22. Technical specifications

22.1 Technical specifications of the temperature control module DC10 according to DIN 58966

Operating temperature *)	°C	–30..100
Temperature accuracy	+/– K	0.02
Heater capacity 230V / 115V	W	2000 / 1200
Pump pressure max.	mbar	300
Circulation capacity (open)	l/min	17
Max. flow rate during circulation using 12 mm ø hoses	l/min	12.5
Immersion depth from..to	mm	85..140
Voltage	V	230 ±10% or 115 ±10%
Frequency 230V / 115V	Hz	50..60 / 60
Total wattage consumption 230V / 115V	VA	2050 / 1250
Safety elements according to category		NFL
Excess temp. protection		variable
Motor overload protection		yes
Alarm signalling		optical
FIS-system		yes
Temperature setting		digital
Setting limitation		yes
Temperature display		LED green
RTA-system		yes
Control type		PID
Control sensor		digital IC

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

22.2 Fuse values

Mains voltage	Fuse(s) at the rear panel
230 V	2x10 A
115 V	1x15 A
100 V	1x15 A

22.3 Technical specifications of the refrigerated baths

		K10	K15	K20	V15	V26
Voltage	V	230 ± 10 % 115 ± 10 %	230 ± 10 % or 115 ± 10 % or 100 ± 10 %			
Frequency	Hz	50 (230 V) 60 (230 V) 60 (115 V)	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 consumption	VA	2300 (230 V) 1600 (115 V)	2600 (230 V) 1600 (115 V) 1600 (110 V)		2550 (230 V) 1500 (115 V) 1500 (110 V)	
Additional connections		Mains socket for temperature control module N_{max} = 2100 VA(230 V) N_{max} = 1300 VA(115 V) N_{max} = 1300 VA(100 V)				

22.4 Fuse values

Unit type	Mains voltage	Fuse(s) at the rear panel
K10	230 V	2x10 A/2x5 A
	115 V	1x12 A/1x6 A
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
V15	230 V	2x10 A/2x5 A
	115 V	1x12 A/1x6 A
	100 V	1x12 A/1x6 A
V26	230 V	2x10 A/2x5 A
	115 V	1x12 A/1x6 A
	100 V	1x12 A/1x6 A

22.5 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)
W5P	P	0..60	–	120 x 240	150	4..6	170 x 400 x 340
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
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
P5	I	0..100	–	130 x 175	160	5	160 x 330 x 360
P14	I	0..100	–	300 x 190	160	14	330 x 380 x 360
P21	I	0..100	–	300 x 380	160	21	330 x 570 x 360
B3	S	..200	–	130 x 100	150	3	200 x 300 x 375
B5	S	..250	–	140 x 150	150	4.5	210 x 360 x 380
B7	S	..300	–	130 x 100	200	7	230 x 360 x 440
B12	S	..300	–	220 x 140	200	12	320 x 380 x 440
V15	S	–5..150	300 x 325	300 x 175	200	10..15	340 x 540 x 400
V26	S	–10..150	300 x 500	300 x 350	200	20..16	360 x 750 x 400
K10	S	–10..150	–	130 x 100	150	3	195 x 355 x 570
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

I = Integral bath vessel made of PPO (modified)

[1] Approx. height including temperature control module