

3.5 Technical data

3.5.1 Rotavapor® R-300

Specification	Value
Dimensions (W x H x D) with glass apparatus V	607 x 947 x 429 mm
Weight	13.5 kg (electric lift) 13.0 kg (manual lift)
Power supply	100 – 240 VAC ± 10%
Power consumption	100 W
Frequency	50/60 Hz
Ingress protection rating	IP21
Overvoltage category	II
Pollution degree	2
Immersion angle	10 – 50°
Vertical adjustment range	220 mm
Limit position detection adjustment range	170 mm (electric lift) 100 mm (manual lift)
Rotation speed range	10 – 280 rpm
Max. flask capacity	3 kg
Approval	CE/CSA

3.5.2 Heating bath base, B-300

Specification	Value
Dimensions (W x H x D)	183 x 82 x 286 mm
Weight	0.8 kg
Power supply	100 - 120 VAC ± 10% 220 - 240 VAC ± 10%
Frequency	50/60 Hz
Power consumption (with bath)	1500 W
Ingress protection rating	IP21
Approval	CE/CSA

3.5.3 Heating bath

Specification	Heating Bath B-301	Heating Bath B-305
Dimensions (W x H x D)	225 x 192 x 212 mm	307 x 202 x 275 mm
Weight	2.0 kg	4.2 kg
Power supply	100 - 120 VAC ± 10% 220 - 240 VAC ± 10%	100 - 120 VAC ± 10% 220 - 240 VAC ± 10%
Frequency	50/60 Hz	50/60 Hz
Power consumption	1250 W	1500 W

Specification	Heating Bath B-301	Heating Bath B-305
Ingress protection rating	IP21	IP21
Maximum bath capacity	2.3 l	5.5 l
Regulation precision	At 60 °C: ± 1 °C At 95 °C: ± 1 °C	At 60 °C: ± 1 °C At 95 °C: ± 1 °C At 180 °C: ± 3 °C At 220 °C: ± 4 °C
Heating fluid	Water	Water/Oil
Approval	CE/CSA	CE/CSA

3.5.4 Ambient conditions

Max. altitude above sea level	2000 m
Ambient temperature	5 - 40 °C
Maximum relative humidity	80 % for temperatures up to 31 °C decreasing linearly to 50 % at 40 °C

The laboratory apparatus described here may only be used indoors.

3.5.5 Materials

Component	Material
Rotavapor casing	Aluminum with powder coating
Heating bath casing	PBT, partially glass-fiber reinforced
Heating bath	Stainless steel 1.4404, glass-peened
Protection shield	PMMA
Protection shield handle	PBT
Rotary drive unit	Steel 1.4305
Flange connection to condenser	Aluminum, anodized
Seal	NBR, PTFE coated
Glass components	Borosilicate 3.3