

Technical Data

Product: TURBOVAC 90 iX - with Integrated Vacuum System Controller
 Part No.: 810031V3300

Inlet connection:	DN 63 ISO-K	
Outlet connection:	DN 16 ISO-KF	
Pumping speed		
N ₂ - Nitrogen:	90 l/s	
Ar - Argon:	83 l/s	
He - Helium:	90 l/s	
H ₂ - Hydrogen:	78 l/s	
Gas throughput		
N ₂ - Nitrogen:	10 mbar x l/s	
Ar - Argon:	3 mbar x l/s	
He - Helium:	11 mbar x l/s	
H ₂ - Hydrogen:	11 mbar x l/s	
Compression ratio		
N ₂ - Nitrogen:	1.0 x 10 ¹¹	
Ar - Argon:	1.0 x 10 ¹¹	
He - Helium:	-	
H ₂ - Hydrogen:	5.0 x 10 ⁷	
Ultimate pressure:	< 8.0 x 10 ⁻⁸ mbar	< 6.0 x 10 ⁻⁸ Torr
Max. foreline pressure for N ₂ :	14.0 mbar	10.5 Torr
Nominal rotation speed:	72000 min ⁻¹	60000 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:	≈ 3.6 kg	≈ 7.9 lbs

** with convection cooling

Technical data are subject to change

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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 (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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