, epoxy resin)

Chemical

- Gel dryers, glove boxes, rotary evaporators, centrifuges, solvent recovery, distillation/extraction/filtration