



# Edwards EXT-556H, EXT-556HF

## Technical Specifications

Parameter	EXT556H	Notes
Mass EXT556H DN160ISO-K	13.4 kg	
Mass EXT556H DN160CF	21.2 kg	
Mass EXT556HF DN160ISO-K	19.3 kg	
Mass EXT556HF DN160CF	20.5 kg	
Main inlet flange	DN160ISO-K/DN160CF	
Outlet flange	DN25NW	
Vent port	1/8 inch BSP	
Purge port	1/8 inch BSP	
Inlet pumping speed <sup>*</sup>		
N <sub>2</sub>	540 l s <sup>-1</sup>	
He	580 l s <sup>-1</sup>	
H <sub>2</sub>	500 l s <sup>-1</sup>	
Ar	510 l s <sup>-1</sup>	
Inlet compression ratio		<sup>†</sup>
N <sub>2</sub>	>10 <sup>10</sup>	Pb < 20 mbar
He	10 <sup>8</sup>	Pb < 12 mbar
H <sub>2</sub>	10 <sup>6</sup>	Pb < 7 mbar
Ar	>10 <sup>10</sup>	Pb < 20 mbar
Ultimate pressure <sup>‡</sup>		
CF	<10 <sup>-10</sup> mbar	
ISO	<2 x 10 <sup>-9</sup> mbar	
Minimum backing pump displacement	12 m <sup>3</sup> h <sup>-1</sup>	
Recommended backing pump	RV12	
Maximum continuous inlet pressure (light gas pumping) <sup>**</sup>		These pressures relate to the aluminium envelope variant B777-51-000. Performance will vary for other pump variants when air cooled.
Forced air cooled, 30 °C ambient	1.5 x 10 <sup>-3</sup> mbar	
Forced air cooled, 35 °C ambient	1.0 x 10 <sup>-3</sup> mbar	
Water cooling at 15 °C	2.0 x 10 <sup>-3</sup> mbar	
Maximum continuous inlet pressure (argon pumping) <sup>**</sup>		These pressures relate to the aluminium envelope variant B777-51-000. Performance will vary for other pump variants when air cooled.
Forced air cooled, 30 °C ambient	8.0 x 10 <sup>-4</sup> mbar	
Forced air cooled, 35 °C ambient	5.0 x 10 <sup>-4</sup> mbar	
Water cooling at 15 °C	1.0 x 10 <sup>-3</sup> mbar	Water cooling while pumping high concentrations of argon is not recommended



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## Technical Specifications cont.

Parameter	EXT556H	Notes
Maximum continuous backing pressure (light gas pumping)**		These pressures relate to the aluminium envelope variant B777-51-000. Performance will vary for other pump variants when air cooled.
Forced air cooled, 30 °C ambient	10 mbar	
Forced air cooled, 35 °C ambient	6 mbar	
Water cooling at 15 °C	7.5 mbar	
Maximum continuous backing pressure (argon pumping)**		These pressures relate to the aluminium envelope variant B777-51-000. Performance will vary for other pump variants when air cooled.
Forced air cooled, 30 °C ambient	2.9 mbar	
Forced air cooled, 35 °C ambient	1.8 mbar	
Water cooling at 15 °C	2.2 mbar	Water cooling while pumping high concentrations of argon is not recommended
Operating attitude	See note at right	Vertical (inlet uppermost) to Horizontal, not inverted. Range of rotation of $\pm 60^\circ$ about the axis. Refer to Figure 1.
Nominal rotational speed	50000 rpm	
Start time to 90% speed:		
EXC250	< 8 minutes	
EXC300	< 8 minutes	
EXDC160	< 8 minutes	

## Dimensions

