PROVAC SALES
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Edwards EXT-250

Technical Specifications

	DN100CF	DN100ISO-K
Pumping speed *		
Nitrogen	240 l s^{-1}	240 l s^{-1}
Helium	250 l s^{-1}	250 l s^{-1}
Hydrogen	190 l s^{-1}	190 l s^{-1}
Compression ration		
Nitrogen	> 1 x 10^{8}	> 1 x 10^{8}
Helium	2 x 10^{4}	2 x 10^{4}
Hydrogen	1500	1500
Ultimate pressure †	< 5 x 10^{-10} mbar < 5 x 10^{-8} Pa	< 5 x 10^{-9} mbar < 5 x 10^{-7} Pa
Maximum continuous inlet pressure ‡		
Water-cooling at 15 °C		
with EXC100/120	1 x 10^{-1} mbar 1 x 10^{1} Pa	1 x 10^{-1} mbar 1 x 10^{1} Pa
with EXC300	3 x 10^{-1} mbar 3 x 10^{1} Pa	3 x 10^{-1} mbar 3 x 10^{1} Pa
Air-cooling at 35 °C	3 x 10^{-2} mbar 3 x 10^{0} Pa	3 x 10^{-2} mbar 3 x 10^{0} Pa
Nominal rotational speed	60000 r min^{-1}	60000 r min^{-1}
Standby rotational speed	42000 r min^{-1}	42000 r min^{-1}
Starting time to 90% speed		
with EXC120/120E	100 sec	100 sec
with EXC300	90 sec	90 sec
Recommended Controller	EXC100/120	EXC100/120
EXC120/E maximum input	250 VA	250 VA
EXC120/E normal power	60 VA	60 VA
Other compatible Controller	EXC300	EXC300
EXC300 maximum input	480 VA	480 VA
EXC300 normal power	60 VA	60 VA
Quiescent power consumption	25 W	25 W

* *Pumping speeds are without inlet-screen. Inlet-screens are supplied fitted and reduce speed by approximately 10%.*

† *Ultimate pressure 48 hours after bakeout with 2-stage rotary vane backing-pump.*

‡ *Above this pressure, rotational speed drops below nominal.*

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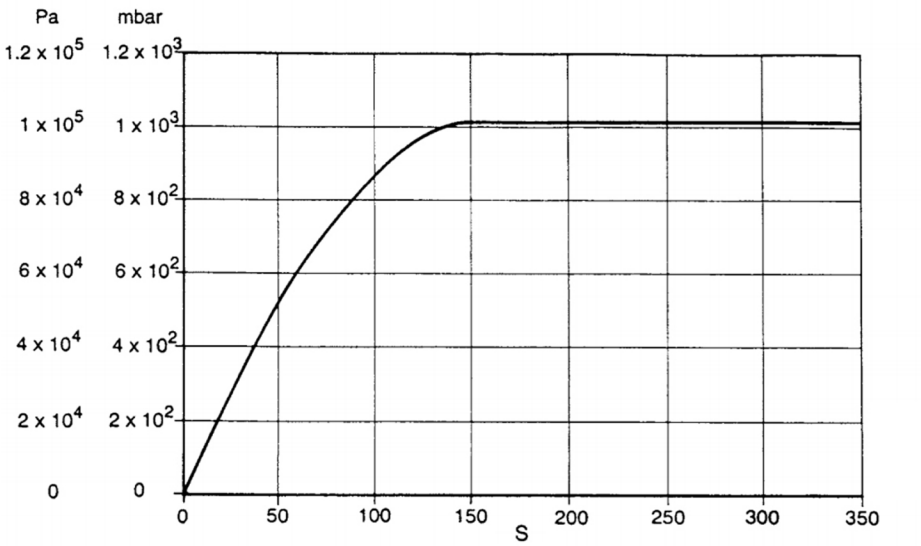
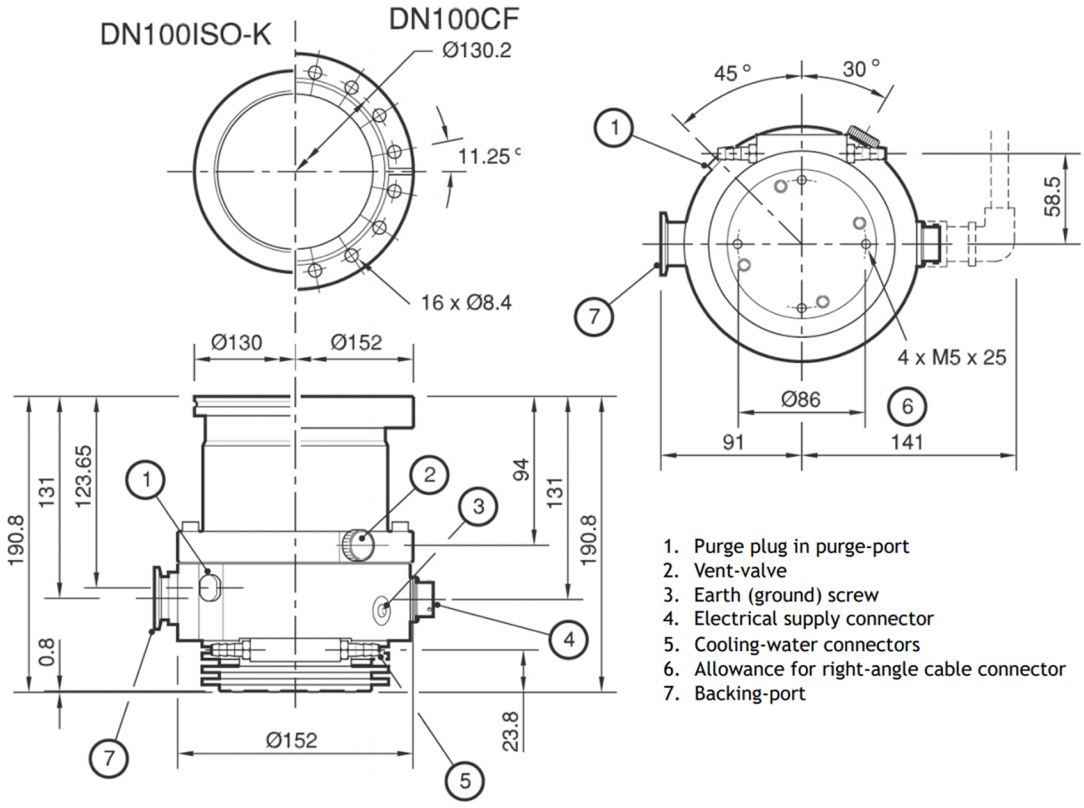
Pumping Curves



Maximum allowed rate of pressure rise during venting: system pressure (Pa/mbar, with the backing pump isolated) against time (s), with the pump initially at full rotational speed

Dimensions



1. Purge plug in purge-port
2. Vent-valve
3. Earth (ground) screw
4. Electrical supply connector
5. Cooling-water connectors
6. Allowance for right-angle cable connector
7. Backing-port

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Applications

- mass spectrometry • GCMS • LCMS • ICPMS • electron microscopy
- surface analytical equipment • fusion technology • space research
- laser systems • electron tube manufacturing • physics experiments
- RGA • nuclear physics • thin film • vacuum metallurgy • powder materials processing