

MKF and MKFT series

Environmental simulation chambers

with water cooling

For the models of the MKF 115 | 240 | 720 series
MKFT 720 series

- ▶ High cooling capacity
- ▶ High heat compensation
- ▶ Rapid cooling down time
- ▶ Low energy consumption
- ▶ High energy efficiency
- ▶ No room heating thanks to controlled heat dissipation
- ▶ Switchable between water and air cooling*



▶ Standard equipment

- Electronically controlled APT.line™ preheating chamber technology
- MCS controller which can store 25 programs of 100 sections each for a maximum of 500 program segments
- Electronically controlled humidification and dehumidification system with capacitive humidity sensor and vapor pressure humidification
- Integrated water storage tank
- Heated viewing window with LED interior lighting
- Programmable condensation protection for test material
- Adjustable ramp function via program editor
- Independent adjustable temperature safety device Class 2
- 4 potential-free relay outputs that can be activated via MCS controller
- Ethernet interface for communication software APT-COM™ DataControlSystem
- BINDER APT-COM™ 3 Basic Edition communication software
- Access port Ø 50 mm, left side (MKF 115, 240)
- 2 access ports Ø 80 mm, left and right side (MKF 720, MKFT 720)
- 4 casters (2 with locking brake)
- 1 shelf, stainless steel
- Water cooling
- Equipment with wastewater and freshwater connection
- Water supply can be switched ON/OFF from a button on the side control panel*

* (MKF 115 and MKF 240 models)

MKF and MKFT series with Water Cooling

Technical Data



Exterior dimensions	MKF 115	MKF 240	MKF 720	MKFT 720
Width (mm)	1000	1135	1615	1613
Height (incl. castors) (mm)	1725	1715	2005	2005
Depth plus 50 mm door handle (mm)	915	1000	1230	1230
Interior dimensions				
Width (mm)	600	735	1200	1200
Height (mm)	480	700	1020	1020
Depth (mm)	400	443	600	600
Interior volume (l)	115	228	734	734
Quantity of racks (standard/max.)	1/4	1/6	1/11	1/11
Load per rack (kg)	30	30	40	40
Permitted total load (kg)	60	70	160	160
Weight (empty) (kg)	280	360	590	635
Temperature data				
Temperature range (°C)	-40 - 180	-40 - 180	-40 - 180	-70 - 180
Temperature uniformity (± K)	0,1 - 0,5	0,1 - 0,4	0,1 - 0,5	0,1 - 0,5
Temperature fluctuation (± K)	0,1 - 1,1	0,1 - 1,3	0,1 - 1,8	0,3 - 2,0
Average heating up time acc. to IEC 60068-3-5 1) (K/min.)	5,5	5	4,8	4,8
Average cooling down time acc. to IEC 60068-3-5 1) (K/min.)	4,8	5	4,8	4,0
Max. heat compensation (kW)	2,5	2,8	6,5	5,0
Climatic data				
Temperature range (°C)	10 - 95	10 - 95	10 - 95	10 - 95
Humidity range (% r.H.)	0,1-1,3	0,1-1,3	0,1-1,3	0,1 - 1,0
Humidity fluctuation (± % r.H.)	10 - 98	10 - 98	10 - 98	10 - 98
Temperature fluctuation (± K)	≤ 2,5	≤ 2,5	≤ 2,5	≤ 2,5
Max. heat compensation at 25 °C / 90% r.H. (kW)	0,4	0,4	1	0,8
Electrical data				
Nominal voltage (±10%) 50 Hz (V)	400 3N~	400 3N~	400 3N~	400 3N~
Nominal power (kW)	4,5	6,8	11	13,0
Energy consumption at 25 °C / 60% r.H. (Wh/h)	1150	1300	2500	2200
Order number MKF	9020-0107	9020-0132	9020-0198	9020-0083
Order number option Water Cooling	8012-0843	8012-0842	8012-0804	8012-0758

All technical specifications are specified for units with standard equipment at an ambient temperature of 25 °C and a voltage fluctuation of ±10%. The temperature data are determined in accordance with factory standard following DIN 12880. All values have been specified at a fan speed of 100%. All indications are average values, typical for units produced in series. We reserve the right to alter technical specifications at all times.

 Latest Information and technical data at:
www.binder-world.com