

# Thermodynamics & Microelectronics

## MPC-Thermostats

Simple Low-Cost Thermoregulation



-30...200 °C

**huber**

# Simple Low-Cost Thermoregulation

MPC-Thermostats: Thermoregulation from -30 to 200 °C.

## Infinitely variable

The MPC-range comprises of the immersion circulator "MPC-E" and a bath. The bath is available in different sizes and materials. The polycarbonate baths (A) are transparent with operating temperatures up to 100 °C. The insulated stainless steel baths (B) have a maximum working temperature of 200 °C. MPC refrigeration circulators comprise of an immersion circulator (MPC-E) and a refrigerated bath (K).

## Microprocessor Control MPC

Simple – Low-Cost – functional!

The modern Low-Cost controllers do without the unique benefits of the Plug & Play Technology. Unnecessary features have been consciously removed. You only pay for what you need. When safety is being considered nothing is compromised. Only three keys are required to operate the unit and the display is simple to understand.

## Open for communication

For an additional cost the MPC-controller is offered in an "Advanced" Version. The functionality is extend to include an RS232 digital interface and the facility for an external sensor.

## Unique in this price class

All models have a powerful pressure and suction pump. With a pump adapter and level controller (option) it is suitable for external open systems.

## Environmentally friendly refrigeration

Huber refrigeration machines had stopped using CFCs and HCFCs (R22) years before the prohibition and therefore have a zero ozone depletion potential (ODP). To bring the greenhouse effect also to zero, MPC Cooling Circulators use natural refrigerants.



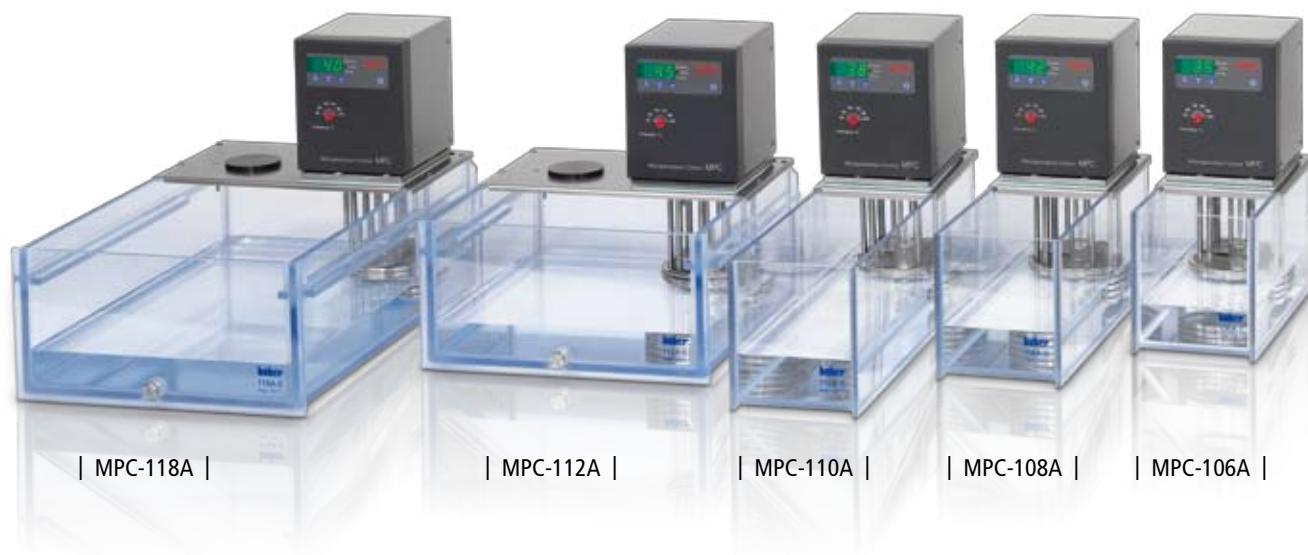
**Top Fact**  
with pressure/suction pump

**Safety First**  
Safety classification 3  
Level protection, Adjustable overtemperature protection

Model	Temperature Range (°C)	Temperature Stability* (K)	Heating Power (kW)	Pump Data				Safety Class**	Dimensions W x D x H (mm) / ID (mm)	Cat.No.	G
				max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)						
MPC-E	(-30) 25..200	0,05	2,0	20	0,2	17	0,18	FL, III	132x153x312/150	2035.0001.99	1

Also available as Advanced model \* to DIN 12876, measured in al stainless steel tank 12 litres \*\* FL for flammable liquids, III = adjustable overtemperature protection and addition low-liquid level protection

Polycarbonate baths up to 100 °C



| MPC-118A |

| MPC-112A |

| MPC-110A |

| MPC-108A |

| MPC-106A |

# MPC-Heating Thermostats

Stainless steel baths up to 200 °C



| MPC-225B |

| MPC-220B |

| MPC-215B |

| MPC-212B |

| MPC-208B |

Model	Temp. max. (°C)	Heating (kW)	Bath			Pump Data				Dimensions WxDxH (mm)	Cat.No.	G
			Opening (mm)	Depth (mm)	Volume (ltr)	max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)					
MPC-106A	100	2	130x110	150	6	20	0,2	17	0,18	147x307x330	2037.0001.99	1
MPC-108A	100	2	130x210	150	8	20	0,2	17	0,18	147x407x330	2037.0002.99	1
MPC-110A	100	2	130x310	150	10	20	0,2	17	0,18	147x507x330	2037.0003.99	1
MPC-112A	100	2	303x161	150	12	20	0,2	17	0,18	333x360x335	2037.0004.99	1
MPC-118A	100	2	303x321	150	18	20	0,2	17	0,18	333x520x335	2037.0005.99	1
MPC-208B	200	2	230x127	150	8,5	20	0,2	17	0,18	290x350x375	2038.0001.99	1
MPC-212B	200	2	290x152	150	12	20	0,2	17	0,18	350x375x375	2038.0002.99	1
MPC-215B	200	2	290x152	200	15	20	0,2	17	0,18	350x375x425	2038.0003.99	1
MPC-220B	200	2	290x329	150	20	20	0,2	17	0,18	350x555x375	2038.0004.99	1
MPC-225B	200	2	290x329	200	25	20	0,2	17	0,18	350x555x425	2038.0005.99	1

Safety class FL, III

Also available as Advanced model

# MPC Cooling Circulators

Combinations of immersion circulators and insulated refrigeration baths are low-cost solutions for direct thermoregulation for the temperature range -20/-30 °C to 200 °C. The refrigeration baths operate with natural refrigerants. A pump adapter can be fitted for thermoregulation of externally closed and externally open\* applications. The temperature stability according to DIN 12876 is 0,05 K.

The K6 models have compact refrigeration bath circulators. The powerful K6s-mpc-NR with 260 Watt cooling power at 20 °C is a low cost alternative to the Ministat® 125, the smallest refrigeration circulator in the world and bestseller since 1976.

\*with option level control



| K12-mpc-NR, K15-mpc-NR |

| K20-mpc-NR, K25-mpc-NR |

| K6-mpc-NR |  
| K6s-mpc-NR |

Model	Temp. Range (°C)	Heating Power (kW)	Bath			Pump Data				Cooling Power (kW) at (°C)			Dimensions W x D x H (mm)	Cat.No.	G
			Opening (mm)	Depth (mm)	Volume (ltr)	max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	0	-10	-20					
K6-mpc-NR	-25..200	2	140x120	150	4,5	20	0,2	17	0,18	0,15	0,1	0,05	210x400x546	2008.0007.99	2
K6s-mpc-NR	-25..200	2	140x120	150	4,5	20	0,2	17	0,18	0,21	0,15	0,05	210x400x546	2008.0008.99	2
K12-mpc-NR	-20..200	2	290x152	150	12	20	0,2	17	0,18	0,2	0,12	0,05	350x560x430	2009.0005.99	2
K15-mpc-NR	-20..200	2	290x152	200	15	20	0,2	17	0,18	0,2	0,12	0,05	350x560x430	2010.0005.99	2
K20-mpc-NR	-30..200	2	290x329	150	20	20	0,2	17	0,18	0,35	0,27	0,16	350x555x615	2011.0005.99	2
K25-mpc-NR	-30..200	2	290x329	200	25	20	0,2	17	0,18	0,35	0,27	0,16	350x555x615	2012.0005.99	2

Safety class FL, III

Also available as Advanced model

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high precision thermoregulation