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Edwards EXT-555H

Technical Specifications

Main inlet flange	DN160ISO-K / DN160CF
Outlet flange	DN25NW
Interstage port (Hi variants)	DN25NW
Vent port	1/8 inch BSP
Purge port	1/8 inch BSP
Inlet pumping speed*	
N_2	540 l s^{-1}
He	580 l s^{-1}
H_2	500 l s^{-1}
Ar	510 l s^{-1}
Interstage pumping speed (Hi variants)	
N_2	8 l s^{-1}
He	6 l s^{-1}
H_2	8 l s^{-1}
Compression ratio	
N_2	$>10^{10}$
He	10^8
H_2	10^6
Ar	$>10^{10}$
Ultimate pressure (CF variant)	$<10^{-10}$ mbar
Recommended backing pump	RV12
Maximum continuous inlet pressure (N_2, He, H_2)**	
forced air cooled, 30 °C ambient	$1x10^{-3}$ mbar
forced air cooled, 35 °C ambient	$5x10^{-4}$ mbar
water cooling at 15 °C	$2x10^{-3}$ mbar
Nominal rotational speed	50000 rpm
Start time to 90% speed	
EXC250	5 min
EXC300	6.5 min
EXDC160	8 min
Cooling method	forced air / water
Ambient air temperature for forced air cooling	0 °C - 35 °C
Recommended cooling water flow rate (water at 15 °C)	15 l h^{-1}
Water temperature	10 - 20 °C
Maximum inlet flange temperature	80 °C
Noise level at 1m	<60 dBA
Maximum magnetic field (standard envelopes)	
Axial	< 7 mT
Radial	< 3 mT
Maximum magnetic field (martensitic envelopes)	
Axial	< 50 mT
Radial	< 50 mT
Recommended controllers	EXC250, EXC300
Quiescent power consumption	35 W

* Measured without inlet screen. Inlet screens are supplied fitted and reduce speed by up to 20%

** With backing pressure < 0.3 mbar. Above this inlet pressure rotational speed drops.

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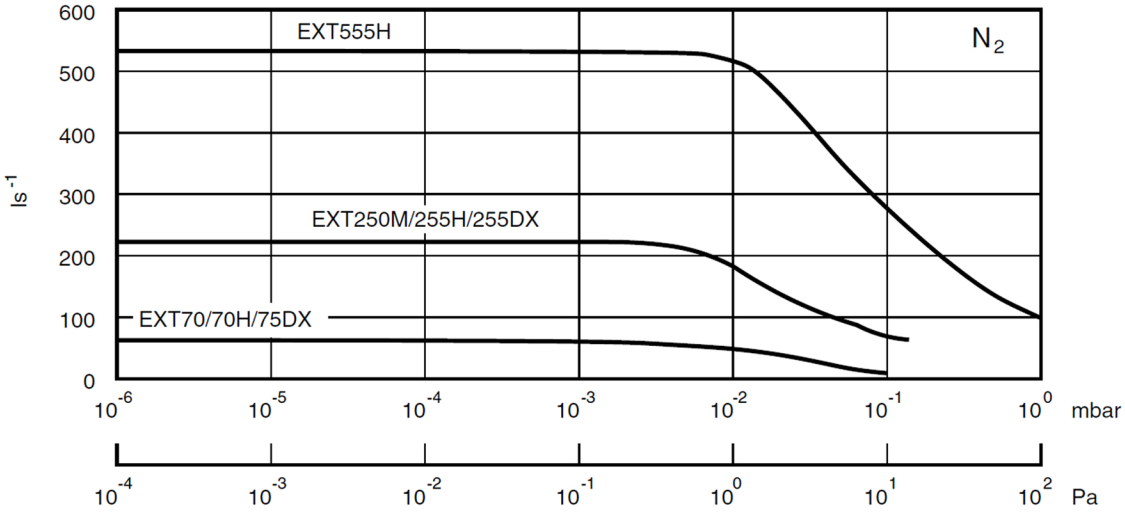
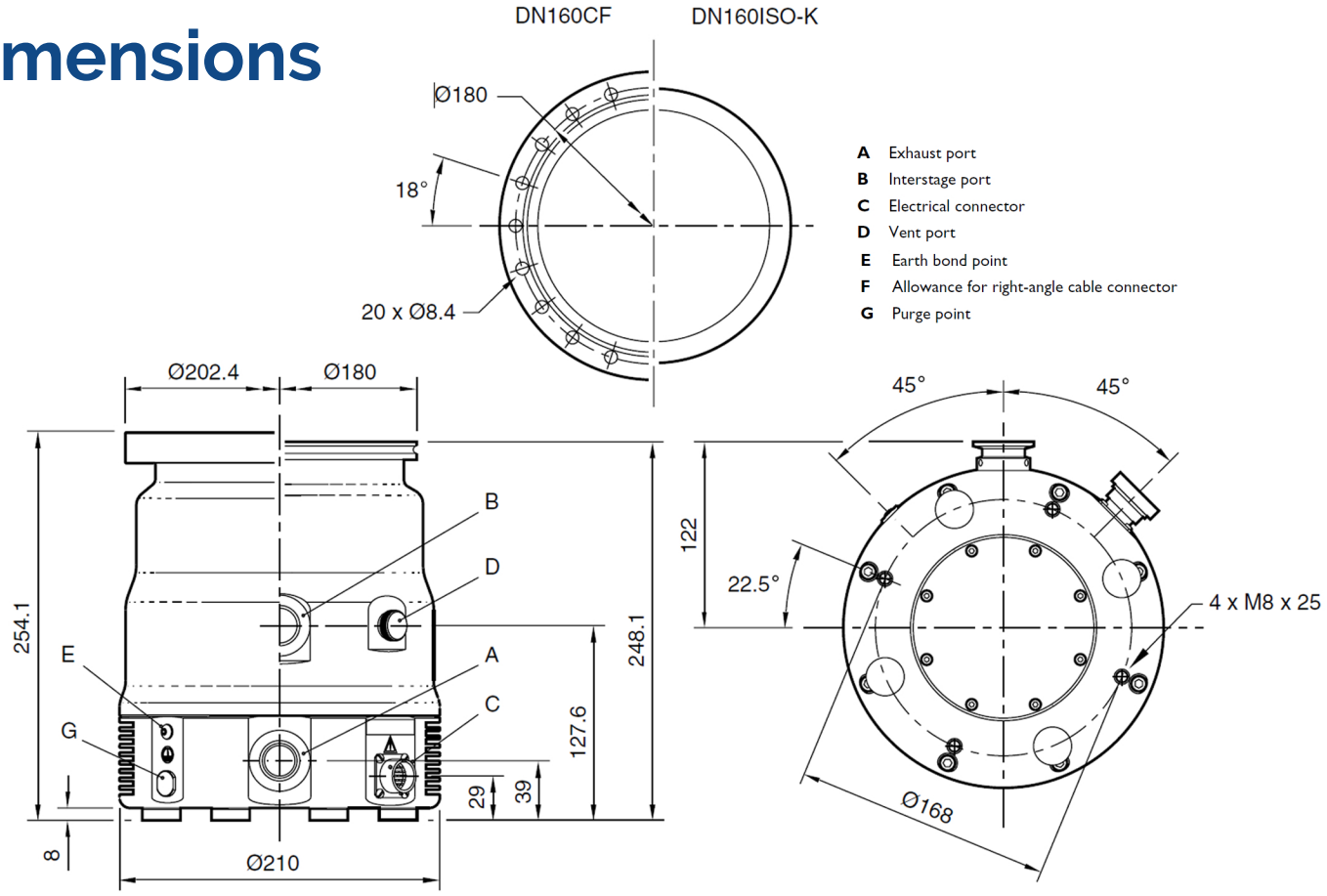
Pumping Curves



Dimensions



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Features & Benefits

- state of the art technology
- reliable, hydrocarbon-free, high vacuum
- compatible with TIC turbo and instrument controller
- multiple communication modes available
- high critical backing pressures / high compression ratios
- low vibration performance
- ceramic bearing
- enhanced monitoring cabability including pump speed, power & temperature

Applications

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