## **Technical Data**

## Product:TURBOVAC 90 iX - with Integrated Vacuum System ControllerPart No.:810041V3300

Inlet connection:	DN 63 CF	
Outlet connection:	DN 16 ISO-KF	
Pumping speed		
N <sub>2</sub> - Nitrogen:	90 I/s	
Ar - Argon:	83 I/s	
He - Helium:	90 I/s	
H <sub>2</sub> -Hydrogen:	78 l/s	
Gas throughput		
N <sub>2</sub> - Nitrogen:	10 mbar x l/s	
Ar - Argon:	3 mbar x l/s	
He - Helium:	11 mbar x l/s	
H <sub>2</sub> - Hydrogen:	11 mbar x l/s	
Compession ratio		
N <sub>2</sub> - Nitrogen:	1.0 x 10 <sup>11</sup>	
Ar - Argon:	1.0 x 10 <sup>11</sup>	
He - Helium:	-	
H <sub>2</sub> - Hydrogen:	$5.0 \times 10^7$	
Ultimate pressure:	< 5.0 x 10 <sup>-10</sup> mbar	< 3.8 x 10 <sup>-10</sup> Torr
Max. foreline pressure for N <sub>2</sub> :	14.0 mbar	10.5 Torr
Nominal rotation speed:	72000 min <sup>-1</sup>	72000 rpm
Rotational speed adaptation:	62 - 100 %	
Run -up time:	≈ 1.5 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:	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:	≈ 5.3 kg	≈ 11.7 lbs

 $\ast\ast$  with convection cooling

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, ± 10%	
Max. current consumption:	10 A at 24 V DC	
Max. power consumption:	240 W	
Power consumption at ultimate pressure (24V/48V):	7 W / 9.5 W	
Interfaces:	USB+, 15-Pin digital I/O, RS485	
Protection class:	IP 40	

Recommended Fore Vacuum Pumps:

TRIVAC D 2,5 E TRIVAC D 4 B SCROLLVAC SC 5 D DIVAC 1.4 HV3

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