22. Technical Specifications

22.1 Dimensions, material and the permissible temperature ranges of the baths

Bath	Material	Tempera-ture (°C)	Bath opening (mm) w. holder	w. bridge	Bath depth (mm)	Volume (l) from..to	Dimensions (WxDxH) [1] (mm)
W12P	P	0..60	–	300 x 165	150	9..12	310 x 335 x 340
W18P	P	0..60	–	300 x 340	150	15..19	310 x 510 x 340
V	S	–5..150	300 x 325	300 x 175	200	10..15	535 x 335 x 400
W13	S	..200	300 x 325	300 x 175	150	7..12	335 x 360 x 350
W15	S	..200	300 x 325	300 x 175	200	10..15	335 x 360 x 400
W19	S	..200	300 x 500	300 x 350	150	12..19	335 x 535 x 350
W26	S	..200	300 x 500	300 x 350	200	20..26	335 x 535 x 400
W45	S	..200	–	300 x 500	300	37..42	360 x 540 x 510
W46	S	..200	–	300 x 700	200	26..44	360 x 910 x 410
B3	S	..200	–	130 x 100	150	3	200 x 300 x 375
K15	S	–28..150	–	130 x 100	150	4,5	385 x 465 x 415
K20	S	–28..150	–	130 x 100	150	4,5	230 x 460 x 590

P = Polyacryl, S = Stainless steel

[1] Height including temperature control module

22.2 Technical specifications of the refrigerated baths

		K15	**K20**	**V**
Voltage	V	230 ± 10 % or 115 ± 10 % or 100 ± 10 %		
Frequency	Hz	50 (230 V) 60 (230 V) 60 (115 V) 50–60 (100 V)		50 (230 V) 60 (230 V) 60 (115 V) 50–60 (100 V)
Total wattage con-sumption	VA	2600 (230 V) 1600 (115 V) 1600 (100 V)		2550 (230 V) 1500 (115 V) 1500 (100 V)
Additional connections		Mains socket for temperature control module N_{max} = 2100 VA(230 V) N_{max} = 1300 VA(115 V) N_{max} = 1100 VA(100 V)		

22.3 Technical specifications of the temperature control modules acc. to DIN 58966

		C1	DC1	DC3	DL3	DC5
Operating temperature *)	°C	–10..100	–30..100	–30..150	–30..200	–50..200
Temperature accuracy	+/– K	0.05	0.02	0.01	0.02	0.01
Heater capacity 230V	W	1000	1000	1500	2000	2000
Heater cap. 115V + 100V	W	1000	1000	1200	1500	1200
Pump pressure max.	mbar	300	300	300	300	300
Circulation capacity (open)	l/min	17	17	17	17	17
Max. flow rate during circulation using 12 mm ø hoses	l/min	12.5	12.5	12.5	12.5	12.5
Immersion depth from..to	mm	85..140	85..140	95..140	95..240	95..140
Voltage	V	230 ± 10 % or 115 ± 10 % or 100 ± 10 %				
Frequency	Hz	50 or 60 (at 230 V) or 60 (at 115 V) or 50–60 (at 100 V)				
Total wattage consumption	VA	1050	1050	1550 (230 V) 1250 (115 V) 1250 (100 V)	2050 (230 V) 1550 (115 V)	2050 (230 V) 1250 (115 V) 1250 (100 V)
Safety class acc. to DIN		1W	1W	2	2	2
Excess temp. protection		variable	variable	variable	variable	variable
Low liquid level protection		–	–	fixed	fixed	fixed
Motor overload protection		yes	yes	yes	yes	yes
Alarm signalling		optical	optical	opt. + acoust.	opt. + acoust.	opt. + acoust.
FIS system		–	–	yes	yes	yes
Temperature setting		analog	digital	digital	digital	digital
Setting limitation		–	–	yes	yes	yes
Temperature display		thermometer	LED green	LED green	LED green	LED green
RTA system		–	yes	yes	yes	yes
Control type		ON/OFF	ON/OFF	PID	PID	PID
Control sensor		analog IC	digital IC	Pt100	Pt100	Pt100
RS 232 C		–	–	–	–	yes

* The working temperature range is dependant on the cooling selected.

22.4 Fuse values

Unit type	Mains voltage	Fuse(s) at the rear panel	Fuse(s) in the unit
C1	230 V	2x6 A	1xT0,125 mA
	115 V	1x10 A	1xT0,125 mA
	100 V	1x12 A	1xT0,125 mA
DC1	230 V	2x6 A	1xT40 mA
	115 V	1x10 A	1xT63 mA
	100 V	1x12 A	1xT63 mA
DC3	230 V	2x10 A	1xT40 mA
	115 V	1x15 A	1xT63 mA
	100 V	1x12 A	1xT63 mA
DL3	230 V	2x10 A	1xT40 mA
	115 V	1x15 A	1xT63 mA
DC5	230 V	2x10 A	1xT40 mA
	115 V	1x15 A	1xT63 mA
	100 V	1x12 A	1xT63 mA
K15	230 V	2x10 A/2x5 A	
	115 V	1x12 A/1x6 A	
	100 V	1x12 A/1x6 A	
K20	230 V	2x10 A/2x5 A	
	115 V	1x12 A/1x6 A	
	100 V	1x12 A/1x6 A	
V–Bad	230 V	2x10 A/2x5 A	
	115 V	1x12 A/1x6 A	
	100 V	1x12 A/1x6 A	