

9 Technical data

9.1 Power supply

	5305 Basic device	5305 Complete system
Mains connection:	230 V, 50 to 60 Hz 120 V, 50 to 60 Hz 100 V, 50 to 60 Hz	230 V, 50 to 60 Hz 120 V, 50 to 60 Hz 100 V, 50 to 60 Hz
Current consumption:	2.1 A (230 V) 6.0 A (120 V) 5.2 A (100 V)	1.7 A (230 V) 5.6 A (120 V) 3.8 A (100 V)
Power consumption:	max. 500 W (230 V) max. 550 W (120 V) max. 520 W (100 V)	max. 350 W (230 V) max. 400 W (120 V) max. 380 W (100 V)
Overvoltage category:	II	
Fuses:	4.0 AT (230 V) 6.3 AT (120 V/100 V)	

9.2 Ambient conditions

Environment:	For indoor use only.
Ambient temperature:	15 to 35 °C
Max. relative humidity:	75 %, non-condensing humidity
Atmospheric pressure:	Use at altitudes up to 2000 m above MSL.
Degree of pollution:	2

9.3 Weight / dimensions

	5305 Basic device	5305 Complete system incl. gel dryer
Dimensions:	Width: 330 mm (12.6 in.) Depth: 372 mm (14.5 in.) Height: 231 mm (9.1 in.)	Width: 330 mm (12.6 in.) Depth: 579 mm (20.9 in.) Height: 290 mm (11.7 in.)
Weight without rotor:	16.5 kg (37.5 lbs.)	31.5 kg (68.3 lbs.)
Noise level:	≤ 50 dB(A)	≤ 50 dB(A)

9.4 Diaphragm vacuum pump for the complete system

Max. current:	1.4/1.6 A (230 V, 50/60 Hz) 3.0 A (120 V, 50 Hz) 3.6/3.8 A (100 V, 50/60 Hz)
Max. power:	180 W (230/120/100 V)
Motor protection:	Thermal winding protection
Protection class according to IEC 529:	IP 54
Suction capacity (in accordance with DIN EN 60529; VDE 0470-1):	1.9/2.1 m ³ /h (50/60 Hz)
Achievable ultimate pressure (absolute):	<20 mbar
Max. permissible pressure at the outlet (absolute):	2 bar
Max. differential pressure between inlet and outlet:	1 bar
Nominal speed at 50/60 Hz:	1.500/1.800 rpm
Radio interference protection class	B

Materials of surfaces that are in contact with the medium

Inner part of housing cover:	PTFE, with carbon reinforcement
Head cover, diaphragm clamping disc:	ETFE, with carbon reinforcement
Valve:	FFKM
Diaphragm:	PTFE
Inlet:	ETFE
Outlet:	ETFE
Screw connection:	ETFE
Hose:	PTFE

9.5 Application parameters

Run time:	1 min to 9:59 h, infinitely (∞), adjustable in 1 min increments.
Speed:	1,400 rpm, not adjustable
Max. relative centrifugal force (rcf):	248 x g, not adjustable
Max. load:	96 micro test tubes of 2.0 mL each or 6 Falcon tubes of 50 mL each.
Permitted density of material for centrifuging (at max. rcf/speed and max. load):	1.2 g/mL
Emission condenser volume:	280 mL