



Edwards EXT-200/200/30

Technical Specifications

Parameter	EXT200/200/30	Notes
Mass	10.62 kg	
Main inlet-flange	Rectangular	96 x 60 mm
Side inlet-flange	Rectangular	96 x 60 mm
Interstage inlet-flange	Rectangular	96 x 20 mm
Outlet-flange	DN25NW	
Vent-port	1/8 inch BSP	
Main inlet pumping speed		
N ₂ ^{†‡}	159 l s ⁻¹	Pb < 5 mbar (500 Pa)
He ^{†‡}	180 l s ⁻¹	Pb < 1 mbar (100 Pa)
H ₂ ^{†‡}	155 l s ⁻¹	Pb < 0.5 mbar (50 Pa)
Side inlet pumping speed		
N ₂ ^{†‡}	217 l s ⁻¹	Pb < 5 mbar (500 Pa) P _i = 5 x 10 ⁻³ mbar (0.5 Pa)
He ^{†‡}	195 l s ⁻¹	Pb < 1 mbar (100 Pa) P _i = 5 x 10 ⁻³ mbar (0.5 Pa)
H ₂ ^{†‡}	137 l s ⁻¹	Pb < 0.5 mbar (50 Pa) P _i = 5 x 10 ⁻³ mbar (0.5 Pa)
Interstage pumping speed [†]		
N ₂ ^{†‡}	28 l s ⁻¹	Pb = 5 mbar (500 Pa) P _i = 5 x 10 ⁻¹ mbar (50 Pa)
He ^{†‡}	28 l s ⁻¹	Pb = 5 mbar (500 Pa) P _i = 5 x 10 ⁻¹ mbar (50 Pa)
H ₂ ^{†‡}	24 l s ⁻¹	Pb = 5 mbar (500 Pa) P _i = 5 x 10 ⁻¹ mbar (50 Pa)
Compression ratio from the backing port to the main inlet		
N ₂	>1 x 10 ⁷	
He	1 x 10 ⁶	
H ₂	2.8 x 10 ⁴	
Compression ratio from the side inlet to the main inlet		
N ₂	5.5 x 10 ³	
He	2.5 x 10 ²	
H ₂	5 x 10 ¹	
Minimum backing pump displacement	0.6 m ³ h ⁻¹	
Maximum continuous inlet pressure - air-cooling at 35 °C ambient ^{††*}		Air-cooling is beneficial to the EXDC controller
Main inlet	2 x 10 ⁻⁴ mbar (2 x 10 ⁻² Pa)	Results applicable to B756-10-000
Side inlet	2 x 10 ⁻³ mbar (2 x 10 ⁻¹ Pa)	Pb = 6.25 mbar (625 Pa)
Interstage inlet	3.5 x 10 ⁻² mbar (3.5 Pa)	
Nominal rotational speed	60000 r min ⁻¹	
Standby rotational speed	42000 r min ⁻¹	EXC controller only



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Technical Specifications cont.

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Starting time to 90% speed		
EXDC160	146 sec	
EXC100E	309 sec	
EXC120	248 sec	
EXC300	161 sec	
Cooling method	Forced-air	
Ambient air temperature (forced-air cooling)	0 - 35 °C	
Noise level (at 1 metre)	< 50 dB(A)	
Recommended controller	EXDC160	
EXDC160 maximum VA input	250 VA	
Quiescent power	25 W	
Recommended backing pump ^{††}	RV3	

* P_b = backing pressure,

P_i = Inlet pressure,

† Pumping speeds are without inlet-screen.

Inlet-screens reduce speed by approximately 10% for main and side inlets and by approximately 4% at interstage inlet.

‡ With an E2M28 backing pump.

** Inlet pressure has risen to 10^{-3} mbar.

†† Above this pressure, rotational speed drops below nominal.

‡‡ A larger backing pump may be required for maximum throughput.

Dimensions

