

Technical Data

Product: TURBOVAC 450 i - without Integrated Vacuum System Controller
 Part No.: 830071V1000

Inlet connection:	DN 160 ISO-K	
Outlet connection:	DN 25 ISO-KF	
Pumping speed		
N ₂ - Nitrogen:	430 l/s	
Ar - Argon:	400 l/s	
He - Helium:	440 l/s	
H ₂ - Hydrogen:	420 l/s	
Gas throughput		
N ₂ - Nitrogen:	4.5 mbar x l/s	
Ar - Argon:	2.0 mbar x l/s	
He - Helium:	8.0 mbar x l/s	
H ₂ - Hydrogen:	8.0 mbar x l/s	
Compression ratio		
N ₂ - Nitrogen:	1,0 x 10 ¹¹	
Ar - Argon:	1,0 x 10 ¹¹	
He - Helium:	1,0 x 10 ⁸	
H ₂ - Hydrogen:	1,0 x 10 ⁶	
Ultimate pressure:	< 8.0 x 10 ⁻⁸ mbar	< 6.0 x 10 ⁻⁸ Torr
Max. foreline pressure for N ₂ :	10.0 mbar	7.5 Torr
Nominal rotation speed:	60000 min ⁻¹	60000 rpm
Rotational speed adaptation:	50 -100%	
Run -up time:	≈ 5.5 min	
Admissible ambient temperature:	+5 to +45°C	+41 to +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 to +35°C	+59 to +95°F
Noise level**:	≤ 44 db(A)	
Dimensions:	see dimension sheet	
Weight:	≈ 7.8 kg	≈ 17.2 lbs

** with convection cooling

Technical data are subject to change

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Technical data for integrated drive electronics

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

Recommended Fore Vacuum Pumps:	TRIVAC D 4 B SCROLLVAC SC 5 D SCROLLVAC SC 15 D DIVAC 3.8 HV3
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