

3.2 Technical data overview

Table 3-5: Technical data

	Vacuum Controller V-850/855
Dimensions casing (W x H x D)	160 x 105 x 120 mm
Weight	540 g
Power supply	30 VDC for connection Rotavapor R-210/215, Vacuum Pump V-700/710 or power pack 85-264 V
Frequency	50 / 60 Hz
Power consumption	10 W
Interfaces	USB (data transmission), RS 232/RS 485 (communication), remote control, cooling water valve, Switch Box, vacuum valve
Environmental conditions	For indoor use only, altitude up to 2000 m, 10–40 °C, maximum relative humidity 80 % for temperatures up to 30 °C
Magnetic valve supply	24 V
Vacuum connection	GL-14
Measuring principle	Capacitive
Measuring range	1400–0 mbar
Control range	1100–1 mbar
Accuracy	± 2 mbar (± 1 digit) following alignment at constant temperature
Temperature response	0.07 mbar/K ⁻¹
Display range	0–1400 mbar
Hysteresis	Automatic or 1–500 mbar
Overvoltage category	II
Pollution degree	2
Conformity	CSA / CE

3.3 Materials used

Table 3-6: Materials used

Component	Material designation
Pressure foil	Polyester
Casing	PBT
Diaphragm (aeration valve)	Kalrez
Aeration valve	PEEK