Technical Data

Product: TURBOVAC 250 i - without Integrated Vacuum System Controller
Part No.: 820051V1000

Inlet connection:	DN 100 ISO-K	
Outlet connection:	DN 16 ISO-KF	
Pumping speed		
N_2 - Nitrogen:	225 l/s	
Ar - Argon:	210 l/s	
He - Helium:	250 l/s	
H_2 - Hydrogen:	210 l/s	
Gas throughput		
N_2 - Nitrogen:	6.0 mbar x l/s	
Ar - Argon:	3.0 mbar x l/s	
He - Helium:	6.0 mbar x l/s	
H_2 - Hydrogen:	> 10.0 mbar x l/s	
Compession ratio		
N_2 - Nitrogen:	1.0×10^{11}	
Ar - Argon:	1.0×10^{11}	
He - Helium:	-	
H_2 - Hydrogen:	2.0×10^{7}	
Ultimate pressure:	$< 8.0 \times 10^{-8}$ mbar	$< 6.0 \times 10^{-8}$ Torr
Max. foreline pressure for N_2 :	14.0 mbar	10.5 Torr
Nominal rotation speed:	72000 min^{-1}	72000 rpm
Rotational speed adaptation:	62 - 100 %	
Run -up time:	≈ 2 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:	30 - 60 l/h	
Permissible cooling water pressure:	3 - 6 bar	
Permissible cooling water temperature:	+15 to +35°C	+59 to +95°F
Noise level**:	≤ 41 db(A)	
Dimensions:	see dimension sheet	
Weight:	≈ 4.0 kg	≈ 8.8 lbs

** with convection cooling

Technical data are subject to change

Technical Data

Technical data for integrated drive electronics

Mains connection:	24/48 V DC, ± 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 2,5 E TRIVAC D 4 B SCROLLVAC SC 5 D SCROLLVAC SC 15 D DIVAC 3.8 HV3

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