

## Technical Data

Product: TURBOVAC 450 iX  
 Part No.: 830081V3300

Inlet connection:	DN 160 CF	
Outlet connection:	DN 25 ISO-KF	
Pumping speed		
N <sub>2</sub> - Nitrogen:	430 l/s	
Ar - Argon:	400 l/s	
He - Helium:	440 l/s	
H <sub>2</sub> - Hydrogen:	420 l/s	
Gas throughput		
N <sub>2</sub> - Nitrogen:	4.5 mbar x l/s	
Ar - Argon:	2.0 mbar x l/s	
He - Helium:	8.0 mbar x l/s	
H <sub>2</sub> - Hydrogen:	8.0 mbar x l/s	
Compression ratio		
N <sub>2</sub> - Nitrogen:	1,0 x 10 <sup>11</sup>	
Ar - Argon:	1,0 x 10 <sup>11</sup>	
He - Helium:	1,0 x 10 <sup>8</sup>	
H <sub>2</sub> - Hydrogen:	1,0 x 10 <sup>6</sup>	
Ultimate pressure:	< 1.0 x 10 <sup>-10</sup> mbar	< 7.5 x 10 <sup>-11</sup> Torr
Max. foreline pressure for N <sub>2</sub> :	10.0 mbar	7.5 Torr
Nominal rotation speed:	60000 min <sup>-1</sup>	60000 rpm
Rotational speed adaptation:	50 -100%	
Run -up time:	≈ 5.5 min	
Admissible ambient temperature:	5 - 45°C	41 - 113°F
Standard cooling:	Convection	
Optional cooling	Air / Water	
Cooling water connection:	plug connection for 6x1 hose alternative G 1/8" screw in thread	
Cooling water consumption:	50 - 100 l/h	
Permissible cooling water pressure:	3 - 6 bar	
Permissible cooling water temperature:	15 - 35°C	
Dimensions:	See dimension sheet	
Weight:	≈13.0 kg	≈ 28.7 lbs
Noise level:	≤ 44 db(A)	

Technical data are subject to change

## Technical Data

Technical data for integrated drive electronics

Integrated vacuum system controller:	yes
Mains connection:	24/48 V DC $\pm$ 10%
Max. current consumption:	10 A at 24 V DC
Max. power consumption:	240 W
Power consumption at ultimate pressure:	20 W
Interfaces:	RS 485, USB, 15-Pin digital I/O
Protection class:	IP 40

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