



Inspired by **temperature**

KISS® Circulators – Temperature control made easy



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



KISS® lab circulators

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 sensor 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 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 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, sensors, hoses and temperature control liquids. Furthermore, there is a free software for remote control, recording of measuring data and visualisation called "Spy-Light".



Menu Navigation

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

Interfaces

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



Baths

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

Colour Options

KISS circulators are available in three colour options: grey (standard), red (Order-No. 61998) and blue (Order-No. 61999).

Immersion Circulator

Model	Temperature range (°C)	Temperature stability (K)	Heating power (kW)	max. pressure (l/min) (bar)		Pump data max. Sog (l/min) (bar)		Safety class	Dimensions W x D x H / ID¹ (mm)	Cat.No.	G
KISS E	(-30)* 25...200	0,05	1,5 - 2,1	14	0,25	10,5	0,17	FL, III	132x163x312/150	2035.0012.98	1

* Auxiliary cooling device required (see glossary "Working Temperature Range") ¹ Immersion Depth

Heating Circulators with polycarbonate bath

Model	Temperature range (°C)	Heating power (kW)	opening WxD (mm)	Bath depth (mm)	volume (ltr)	max. pressure (l/min) (bar)		Pump data max. suction (l/min) (bar)		Dimensions W x D x H (mm)	Cat.No.	G
KISS 106A	(15)* 25...100	1,5 - 2,1	130x110	150	4,4	14	0,25	10,5	0,17	147x307x330	2049.0003.98	1
KISS 108A	(15)* 25...100	1,5 - 2,1	130x210	150	6,0	14	0,25	10,5	0,17	147x407x330	2050.0003.98	1
KISS 110A	(15)* 25...100	1,5 - 2,1	130x310	150	7,5	14	0,25	10,5	0,17	147x507x330	2051.0003.98	1
KISS 112A	(15)* 25...100	1,5 - 2,1	275x161	150	12,0	14	0,25	10,5	0,17	333x360x335	2052.0003.98	1
KISS 118A	(15)* 25...100	1,5 - 2,1	275x321	150	18,0	14	0,25	10,5	0,17	333x520x335	2053.0003.98	1

* Auxiliary cooling device required (see glossary "Working Temperature Range") Temperature stability: CC ±0,02 K ; KISS ±0,05 K

Heating Circulators with stainless steel bath

Model	Temperature range (°C)	Heating power (kW)	opening WxD (mm)	Bath depth (mm)	volume (ltr)	max. pressure (l/min) (bar)		Pump data max. suction (l/min) (bar)		Dimensions W x D x H (mm)	Cat.No.	G
KISS 208B	(-30)* 25...200	1,5 - 2,1	230x127	150	7,5	14	0,25	10,5	0,17	290x350x375	2056.0004.98	1
KISS 212B	(-30)* 25...200	1,5 - 2,1	290x152	150	10,5	14	0,25	10,5	0,17	350x375x375	2057.0004.98	1
KISS 215B	(-30)* 25...200	1,5 - 2,1	290x152	200	15,0	14	0,25	10,5	0,17	350x375x425	2058.0004.98	1
KISS 220B	(-30)* 25...200	1,5 - 2,1	290x329	150	17,0	14	0,25	10,5	0,17	350x555x375	2059.0004.98	1
KISS 225B	(-30)* 25...200	1,5 - 2,1	290x329	200	23,5	14	0,25	10,5	0,17	350x555x425	2060.0004.98	1

* Auxiliary cooling device required (see glossary "Working Temperature Range") Temperature stability: CC ±0,02 K ; KISS ±0,05 K

Heating Bath Circulator

Model	Temperature range (°C)	Bath volume (ltr)	Bath depth (mm)	Heating power (kW)	max. pressure (l/min) (bar)		Pump data max. suction (l/min) (bar)		Dimensions W x D x H (mm)	Cat.No.	G
KISS 205B	(-30)* 45...200	4,8	150	1,5 - 2,1	14	0,25	10,5	0,17	178x337x355	2004.0009.98	1

* Auxiliary cooling device required (see glossary "Working Temperature Range") Temperature stability: CC ±0,02 K ; KISS ±0,05 K

Cooling Circulators

Model	Working temp. range (°C)	Heating power (kW)	opening (mm)	Bath depth (mm)	volume (ltr)	max. pressure (l/min) (bar)		Pump data max. suction (l/min) (bar)		Cooling power (kW) at (°C) 20 0 -20			Dimensions W x D x H (mm)	Cat.No.	G
KISS K6	-25...200	1,6 - 2,1	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	1,6 - 2,1	140x120	150	4,5	14	0,25	10,5	0,17	0,26	0,21	0,05	210x400x546	2008.0044.98	2

All units use natural refrigerant as standard Temperature stability: CC ±0,02 K ; KISS ±0,05 K

Cooling Circulators

Model	Working temp. range (°C)	Heating power (kW)	opening (mm)	Bath depth (mm)	volume (ltr)	max. pressure (l/min) (bar)		Pump data max. suction (l/min) (bar)		Cooling power (kW) at (°C) 0 -10 -20			Dimensions W x D x H (mm)	Cat.No.	G
KISS K12	-20...200	1,8 - 2,1	290x152	150	10,5	14	0,25	10,5	0,17	0,2	0,12	0,05	350x560x430	2009.0020.98	2
KISS K15	-20...200	1,8 - 2,1	290x152	200	15,0	14	0,25	10,5	0,17	0,2	0,12	0,05	350x560x430	2010.0017.98	2
KISS K20	-30...200	1,8 - 2,1	290x329	150	17,0	14	0,25	10,5	0,17	0,35	0,27	0,16	350x555x615	2011.0013.98	2
KISS K25	-30...200	1,8 - 2,1	290x329	200	23,5	14	0,25	10,5	0,17	0,35	0,27	0,16	350x555x615	2012.0015.98	2

All units use natural refrigerant as standard Temperature stability: CC ±0,02 K ; KISS ±0,05 K



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designed for you



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