

# Technology you will love



**KISS<sup>®</sup>** Circulators



Best value for money



Simple operation



Temperatures from -30 °C to +200 °C



Natural refrigerants



RS232 & USB interfaces



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**huber**  
high precision thermoregulation

Safe & Simple:

# The new KISS<sup>®</sup> lab circulators

KISS Cooling and heating circulators for laboratory applications from -30 to +200 °C

*Under the brand name KISS Huber Kältemaschinenbau presents a new model series with economical cooling and heating circulators. KISS stands for "Keeping Innovation „Safe & Simple“ and describes what the customer may expect from the devices: innovative technology with safe and simple operation!*

The new KISS circulators are ideally suited for routine laboratory applications such as sample temperature control,

analyses and material testing as well as the external temperature control of measuring devices and test setups. You can choose from over 50 models for heating and cooling. This applies to all models: KISS circulators are low-cost, however they do have all equipment features required in daily laboratory work.

### As standard with USB, RS232 and OLED

The list of equipment features has grown even longer with KISS. Apart from an RS232 interface, it now also has a USB interface as standard. Another new addition is a modern OLED display with intuitive menu navigation in plain text. The new white display can be read well at all times, even in

brighter environments. Another advantage is the simultaneous display of actual temperature and setpoint value, as well as high/low temperature limit values.

The controls are reduced to the essential, therefore the operation remains always easy and clear. As a factory fitted option, a connection socket for a Pt100 probe can be fitted. This permits the display (not control) e.g. of an external process temperature. The socket can be ordered at an additional cost.



### Easy operation, stylish design

The housing is made from high-grade stainless steel. Therefore the devices are very robust and have a very elegant appearance. However, far more important is the practicality and also here are KISS circulators a good choice for most temperature applications. Starting with the simple commissioning, the space-saving design to the low-noise operation, KISS circulators are ideal for laboratory applications. Switch on, set setpoint value and press start - temperature control could not be easier.

### Safe and reliable

In line with the motto „Safe & Simple“, KISS devices do not only offer easy operation, but also meet the highest standards in terms of safety. All models are equipped with an over temperature and low level protection to class III/FL (DIN 12876) and are thus also suited for flammable liquids. Moreover, KISS circulators are a safe option from the technical application perspective. This is can be seen with the circulating

pump, which generates a capacity of 14 l/min; 0.25 bar (pressure side) / 10.5 l/min; 0.17 bar (suction side) and thus ensures optimal mixing and homogeneous temperatures. The temperature stability is  $\pm 0.05$  Kelvin, which is sufficient for most standard applications. A pump adapter is available as accessory, which permits external temperature control via hose connections.

### Temperatures from -30 to +200 °C

The KISS range comprises an immersion circulator with screw clamp as well as different baths. The baths are available either in transparent polycarbonate (up to +100 °C) or high-grade stainless steel (up to +200 °C). The filling volume of the baths is from 6 to 25 litres, depending on the model. For cooling applications we offer cooling circulators for working temperatures down to -30 °C. As standard, these models already work with natural refrigerants and are therefore friendly to the environment and climate. Additionally, the cooling machines have an



Fig. 2:  
The new OLED display shows all important data clearly: setpoint value, actual value, temperature limits as well as status of the pump, heating and cooling systems.



Fig. 3:  
KISS circulators are equipped with a USB and RS232 interface as standard. Optionally (factory fitted), an additional connection socket for a Pt100 measuring probe is available (Order-No. 10519).





**Fig. 4:**  
*KISS-baths are available in transparent polycarbonate or stainless steel. The range of volumes is from 6 to 25 litres.*

automatic cooling capacity adjustment that reduces the energy consumption and the waste heat to a minimum. The finishing touch to the range is a range of useful accessories like test tube inserts, platforms, bath covers, probes, hoses and temperature control liquids.

Furthermore, there is a free software for remote control, recording of measuring data and visualisation called „SpyLight“.

The new KISS range of circulators replaces the MPC range and is planned to be available as from February 2017.

**Fig. 5:**  
*KISS circulators are available in three colour options: grey (standard), red and blue.*



## Heating Immersion Circulator

Model	Temperature Range (°C)	Temperature Stability <sup>1</sup> (K)	Heating Power (kW)	Pump Data				Safety Class <sup>2</sup>	Dimensions W x D x H / ID <sup>3</sup> (mm)	Cat.No.	G
				max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)						
KISSE	(-30)* 25...200	0,05	2,0	14	0,25	10,5	0,17	FL, III	132x153x312/150	2035.0012.98	1

<sup>1</sup> to DIN 12876, measured in a stainless steel tank 12 litres

<sup>2</sup> FL for flammable liquids, III = adjustable overtemperature protection and addition low-liquid level protection

<sup>3</sup> Immersion Depth

\* Auxiliary cooling device required

## Heating Baths with Polycarbonat bath, to +100°C

Model	Temperature Range (°C)	Heating Power (kW)	Bath			Pump Data				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)					
KISS 106A	(15)* 25...100	2,0	130x110	150	6	14	0,25	10,5	0,17	147x307x330	2037.0043.98	1
KISS 108A	(15)* 25...100	2,0	130x210	150	8	14	0,25	10,5	0,17	147x407x330	2037.0045.98	1
KISS 110A	(15)* 25...100	2,0	130x310	150	10	14	0,25	10,5	0,17	147x507x330	2037.0047.98	1
KISS 112A	(15)* 25...100	2,0	303x161	150	12	14	0,25	10,5	0,17	333x360x335	2037.0049.98	1
KISS 118A	(15)* 25...100	2,0	303x321	150	18	14	0,25	10,5	0,17	333x520x335	2037.0051.98	1

\* Auxiliary cooling device required

Safety class III/FL

## Heating Baths with stainless steel bath, to +200°C

Model	Temperature Range (°C)	Heating Power (kW)	Bath			Pump Data				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)					
KISS 208B	(-30)* 25...200	2,0	230x127	150	8,5	14	0,25	10,5	0,17	290x350x375	2038.0053.98	1
KISS 212B	(-30)* 25...200	2,0	290x152	150	12	14	0,25	10,5	0,17	350x375x375	2038.0052.98	1
KISS 215B	(-30)* 25...200	2,0	290x152	200	15	14	0,25	10,5	0,17	350x375x425	2038.0051.98	1
KISS 220B	(-30)* 25...200	2,0	290x329	150	20	14	0,25	10,5	0,17	350x555x375	2038.0050.98	1
KISS 225B	(-30)* 25...200	2,0	290x329	200	25	14	0,25	10,5	0,17	350x555x425	2038.0049.98	1

\* Auxiliary cooling device required

## Cooling Baths, to -30°C

Model	Working 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			
KISS K12	-20...200	2,0	290x152	150	12	14	0,25	10,5	0,17	0,2	0,12	0,05	350x560x430	2009.0020.98	2
KISS K15	-20...200	2,0	290x152	200	15	14	0,25	10,5	0,17	0,2	0,12	0,05	350x560x430	2010.0017.98	2
KISS K20	-30...200	2,0	290x329	150	20	14	0,25	10,5	0,17	0,35	0,27	0,16	350x555x615	2011.0013.98	2
KISS K25	-30...200	2,0	290x329	200	25	14	0,25	10,5	0,17	0,35	0,27	0,16	350x555x615	2012.0015.98	2
KISS K6	-25...200	2,0	140x120	150	4,5	14	0,25	10,5	0,17	0,20	0,15	0,05	210x400x546	2008.0043.98	2
KISS K6s	-25...200	2,0	140x120	150	4,5	14	0,25	10,5	0,17	0,26	0,21	0,05	210x400x546	2008.0044.98	2

Safety class III/FL

All units use natural refrigerant as standard



Reliable, environmentally friendly and best value for money:

# Thermoregulation from Huber



Quality  
Made in Germany



Excellent value  
for money



Unique  
Plug & Play



Case studies for  
performance comparison



Proven  
technology



Worldwide  
Sales & Services



Accurate information  
according to DIN 12876



Safe investment  
due to E-grade function



Maximum safety for  
operator and application



Environmentally friendly  
with natural refrigerant



Connections for  
USB and network



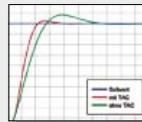
Models for all  
applications



Time saving heat-up  
and cool-down times



Easy-to-use  
operation



State of the art technology  
guarantees highest precision



Free-of-charge  
warranty extension



Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

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