



Product Overview & What's New for 2014

# high precision thermoregulation



# huber

# NEW: Pilot ONE® controller



Temperature control is as simple as making a call: Chic design and comfortable operation via a touchscreen, just like a smartphone.

The new **Pilot ONE** is a further milestone in the history of Huber's innovative temperature control systems. This new generation controller, with pioneering technology and advanced control functions, brings numerous advantages to routine work. The extensive features list includes: a brilliant 5.7" TFT touchscreen display, USB and network connections and additional languages. User operation is, as always, at the forefront of our designs and the **Pilot ONE** has a convenient navigation system with icons – making routine work simpler. Software wizards also help you set up, ensuring correct settings and an optimal combination of application and temperature control unit.

- ▶ 5,7" TFT touchscreen
- ▶ Graphic with 480 x 640 Pixel
- ▶ Navigation in 11 languages
- ▶ USB and Ethernet
- ▶ Process data logging



Cutting edge controller technology for all Huber units



Smartphone like operation



Connections for LAN and USB (Host, Device)



Thanks to Plug & Play Technology the Pilot ONE is removable and can be used as a remote control





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# high precision thermoregulation in Laboratory, Pilot Plant and Production

We are the technology leader for high precision thermoregulation solutions in research and industry. Our products ensure precise temperature control throughout the whole world in laboratories, pilot plants and production processes. Our product range offers temperature control solutions for applications from -125 to +425 °C.

We have been driving technological development in the field of liquid temperature control with continuous innovations since 1968. The introduction of the Unistat technology was a revolution in temperature control, setting the tone for thermodynamics and accuracy today. In addition to dynamic temperature control systems, our product range includes chillers, classic heating & cooling circulators and a range of special solutions and bespoke systems.



For the fourth year running we have been presented with the TOP 100 award for being one of the hundred most innovative small and medium sized companies in Germany. In 2012 we were additionally awarded the prize for 'Innovator of the year'.



# Dynamic Thermoregulation

For more than 20 years, the dynamic thermoregulation of the Unistat range introduced a revolution in fluid temperature control. Unistats are the ideal solution for fast and precise thermal control of externally connected applications.

In comparison to other circulators, the Unistats offer rapid tempe-

perature change and a wide temperature range without fluid change. There are over 60 models to choose from with cooling powers from 0,7 to 130 kW. What ever the application, Unistats provide professional scale-up offering the same stable process conditions from the development lab to production systems.

- Working temperatures from -125 °C to +425 °C
- Previously unachievable performance
- Highly accurate, intelligent temperature control
- Maximum process stability and reproducibility
- The fastest heating and cooling rates
- High Cooling Power from 0,7 to 130 kW
- Large temperature range without fluid change
- Increased thermal fluid life
- Incredibly compact
- Brilliant 5.7" TFT touchscreen with graphic display
- Comprehensive warning and safety functions



For more information scan this QR-Code.

**Details & Accessories:**  
[www.huber-online.com](http://www.huber-online.com)



**NEW!**

with Pilot ONE®  
Multitouch Controller



**HEATING & COOLING**

**-125 °C ... +425 °C**



| Unistat® 510w |



| Unistat® 430 |



| Unistat® tango® |

**-55 °C**

Models  
from 0,7 to 21 kW

**Natural  
Refrigerant!**

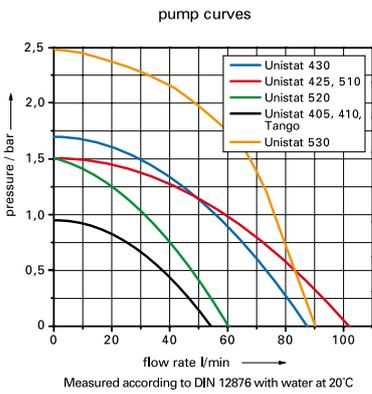


| Petite Fleur® |

**VPC**  
Variable Pressure Control

**ATEX**  
ATEX Solutions (Option)

**Additional Heating**  
(Option)



Model	Working Temperature Range (°C)	Pump max. VPC		Heating Power (kW)	Cooling Power (kW) at (°C)					Dimensions WxDxH (mm)	Cat.No.	G	Price	
		(l/min)	(bar)		250	200	100	0	-20					-40
Petite Fleur®	-40...200	33	0,9 <sup>1</sup>	1,5	–	0,48	0,48	0,45	0,27	0,04	260x450x504	1030.0001.01	3	
Petite Fleur® w	-40...200	33	0,9 <sup>1</sup>	1,5	–	0,48	0,48	0,45	0,27	0,04	260x450x504	1030.0003.01	3	
Petite Fleur®-eo	-40...200	33	0,9 <sup>1</sup>	1,5	–	0,48	0,48	0,45	0,27	0,04	260x450x504	1030.0004.01	3	
Unistat® tango®	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	0,7	0,7	0,7	0,7	0,4	0,06	426x270x631	1000.0016.01	3	
Unistat® tango® w*	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	0,7	0,7	0,7	0,7	0,4	0,06	426x270x631	1000.0021.01	3	
Unistat® tango® wl	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	0,7	0,7	0,7	0,7	0,4	0,06	426x270x631	1000.0017.01	3	
Unistat® 405	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	1,0	1,0	1,0	1,0	0,6	0,15	426x307x631	1002.0021.01	3	
Unistat® 405w	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	1,3	1,3	1,3	1,3	0,7	0,15	426x307x631	1002.0022.01	3	
Unistat® 410	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	1,7	2,5	2,5	1,5	0,8	0,2	460x554x1200	1031.0010.01	3	
Unistat® 410w	-45...250	55	0,9 <sup>1</sup>	1,5/3,0	1,7	2,5	2,5	1,5	0,8	0,2	425x360x636	1031.0005.01	3	
Unistat® 425	-40...250	105	1,5 <sup>2</sup>	2,0	2,0	2,0	2,0	2,5	1,8	0,2	460x554x1453	1005.0057.01	35	
Unistat® 425w	-40...250	105	1,5 <sup>2</sup>	2,0	2,8	2,8	2,8	2,5	1,9	0,2	460x554x1453	1005.0058.01	35	
Unistat® 430	-40...250	90	1,7 <sup>2</sup>	4,0	3,5	3,5	3,5	3,5	2,2	0,3	460x554x1453	1005.0059.01	35	
Unistat® 430w	-40...250	90	1,7 <sup>2</sup>	4,0	3,5	3,5	3,5	3,5	2,2	0,3	460x554x1453	1005.0060.01	35	
Unistat® 510	-50...250	105	1,5 <sup>2</sup>	6,0	5,3	5,3	5,3	5,3	2,8	0,9	1100x755x1370	1005.0082.01	35	
Unistat® 510w	-50...250	105	1,5 <sup>2</sup>	6,0	5,3	5,3	5,3	5,3	2,8	0,9	460x554x1453	1005.0061.01	35	
Unistat® 515w	-55...250	105	1,5 <sup>2</sup>	6,0	7,0	7,0	7,0	5,0	2,8	0,9	460x554x1453	1032.0006.01	4	
Unistat® 520w	-55...250	60	1,5 <sup>2</sup>	6,0	–	6,0	6,0	6,0	4,2	1,5	540x604x1332	1006.0020.01	4	
Unistat® 525w	-55...250	60	1,5 <sup>2</sup>	6,0	10,0	10,0	10,0	7,0	4,2	1,5	540x604x1332	1033.0008.01	4	
Unistat® 527w	-55...250	90	2,5 <sup>2</sup>	6,0	7,0	12,0	12,0	12,0	6,0	2,0	540x704x1491	1034.0014.01	4	
Unistat® 530w	-55...250	90	2,5 <sup>2</sup>	12,0	7,0	19,0	21,0	16,0	9,0	3,0	540x704x1491	1034.0015.01	4	

<sup>1</sup> integrated VPC pressure control

<sup>2</sup> VPC pressure control via optional bypass

\* Model uses natural refrigerant as standard, for all other models available on request

Flat built models available on request



| Unistat® 815w |



| Unistat® 825 |



| Unistat® 615w |

| Unistat® 705w |

 **-85 °C**  
Air- or water-cooled

**Save time, increase productivity:**

Petite Fleur, Tango and Unistats are proven to be the best performing temperature control systems on the market.

[www.huber-online.com/casestudies](http://www.huber-online.com/casestudies)



Model	Working Temperature Range (°C)	Pump max. VPC		Heating Power (kW)	Cooling Power (kW) at (°C)						Dimensions WxDxH (mm)	Cat.No.	G	Price
		(l/min)	(bar)		200	100	0	-20	-40	-60				
Unistat® 610	-60...200	60	1,5 <sup>2</sup>	6,0	7,0	7,0	7,0	6,4	3,3	0,8	1290x735x1600	1007.0040.01	4	
Unistat® 610w	-60...200	60	1,5 <sup>2</sup>	6,0	7,0	7,0	7,0	6,4	3,3	0,8	630x704x1520	1007.0031.01	4	
Unistat® 615w	-60...200	60	1,5 <sup>2</sup>	12,0	9,5	9,5	9,5	8,0	4,8	1,2	630x704x1520	1007.0032.01	4	
Unistat® 620w	-60...200	90	2,5 <sup>2</sup>	12,0	12,0	12,0	12,0	12,0	6,5	1,8	730x804x1520	1008.0040.01	4	
Unistat® 625w	-60...200	90	2,5 <sup>2</sup>	12,0	16,0	16,0	16,0	15,0	7,4	2,2	730x804x1520	1008.0041.01	4	
Unistat® 630w	-60...200	110	2,5 <sup>2</sup>	24,0	22,0	22,0	21,0	20,0	14,0	5,0	950x1005x1650	1009.0021.01	5	
Unistat® 635w	-60...200	110	2,5 <sup>2</sup>	24,0	27,0	27,0	27,0	25,0	18,0	6,0	950x1005x1650	1009.0022.01	5	
Unistat® 640w	-60...200	110	2,5 <sup>2</sup>	30,0	32,0	32,0	35,0	30,0	18,0	6,0	950x1005x1650	1010.0007.01	5	
Unistat® 645w	-60...200	130	4,0 <sup>2</sup>	36,0	45,0	45,0	45,0	42,0	22,0	7,0	1830x1200x1830	1011.0006.01	5	
Unistat® 650w	-60...200	130	4,0 <sup>2</sup>	48,0	65,0	65,0	65,0	56,0	30,0	11,0	1830x1200x1830	1012.0005.01	5	
Unistat® 680w	-60...200	130	4,0 <sup>2</sup>	96,0	130,0	130,0	130,0	80,0	60,0	20,0	4500x2000x2000	1013.0003.01	5	

<sup>2</sup> VPC pressure control via optional bypass

Options: natural refrigerant, additional heating capacity, air cooled units available on request

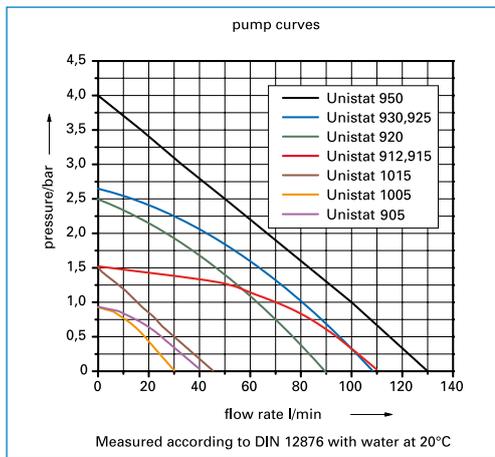
Model	Working Temperature Range (°C)	Pump max. VPC		Heating Power (kW)	Cooling Power (kW) at (°C)								Dimensions WxDxH (mm)	Cat.No.	G	Price
		(l/min)	(bar)		250	200	100	0	-20	-40	-60	-80				
Unistat® 705	-75...250	55	0,9 <sup>1</sup>	1,5/3,0	0,6	0,6	0,6	0,65	0,6	0,6	0,3	-	425x400x720	1001.0020.01	3	
Unistat® 705w	-75...250	55	0,9 <sup>1</sup>	1,5/3,0	0,6	0,6	0,6	0,65	0,6	0,6	0,3	-	425x400x720	1001.0021.01	3	
Unistat® 815	-85...250	40	0,9 <sup>1</sup>	2,0	1,3	1,3	1,3	1,5	1,5	1,4	1,2	0,2	460x604x1465	1014.0049.01	35	
Unistat® 815w	-85...250	40	0,9 <sup>1</sup>	2,0	1,5	1,5	1,5	1,5	1,5	1,4	1,2	0,2	460x604x1465	1014.0050.01	35	
Unistat® 825	-85...250	40	0,9 <sup>1</sup>	3,0	2,3	2,3	2,3	2,2	2,0	2,0	1,4	0,3	460x604x1465	1014.0051.01	4	
Unistat® 825w	-85...250	40	0,9 <sup>1</sup>	3,0	2,3	2,3	2,3	2,4	2,4	2,4	1,5	0,3	460x604x1465	1014.0052.01	4	

<sup>1</sup> Integrated VPC pressure control

Option: natural refrigerants available on request

-90 °C  
-120 °C

Models  
from 5,2 to 36 kW



| Unistat® 930w |

| Unistat® 915w |

**Natural Refrigerant!**



Model	Working Temperature Range (°C)	Pump max. VPC (l/min) (bar)	Heating Power (kW)	Cooling Power (kW) at (°C)								Dimensions WxDxH (mm)	Cat.No.	G	Price	
				250	200	100	0	-20	-40	-60	-80					
Unistat® 905	-90...250	40 0,9 <sup>1</sup>	6,0	4,0	4,0	3,8	3,6	3,5	3,5	2,2	0,7	540x654x1500	1035.0011.01	4		
Unistat® 905w	-90...250	40 0,9 <sup>1</sup>	6,0	4,5	4,5	4,5	4,5	4,5	4,5	4,0	2,5	0,7	540x654x1500	1035.0012.01	4	
Unistat® 912w	-90...250	110 1,5 <sup>2</sup>	6,0	7,0	7,0	7,0	7,0	7,0	7,0	6,0	3,5	0,9	630x704x1565	1016.0027.01	4	
Unistat® 915w	-90...250	110 1,5 <sup>2</sup>	6,0	11,0	11,0	11,0	11,0	11,0	11,0	8,0	4,0	1,1	630x704x1565	1036.0006.01	4	
Unistat® 920w	-90...200	90 2,5 <sup>2</sup>	12,0	–	11,0	11,0	11,0	11,0	11,0	10,0	8,0	2,0	950x1205x1650	1017.0025.01	4	
Unistat® 925w	-90...200	110 2,5 <sup>2</sup>	12,0	–	16,0	16,0	16,0	16,0	16,0	15,0	13,5	3,5	950x1205x1650	1017.0026.01	4	
Unistat® 930w	-90...200	110 2,5 <sup>2</sup>	24,0	–	19,0	19,0	20,0	20,0	20,0	20,0	15,0	5,0	950x1205x1650	1017.0027.01	5	
Unistat® 950	-90...200	130 4,0 <sup>2</sup>	36,0	–	30,0	30,0	30,0	30,0	30,0	30,0	24,0	10,0	3315x1485x3030	1018.0008.01	5	
Unistat® 950w	-90...200	130 4,0 <sup>2</sup>	36,0	–	36,0	36,0	36,0	36,0	36,0	36,0	25,0	10,0	2630x1300x1930	1018.0009.01	5	

<sup>1</sup> integrated VPC pressure control

<sup>2</sup> VPC pressure control via bypass

Option: natural refrigerants available on request

Model	Working Temperature Range (°C)	Pump max. VPC (l/min) (bar)	Heating Power (kW)	Cooling Power (kW) at (°C)						Dimensions WxDxH (mm)	Cat.No.	G	Price		
				100	0	-20	-40	-60	-80					-100	
Unistat® 1005w	-120...100	30 0,9 <sup>1</sup>	2,0	1,5	1,5	1,5	1,5	1,4	1,4	1,0	700x804x1520	1019.0006.01	4		
Unistat® 1015w	-120...100	44 1,5 <sup>2</sup>	4,0	2,5	2,5	2,5	2,5	2,5	2,5	2,0	2,0	950x1205x1650	1020.0010.01	5	

<sup>1</sup> integrated VPC pressure control

<sup>2</sup> VPC pressure control via bypass

Option: natural refrigerants available on request

# High Temperature Circulators

High-precision and space saving temperature control up to +425 °C. The new HT circulators of the Unistat TR401 range set new standards in safety, easy operation, and rapid, dynamic temperature control. The Unistat TR401w HT model features an integral stepper motor to control the HT-Cooling, level protection and configurable overtemperature protection. Its minimal internal volume allows the shortest heat-up times to be achieved, while at the same time the maximum expansion tank temperature is limited to +60 °C. The working life and properties of the thermal fluid are also protected, by avoiding direct contact between the hot fluid and atmosphere.

## Advantages:

- Small space required
- Low fill-volume
- High Pump capacity
- Rapid, efficient filling of the complete application – with venting
- +60 °C max. expansion tank temperature
- Plug & Play technology
- Simple operation
- High level of safety through constant monitoring



| Unistat® T401 |



| Unistat® T305 |



| Unistat® T320w HT |



| Unistat® T340w HT |

Model	Temperature Range	Pump max. VPC		Heating Power (kW)	Cooling Power (kW) at (°C)				Dimensions WxDxH (mm)	Cat.No.	G	Price
	(°C)	(l/min)	(bar)		400	300	200	100				
Unistat® TR401	50...400	31	0,9 <sup>1</sup>	3,0/9,0	–	–	–	–	288x379x890	1028.0007.01	3	
Unistat® TR401w HT	(15) 50...400	26	0,8 <sup>1</sup>	3,0/9,0	10,0	10,0	10,0	10,0	288x379x890	1028.0008.01	3	
Unistat® TR402	80...425	31	1,0 <sup>1</sup>	3,0/9,0	–	–	–	–	288x332x870	1028.0006.01	3	

Model	Temperature Range	Pump max. VPC		Heating Power (kW)	Cooling Power (kW) at (°C)				Dimensions WxDxH (mm)	Cat.No.	G	Price
	(°C)	(l/min)	(bar)		400	300	200	100				
Unistat® T305	(15) 65...300	45	0,9 <sup>1</sup>	3,0/6,0	–	–	–	–	425x250x635	1003.0010.01	3	
Unistat® T305 HT	65...300 <sup>3</sup>	45	0,9 <sup>1</sup>	3,0/6,0	–	3,2	2,3	0,6	425x250x635	1003.0011.01	3	
Unistat® T305w HT	(15) 65...300	45	0,9 <sup>1</sup>	3,0/6,0	–	10,0	10,0	10,0	425x250x635	1003.0012.01	3	
Unistat® T320w HT	(15) 65...300	60	1,5 <sup>2</sup>	12,0	–	10,0	10,0	6,0	460x554x1332	1004.0019.01	35	
Unistat® T330w HT	(15) 65...300	60	2,5 <sup>2</sup>	24,0	–	10,0	10,0	6,0	460x554x1332	1004.0025.01	35	
Unistat® T340w HT	(15) 65...300	60	2,5 <sup>2</sup>	48,0	–	10,0	10,0	6,0	600x704x1517	1024.0007.01	35	
Unistat® T402	80...425	45	0,9 <sup>2</sup>	3,0/6,0	–	–	–	–	505x400x765	1038.0003.01	3	

<sup>1</sup> integrated VPC pressure control

<sup>2</sup> VPC pressure control via bypass

<sup>3</sup> Lowest working temperature 15 K above ambient temperature

# Circulating Chillers / Immersion Coolers

Many applications depend on a reliable source of cooling. Circulating chillers in the Unichiller range offer an ideal solution for environmentally friendly and economical cooling in laboratory and industry. There are over 50 air and water cooled models to choose from, with cooling powers from 0,3 to 50 kW.

Efficient energy management in all Huber chillers ensures low operating costs and reduced usage of valuable fresh water. Huber circulating chillers are a resource saving solution with a quick return on investment.

- Working temperatures from -20 °C to +40 °C
- High cooling powers up to 50 kW
- Powerful circulation pumps up to 220 l/min
- Modern energy management
- Space saving tower design
- Robust stainless steel construction
- Safe for continuous operation, with alarm and warning functions
- Highly accurate temperature control
- Option for heating / temperatures up to +100 °C
- Extensive features (depending on model) with Pt100 sensor connection, RS232, 5 point calibration, heating, etc.



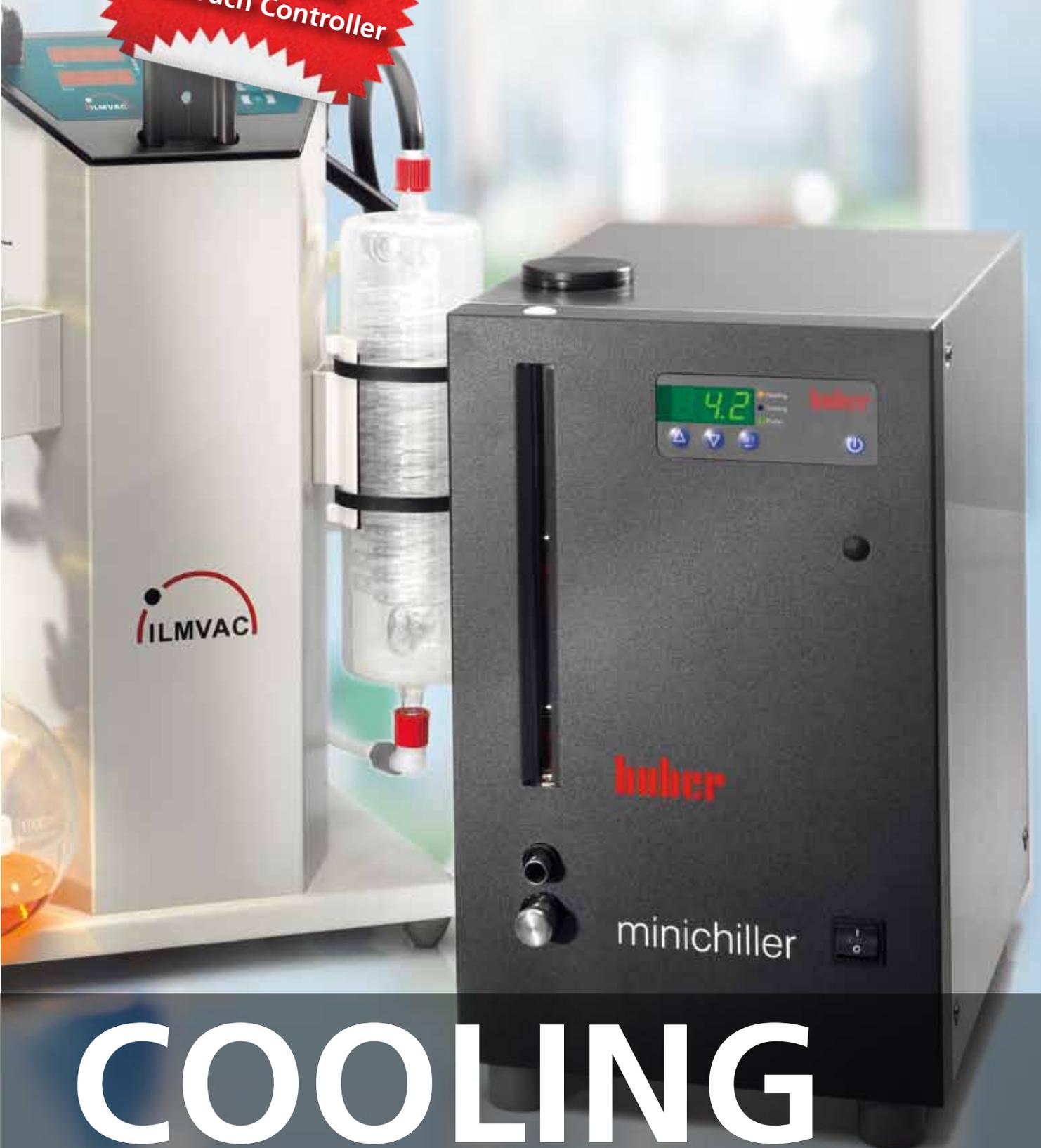
For more information scan this QR-Code.

Details & Accessories:  
[www.huber-online.com](http://www.huber-online.com)



**NEW!**

with Pilot ONE®  
Multitouch Controller



# COOLING

# TO -90°C

## Minichiller®

Small, robust and cost effective with a stainless steel casing, the Minichiller is the smallest Unichiller in the world.

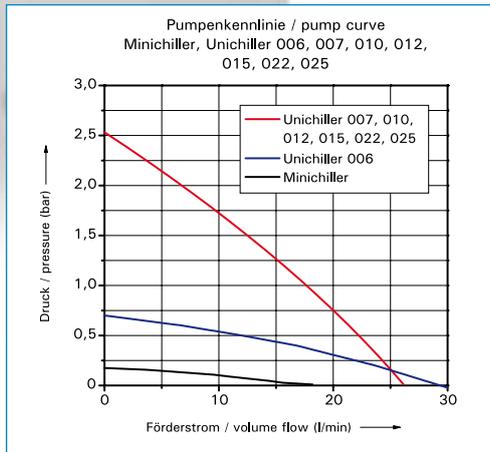
Minichillers are available with air or water-cooled refrigeration systems. They are fitted with an illuminated level indicator, overflow and drain on the front. The filling port is on the top of the unit.



| Minichiller® |



| Unichiller® 006-MPC® |



Model	Working Temp. Range (°C)	Pump max.		Cooling Power (kW) at (°C)			Dimensions WxDxH (mm)	Mobile with trolley	Cat.No.	G	Price
		(l/min)	(bar)	15	0	-10					
Minichiller®*	-20...40	20	0,2	0,3	0,2	0,14	225 x 360 x 380	–	3006.0015.99	2	
Minichiller® w*	-20...40	20	0,2	0,3	0,2	0,14	225 x 360 x 380	–	3006.0022.99	2	
Unichiller® 006-MPC®*	-20...40	30	0,7	0,6	0,5	0,35	280 x 490 x 414	–	3007.0007.99	3	
Unichiller® 007-MPC®	-20...40	25	2,5	0,7	0,55	0,40	350 x 430 x 622	Height: 700	3012.0001.99	3	
Unichiller® 010-MPC®	-20...40	25	2,5	1,0	0,8	0,5	350 x 430 x 622	Height: 700	3012.0002.99	3	
Unichiller® 012-MPC®	-20...40	25	2,5	1,2	1,0	0,7	420 x 480 x 579	Height: 660	3009.0002.99	3	
Unichiller® 012w-MPC®	-20...40	25	2,5	1,2	1,0	0,7	350 x 430 x 622	Height: 700	3012.0003.99	3	
Unichiller® 015-MPC®	-20...40	25	2,5	1,5	1,0	0,7	420 x 480 x 579	Height: 660	3009.0001.99	3	
Unichiller® 015w-MPC®	-20...40	25	2,5	1,5	1,0	0,7	350 x 430 x 622	Height: 700	3012.0004.99	3	
Unichiller® 022-MPC®	-10...40	25	2,5	2,2	1,6	1,0	460 x 590 x 743	incl.	3010.0001.99	3	
Unichiller® 022w-MPC®	-10...40	25	2,5	2,2	1,6	1,0	420 x 480 x 579	Height: 660	3009.0003.99	3	
Unichiller® 025-MPC®	-10...40	25	2,5	2,5	2,0	1,2	460 x 590 x 743	incl.	3010.0002.99	3	
Unichiller® 025w-MPC®	-10...40	25	2,5	2,5	2,0	1,2	420 x 480 x 579	Height: 660	3009.0004.99	3	

Option: Heating for Minichiller® 1 kW, for Unichiller® models 2 kW (additional cost)

\*Units use natural refrigerant as standard, for all other models available on request

EO Models (for externally open applications) from Unichiller® 007-MPC® on request



| Unichiller® 007-MPC®-H |



| Unichiller® 022-MPC® |



## Minichiller®, Unichiller® with MPC® plus

Model	Working Temp.	Pump max. (l/min)	Pump max. (bar)	Cooling Power (kW) at (°C)			Dimensions WxDxH (mm)	Mobile with trolley	Cat.No.	G	Price
	Range (°C)			15	0	-10					
Minichiller® plus*	-20...40	20	0,2	0,3	0,2	0,14	225x360x380	–	3006.0039.99	2	
Minichiller® w plus*	-20...40	20	0,2	0,3	0,2	0,14	225x360x380	–	3006.0040.99	2	
Unichiller® 006-MPC® plus*	-20...40	30	0,7	0,6	0,5	0,35	280x490x414	–	3007.0011.99	3	
Unichiller® 007-MPC® plus	-20...40	25	2,5	0,7	0,55	0,40	350x430x622	Height: 700	3012.0062.99	3	
Unichiller® 010-MPC® plus	-20...40	25	2,5	1,0	0,8	0,5	350x430x622	Height: 700	3012.0063.99	3	
Unichiller® 012-MPC® plus	-20...40	25	2,5	1,2	1,0	0,7	420x480x579	Height: 660	3009.0042.99	3	
Unichiller® 012w-MPC® plus	-20...40	25	2,5	1,2	1,0	0,7	350x430x622	Height: 700	3012.0064.99	3	
Unichiller® 015-MPC® plus	-20...40	25	2,5	1,5	1,0	0,7	420x480x579	Height: 660	3009.0043.99	3	
Unichiller® 015w-MPC® plus	-20...40	25	2,5	1,5	1,0	0,7	350x430x622	Height: 700	3012.0065.99	3	
Unichiller® 022-MPC® plus	-10...40	25	2,5	2,2	1,6	1,0	460x590x743	incl.	3010.0024.99	3	
Unichiller® 022w-MPC® plus	-10...40	25	2,5	2,2	1,6	1,0	420x480x579	Height: 660	3009.0044.99	3	
Unichiller® 025-MPC® plus	-10...40	25	2,5	2,5	2,0	1,2	460x590x743	incl.	3010.0025.99	3	
Unichiller® 025w-MPC® plus	-10...40	25	2,5	2,5	2,0	1,2	420x480x579	Height: 660	3009.0045.99	3	

plus = with digital interface RS232    Option: Heating for Minichiller® 1 kW, for Unichiller® models 2 kW (additional costs)    EO Models (for externally open applications) from Unichiller® 007-MPC® plus on request  
 \*Units use natural refrigerant as standard, for all other models available on request

# Unichiller® with air cooled refrigeration

[kW] **to 40 kW**

air cooled models  
from 1,7 to 40 kW

| Unichiller® 045T |



| Unichiller® 110T |



Model	Working Temp. Range (°C)	Pump max.		Cooling Power (kW) at (°C)				Dimensions WxDxH (mm)	(W/dm³) at		Cat.No.	G	Price	
		Type	(l/min)	(bar)	15	0	-10		-20	15°C				0°C
Unichiller® 017T	-10...40	B	25	3,0	1,7	0,9	0,4	-	450x510x1231	6,4	3,4	3013.0001.01	3	
Unichiller® 020T	-20...40	B	25	3,0	2,0	2,0	1,5	0,8	450x510x1231	7,5	7,5	3013.0002.01	3	
Unichiller® 025T	-10...40	B	25	3,0	2,5	1,2	0,6	-	450x510x1231	9,4	4,5	3013.0003.01	3	
Unichiller® 040T	-10...40	B	26	3,0	4,0	2,5	1,5	-	500x552x1451	11,0	6,9	3014.0001.01	3	
Unichiller® 045T	-20...40	B	26	3,0	4,5	4,5	2,9	1,5	500x552x1451	12,4	12,4	3014.0002.01	3	
Unichiller® 055T	-10...40	C3	57	5,6	5,5	3,0	1,3	-	600x632x1610	9,1	5,0	3015.0001.01	3	
Unichiller® 060T	-20...40	C3	80	5,6	6,0	6,0	3,9	2,0	600x632x1610	9,9	9,9	3015.0002.01	3	
Unichiller® 080T	-10...40	C3	84	5,6	8,0	4,8	2,5	-	600x790x1614	11,4	6,5	3016.0001.01	3	
Unichiller® 100T	-20...40	C3	96	5,6	10,0	10,0	6,5	2,5	600x790x1614	13,1	13,1	3017.0001.01	4	
Unichiller® 110T	-10...40	C3	90	5,6	11,0	6,0	2,7	-	600x790x1614	14,4	7,9	3017.0002.01	4	
Unichiller® 130T*	-10...40	C3	90	5,6	13,0	7,0	4,5	-	904x1392x1820	6,8	4,4	3018.0001.01	4	
Unichiller® 150T*	-20...40	D3	220	4,7	15,0	15,0	9,7	3,7	904x1392x1820	6,2	6,2	3019.0001.01	4	
Unichiller® 160T*	-10...40	C3	96	5,6	16,0	8,8	4,0	-	904x1392x1820	8,3	4,6	3018.0002.01	4	
Unichiller® 200T*	-10...40	D3	220	4,7	20,0	11,0	5,0	-	904x1392x1820	8,3	4,6	3019.0002.01	4	
Unichiller® 210T*	-20...40	D3	220	4,7	21,0	21,0	13,6	5,2	874x1985x1855	6,6	6,6	3020.0001.01	4	
Unichiller® 250T*	-10...40	D3	220	4,7	25,0	14,0	6,2	-	874x1985x1855	7,8	4,4	3020.0002.01	5	
Unichiller® 260T*	-20...40	D3	220	4,7	26,0	26,0	13,6	5,2	874x1985x1855	8,0	8,0	3020.0003.01	5	
Unichiller® 300T*	-10...40	D3	220	4,7	30,0	16,5	7,5	-	874x1985x1855	9,3	5,1	3020.0004.01	5	
Unichiller® 400T*	-10...40	D3	220	4,7	40,0	22,0	10,0	-	2500x1685x1785	5,3	2,9	3021.0001.01	5	

\* without trolley

Option: Heating 2 kW to 100 °C (additional cost)

EO Models (for externally open applications) on request

Option: natural refrigerant available on request

# Unichiller® with water cooled refrigeration

[kW]  
to 50 kW

water cooled models  
from 1,7 to 50 kW

Natural  
Refrigerant!



| Unichiller® 025Tw |



| Unichiller® 130Tw |

Model	Working Temp. Range (°C)	Pump max.		Cooling Power (kW) at (°C)				Dimensions WxDxH (mm)	(W/dm³) at		Cat.No.	G	Price	
		Type	(l/min)	(bar)	15	0	-10		-20	15°C				0°C
Unichiller® 017Tw	-10...40	B	25	3,0	1,7	0,9	0,4	-	400x440x1100	8,8	4,6	3024.0001.01	3	
Unichiller® 020Tw	-20...40	B	25	3,0	2,0	2,0	1,5	0,8	400x440x1100	10,3	10,3	3024.0002.01	3	
Unichiller® 025Tw	-10...40	B	25	3,0	2,5	1,2	0,6	-	400x440x1100	12,9	6,2	3024.0003.01	3	
Unichiller® 030Tw	-20...40	B	26	3,0	3,0	3,0	2,0	1,0	400x440x1100	15,5	15,5	3025.0001.01	3	
Unichiller® 040Tw	-10...40	B	26	3,0	4,0	2,5	1,5	-	400x440x1100	20,7	12,9	3025.0002.01	3	
Unichiller® 055Tw	-10...40	C3	57	5,6	5,5	4,0	2,0	-	500x552x1261	15,8	11,5	3026.0001.01	3	
Unichiller® 060Tw	-20...40	C3	80	5,6	6,0	6,0	3,8	2,1	500x552x1261	17,2	17,2	3026.0002.01	3	
Unichiller® 080Tw	-10...40	C3	84	5,6	8,0	4,65	2,35	-	500x552x1261	23,0	13,4	3026.0003.01	3	
Unichiller® 100Tw	-20...40	C3	96	5,6	10,0	10,0	6,3	3,0	600x600x1450	19,2	19,2	3027.0001.01	4	
Unichiller® 110Tw	-10...40	C3	90	5,6	11,0	5,8	2,55	-	600x600x1450	21,1	11,1	3027.0002.01	4	
Unichiller® 130Tw	-10...40	C3	96	5,6	13,0	7,0	4,5	-	600x600x1450	24,9	13,4	3027.0003.01	4	
Unichiller® 150Tw	-20...40	D3	200	4,7	15,0	15,0	10,0	5,0	760x800x1560	15,8	15,8	3028.0001.01	4	
Unichiller® 160Tw	-10...40	C3	90	5,6	16,0	9,5	5,5	-	600x600x1450	30,7	18,2	3027.0004.01	4	
Unichiller® 200Tw	-10...40	D3	200	4,7	20,0	10,7	4,7	-	760x800x1560	21,1	11,3	3028.0002.01	4	
Unichiller® 210Tw	-20...40	D3	200	4,7	21,0	21,0	15,5	9,5	760x800x1560	22,1	22,1	3028.0003.01	4	
Unichiller® 250Tw	-10...40	D3	200	4,7	25,0	14,0	6,2	-	760x800x1560	26,4	14,3	3028.0004.01	5	
Unichiller® 260Tw	-20...40	D3	210	4,7	26,0	26,0	20,0	12,0	760x800x1560	27,4	27,4	3028.0005.01	5	
Unichiller® 300Tw*	-10...40	D3	210	4,7	30,0	16,0	7,1	-	760x900x1560	28,1	15,0	3029.0001.01	5	
Unichiller® 400Tw*	-10...40	D3	210	4,7	40,0	21,0	10,0	-	760x900x1560	37,5	19,7	3029.0002.01	5	
Unichiller® 500Tw*	-10...40	D3	210	4,7	50,0	26,0	-	-	1070x760x1625	37,8	19,7	3030.0001.01	5	

\* without trolley

Option: Heating 2 kW to 100 °C (additional cost)

EO Models (for externally open applications) on request

Option: natural refrigerant available on request

# RotaCool®

This chiller is unique on the global market due to its space saving L-form. The additional space required on the laboratory table is zero! Abracadabra: placed on rotary evaporator the RotaCool virtually disappears completely.

The RotaCool is a product to provide a dedicated cooling service to all small bench top Rotary Evaporators.

Natural Refrigerant!



**New!**  
Removable extension plate

Model	Working Temp. Range (°C)	Cooling Power (kW) at (°C)			Pump Data				Dimensions W x D x H (mm)	Cat.No.	G	Price
		15	0	-10	Pump max. (l/min)	max. Suction (l/min)	(bar)	(bar)				
RotaCool®	-10...40	0,42	0,35	0,22	20	0,2	17	0,18	470 (582*)x580x420	3033.0005.99	3	

\* with removable extension plate (112 mm)

Option: natural refrigerant available on request

Dimensions subject to change

## Flow-through Chillers

Flow-through Chillers are designed for simple, low demand cooling applications. They are commonly used in combination with the CC-202C or CC-205B series to remove heat in order to cool a process back to room temperature.



| DC®30 |

Model	Working Temp. Range (°C)	Cooling Power (kW) at			Dimensions W x D x H (mm)	Cat.No.	G	Price
		15°C	0°C	-20°C				
DC®30	-30...50	0,2	0,15	0,07	190x250x360	3000.0001.99	2	
DC®31	-30...50	0,4	0,35	0,10	250x310x400	3001.0001.99	2	
DC®32	-30...50	0,6	0,47	0,12	280x340x460	3002.0001.99	2	

All units use natural refrigerant as standard



## Immersion Coolers

“Dip” or “Immersion” coolers are ideal for simple cooling applications when low temperatures are required such as vapour traps or for cooling individual flasks. They are also commonly used to remove heat from the baths in the “A” and “B” series. The units with an “E” have the capability to control the temperature to a stability of +/- 0,5 K to DIN 12876. All models can be delivered with a flexible evaporator coil (no extra cost). The model name and Cat.No. have the suffix “F”. Flexible probes & custom probes available.



| TC®100E |

| TC®50 |

| TC®45-F |

Model	Working Temperature Range (°C)	Cooling Power (kW) at				Dimensions WxDxH (mm)	Cat.No. „Standard”	Cat.No. with flexible evaporator	G	Price
		0°C	-20°C	-30°C	-90°C					
TC®45	-45...100	0,24	0,18	0,1	–	190x295x360	3003.0001.99	3003.0003.99	2	
TC®45E	-45...100	0,24	0,18	0,1	–	190x295x360	3003.0002.99	3003.0004.99	2	
TC®50	-50...50	0,3	0,26	0,2	–	260x330x415	3004.0001.99	3004.0003.99	2	
TC®50E	-50...50	0,3	0,26	0,2	–	260x330x415	3004.0002.99	3004.0004.99	2	
TC®100	-100...40	0,16	0,15	0,14	0,07	295x500x570	3005.0043.99	3005.0045.99	2	
TC®100E	-100...40	0,16	0,15	0,14	0,07	295x500x570	3005.0044.99	3005.0046.99	2	

All units use natural refrigerant as standard

# Heating and Cooling Circulators

The circulators are split into two product lines, the Compatible Control models and the simpler MPC models. Both product lines represent classically constructed laboratory circulators with open baths. Baths and circulators for heating applications up to +300 °C are available, as well as models for heating and cooling

applications from -90 °C to +200 °C. Immersion or bridge circulators are suitable for thermal control of existing baths. The Ministat, the smallest cooling and heating circulator in the world, is the first choice for operation in fume-hoods or integrating into systems.

- Working temperatures from -90 °C to +300 °C
- Models for internal and external temperature control
- High heating and cooling powers up to 7 kW
- Powerful controllable circulation pumps
- Function expansion with the E-grade system is available at any time
- High precision cascade temperature control
- Large and full colour 5,7" TFT touchscreen
- Programmer with calendar / clock function
- Extended range of languages including a selection of European and Asian
- Comprehensive warning and safety functions



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**NEW!**

with Pilot ONE®  
Multitouch Controller



**HEATING & COOLING**

**-90 °C ... +300 °C**

# Immersion Circulators

Immersion circulators are the basis of many combinations of polycarbonate and stainless steel baths. Together with a cooling bath it is possible to get exact and reproducible temperatures down to -30 °C.



| CC®-E |

| MPC®-E |

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	Price
				max. Pressure (l/min)	max. Pressure (bar)	max. Suction (l/min)	max. Suction (bar)					
MPC®-E	(-30) 25...200	0,05	2,0	20	0,2	17	0,18	FL, III	132x153x312/150	2035.0005.99	1	
CC®-E	(-30) 25...200	0,01	2,0	27	0,7	25	0,4	FL, III	132x159x315/150	2000.0001.01	1	
CC®-E xd	(-30) 25...200	0,01	2,0	22	0,4	22	0,4	FL, III	132x159x360/195	2000.0005.01	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

# Circulators

Good things come in small packages! Thanks to their low bath volumes the models CC-104A and MPC-104A (with polycarbonate bath) as well as the CC-202C and MPC-202C (with stainless steel bath) are especially suitable for controlling the temperature of small external applications. All models are fitted with rear mounted M16x1 pump connections as standard. Models with the **Pilot ONE** have a speed regulated pressure/suction pump. The temperature constancy, in accordance with DIN12876, is 0,02 K with the Compatible Control models and 0,05 K for the MPC models.



| MPC®-104A |

| CC®-202C |

Model	Temperature Range (°C)	Opening (mm)	Bath Depth (mm)	Bath Volume (ltr)	Heating Power (kW)	Pump Data				Dimensions W x D x H (mm)	Cat.No.	G	Price
						max. Pressure (l/min)	max. Pressure (bar)	max. Suction (l/min)	max. Suction (bar)				
CC®-104A	(15) 25...100	Ø25	150	4	2,0	27	0,7	25	0,4	147x235x330	2001.0016.01	1	
MPC®-104A	(15) 25...100	Ø25	150	4	2,0	20	0,2	17	0,18	147x235x330	2037.0026.99	1	
CC®-202C	(-30) 45...200	Ø25	150	2	2,0	27	0,7	25	0,4	178x260x355	2003.0001.01	1	
MPC®-202C	(-30) 45...200	Ø25	150	2	2,0	20	0,2	17	0,18	178x260x355	2039.0005.99	1	

Models CC®-202C and MPC®-202C are fitted with an integrated cooling coil as standard. With the models CC®-104A and MPC®-104A the cooling coil is an optional extra.

## Circulators with Polycarbonate bath

The polycarbonate baths are suitable for use up to 100 °C. An Immersion circulator is mounted on the bath bridge for all models. With a pump adapter, this combination can also be used with external, closed applications. The models with the **Pilot ONE** have a variable speed pressure/suction pump and are therefore also suitable for externally open applications.



Model	Temperature Range (°C)	Heating Power (kW)	Bath Opening (mm)	Bath Depth (mm)	Volume (ltr)	Pump Data				Dimensions WxDxH (mm)	Cat.No.	G	Price
						max. Pressure (l/min)	(bar)	max. Suction (l/min)	(bar)				
CC®-106A	(15) 25...100	2	130x110	150	6	27	0,7	25	0,4	147x307x330	2001.0001.01	1	
MPC®-106A	(15) 25...100	2	130x110	150	6	20	0,2	17	0,18	147x307x330	2037.0021.99	1	
CC®-108A	(15) 25...100	2	130x210	150	8	27	0,7	25	0,4	147x407x330	2001.0002.01	1	
MPC®-108A	(15) 25...100	2	130x210	150	8	20	0,2	17	0,18	147x407x330	2037.0022.99	1	
CC®-110A	(15) 25...100	2	130x310	150	10	27	0,7	25	0,4	147x507x330	2001.0003.01	1	
MPC®-110A	(15) 25...100	2	130x310	150	10	20	0,2	17	0,18	147x507x330	2037.0023.99	1	
CC®-112A	(15) 25...100	2	303x161	150	12	27	0,7	25	0,4	333x360x335	2001.0004.01	1	
MPC®-112A	(15) 25...100	2	303x161	150	12	20	0,2	17	0,18	333x360x335	2037.0024.99	1	
CC®-118A	(15) 25...100	2	303x321	150	18	27	0,7	25	0,4	333x520x335	2001.0005.01	1	
MPC®-118A	(15) 25...100	2	303x321	150	18	20	0,2	17	0,18	333x520x335	2037.0025.99	1	

## Circulators with stainless steel baths

The insulated stainless steel baths are suitable for use up to 200 °C. All models have a bridge mounted CC-E and MPC-E immersion circulator. With a pump adapter, this combination can also be used with externally closed and externally open (with option level control) applications.



Model	Temperature Range (°C)	Heating Power (kW)	Bath Opening (mm)	Bath Depth (mm)	Volume (ltr)	Pump Data				Dimensions WxDxH (mm)	Cat.No.	G	Price
						max. Pressure (l/min)	(bar)	max. Suction (l/min)	(bar)				
CC®-208B	(-30) 25...200	2	230x127	150	8,5	27	0,7	25	0,4	290x350x375	2002.0001.01	1	
MPC®-208B	(-30) 25...200	2	230x127	150	8,5	20	0,2	17	0,18	290x350x375	2038.0021.99	1	
CC®-212B	(-30) 25...200	2	290x152	150	12	27	0,7	25	0,4	350x375x375	2002.0002.01	1	
MPC®-212B	(-30) 25...200	2	290x152	150	12	20	0,2	17	0,18	350x375x375	2038.0022.99	1	
CC®-215B	(-30) 25...200	2	290x152	200	15	27	0,7	25	0,4	350x375x425	2002.0003.01	1	
MPC®-215B	(-30) 25...200	2	290x152	200	15	20	0,2	17	0,18	350x375x425	2038.0023.99	1	
CC®-220B	(-30) 25...200	2	290x329	150	20	27	0,7	25	0,4	350x555x375	2002.0004.01	1	
MPC®-220B	(-30) 25...200	2	290x329	150	20	20	0,2	17	0,18	350x555x375	2038.0024.99	1	
CC®-225B	(-30) 25...200	2	290x329	200	25	27	0,7	25	0,4	350x555x425	2002.0005.01	1	
MPC®-225B	(-30) 25...200	2	290x329	200	25	20	0,2	17	0,18	350x555x425	2038.0025.99	1	

# Heating bath circulators

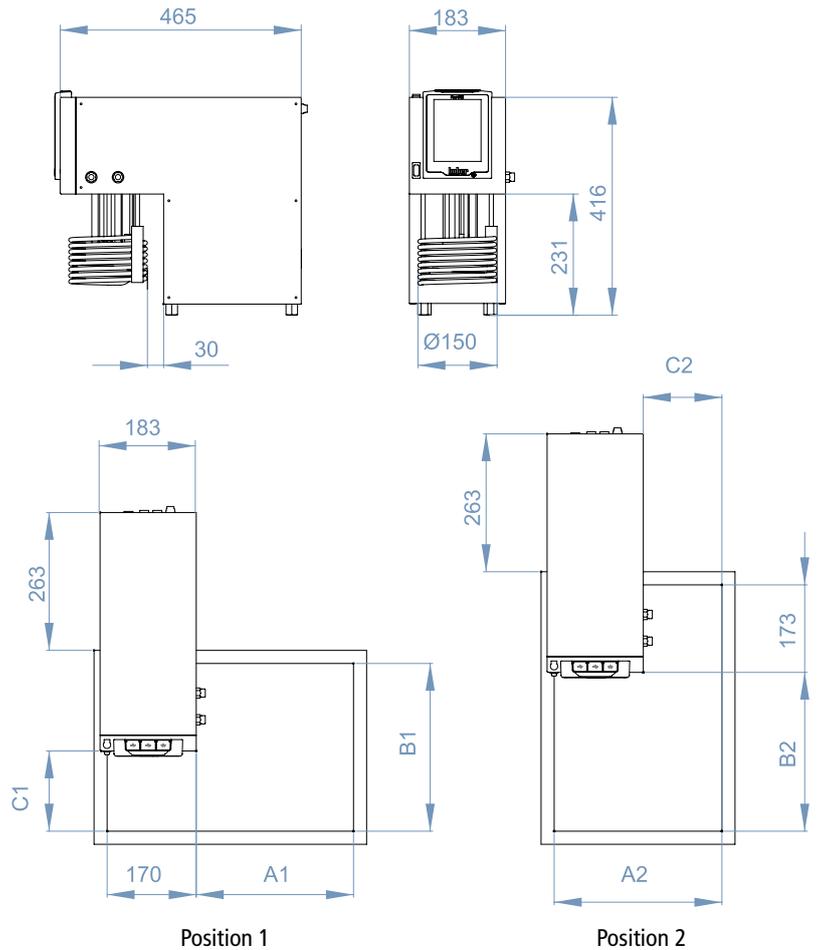
Heating baths circulators are suitable for temperatures up to 200 °C or 300 °C depending on model. The Compatible Control models have a continuously variable pressure and suction pump. The pump pressure can be controlled with an optional pressure sensor, and so can protect your valuable glass-ware from

breakage. The machines are preferred and used for temperature control of externally connected applications. Additionally there is the possibility to control the temperature of objects placed directly in the open bath.



Model	Temperature Range (°C)	Bath Volume (ltr)	Bath Depth (mm)	Heating Power (kW)	Temperature Stability to DIN 12876 (K)	Pump Data				Cat.No.	G	Price
						max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)					
CC®-205B	(-30) 45...200	5,0	150	2,0	0,02	27	0,7	25	0,4	2004.0001.01	1	
MPC®-205B	(-30) 45...200	5,0	150	2,0	0,05	20	0,2	17	0,18	2040.0005.99	1	
CC®-304B	(-20) 28...300	5,0	155	2,0	0,02	33	0,7	22	0,4	2005.0001.01	1	
CC®-308B	(-20) 28...300	8,5/5,2*	155	3,0	0,02	33	0,7	22	0,4	2006.0001.01	1	
CC®-315B	(-20) 28...300	15/8,5*	200	3,0/4,0	0,02	33	0,7	22	0,4	2007.0001.01	1	

\* with displacement insert



## Variostat® – the cooling circulator for a variety of baths

This unique immersion circulator can thermoregulate a wide range of baths between -30 °C and 150 °C. The innovative construction allows the user ultimate flexibility. The circulation can be adjusted to suit the bath size using the stepless variable speed suction/pressure pump. The pump can also be controlled with an optional pressure sensor for external applications.

Insulated stainless steel baths are available in three standard sizes or can be made to measure. A drain is fitted as standard on the short side (or on request this can be fitted on the long side). The order number has the suffix L to indicate the drain on the long side (Example 6052-L).



Volume (Litre)	End Temp. (°C)	Cooling Time* (min) with Ethanol to			free Bath Opening (mm)					
		0°C	-10°C	-20°C	Position 1			Position 2		
					A1	B1	C1	A2	B2	C2
5,5	-30	15	30	55	85	160	–	160	85	–
11,0	-25	30	60	110	200	200	28	200	198	30
22,0	-20	65	130	240	300	320	148	320	298	150

\*Cooling time, measured with 2/3 of bath covered

Model	Working Temperature Range (°C)	Bath Volume (ltr)	Heating Power (kW)	Pump Data				Cooling Power (kW) at (°C)					Cat.No.	G	Price
				max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	100	20	0	-20	-30					
Variostat®	-30...150	variable	1,0	27	0,7	20	0,4	0,3	0,3	0,2	0,12	0,03	2013.0003.01	2	

Function version available by E-grade®

Temperature Stability to DIN 12876: 0,02 K

Natural refrigerant as standard

# Ministats® Compact cooling circulators

Exceptionally compact and powerful, Ministats have been the smallest cooling circulators in the world since 1976. Their compact form allows them to be placed in small spaces, e.g. in a laboratory extraction hood. All three Ministats are now available with air or water cooling. Compliance with DIN 12876, class 3 allows them to be used unsupervised in continual operation. The maximum ambient temperature is 40 °C.

The powerful variable speed pressure/suction pump can thermoregulate objects in the bath or external applications. The maximum pressure can be controlled using an optional pressure sensor – VPC (Variable Pressure Control) – which protects delicate glassware. The small volume and high power of the Ministats means exceptionally rapid heating and cooling rates are achieved. Optional displacement inserts reduce the bath volume by approximately 50 % amplifying this effect and reducing moisture absorption in the thermal fluid. All models have Active Cooling Control for cooling power control at the maximum working temperature and an automatic cooling power regulation for energy saving operation and reduced heat dissipation into the lab. The bath opening is large enough to allow small objects to be thermoregulated within. All parts in contact with

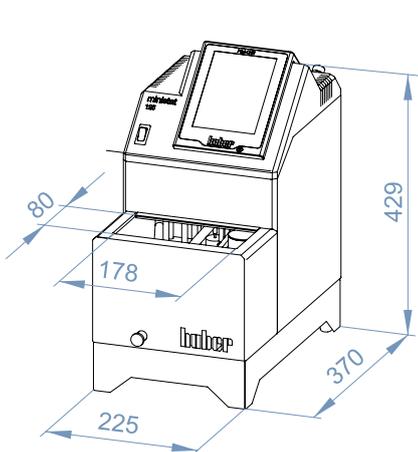
the thermal fluid are made of stainless steel or Polycarbonate.

Ministats have the **Pilot ONE** with Plug & Play technology (proven since 1980). In the event of service the controller can be simply swapped. Using a data cable the Ministat can be remotely controlled. The **Pilot ONE** has a state of the art microprocessor controller and a high precision temperature measurement system for exact and reproducible temperature control. The functionality and TFT-display are supported by Easy Control. Ministats can be fitted with a Com.G@te (NAMUR Standard) allowing them to be integrated into a process control system.

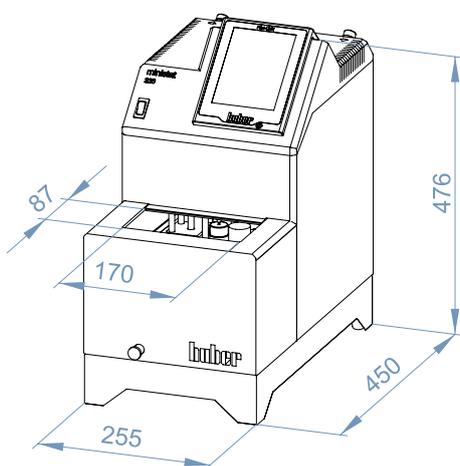
Typical applications for the smallest cooling circulator in the world are external closed systems e.g. photometer, refractometer and viscosimeter.

#### Increased functionality with optional accessories:

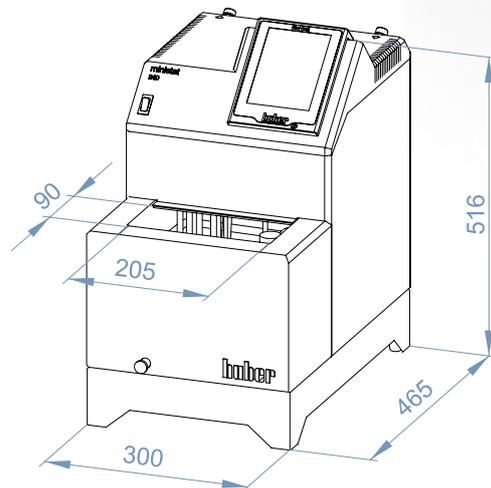
- External pressure sensor for VPC pressure control
- Com.G@te (NAMUR Standard): RS232, RS485, programmable volt-free contact, ECS (external control signal), Level monitoring
- Calibration and displacement inserts



| Ministat® 125 |



| Ministat® 230 |



| Ministat® 240 |

Model	Working Temperature Range (°C)	Bath		Heating Power (kW)	Pump Data				Cooling Power (kW) at (°C)				Cat.No.	G	Price
		Volume (ltr)	Depth (mm)		max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	20	0	-20	-30					
Ministat® 125	-25...150	2,75/1,3*	120	1,0	27	0,7	20	0,4	0,30	0,21	0,05	–	2014.0011.01	2	
Ministat® 125w	-25...150	2,75/1,3*	120	1,0	27	0,7	20	0,4	0,30	0,20	0,10	–	2014.0006.01	2	
Ministat® 230	-40...200	3,2/1,7*	135	2,0	27	0,7	20	0,4	0,42	0,38	0,25	0,14	2015.0005.01	2	
Ministat® 230w	-40...200	3,2/1,7*	135	2,0	27	0,7	20	0,4	0,42	0,38	0,25	0,14	2015.0007.01	2	
Ministat® 240	-45...200	4,9/2,8*	157	2,0	27	0,7	20	0,4	0,60	0,55	0,35	0,125	2016.0005.01	2	
Ministat® 240w	-45...200	4,9/2,8*	157	2,0	27	0,7	20	0,4	0,60	0,55	0,35	0,125	2016.0006.01	2	

\* with displacement insert

Temperature Stability to DIN 12876: 0,02 K

All units use natural refrigerant as standard



| Ministat® 240 |



| Ministat® 230 |



| Ministat® 125\*\* |

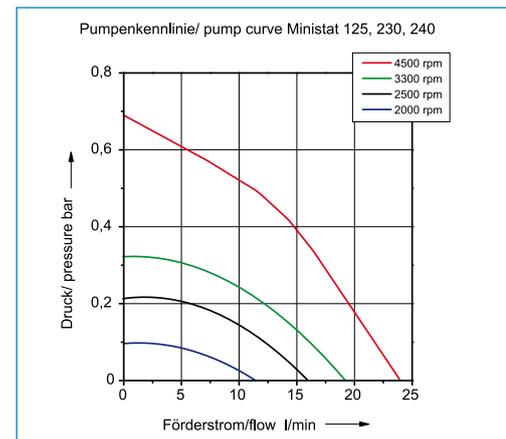
## Features

- Compact ergonomic design
- **Pilot ONE** with Plug & Play technology
- Large and full colour 5,7" TFT touch-screen, EASY Control
- Connections for RS232, USB and Ethernet
- Steplessly variable pump speed for homogeneous temperature distribution in bath or optimal circulation and heat transfer in external applications
- Active Cooling Control
- Pt100 External-Sensor
- Calibratable temperature sensor
- Adjustable over temperature and level protection
- Compliant with DIN12876-1 class 3
- Pump connections for external applications
- Bath opening for thermoregulation of objects in bath
- Drain tap on front (option)\*\*

**VPC**  
Variable Pressure Control

**DIN 12876**  
Our cooling powers are always quoted at full pump speed

**Plug & Play**  
3 years warranty



## Compatible Control Refrigeration Circulators

The K6 models are compact refrigeration bath circulators for temperatures from -25 to 200 °C. These units are a combination of a refrigerated bath and immersion circulator, in combination with an integrated pump they are suitable for external open\* or closed applications.

The CC-E immersion circulator with its suction/pressure pump is suitable for externally open and closed applications. The temperature stability is 0,02 K for the Compatible Control models and 0,05 K for the MPC models.

\*with optional level control



| CC®-K6 |  
| CC®-K6s |



| MPC®-K6 |  
| MPC®-K6s |

Natural Refrigerant!



Model	Working Temperature Range (°C)	Heating Power (kW)	Bath			Pump Data				Cooling Power (kW) at (°C)			Dimensions WxDxH (mm)	Cat.No.	G	Price
			Opening (mm)	Depth (mm)	Volume (ltr)	max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	20	0	-20						
CC®-K6	-25...200	2	140x120	150	4,5	27	0,7	25	0,4	0,20	0,15	0,05	210x400x546	2008.0005.01	2	
MPC®-K6	-25...200	2	140x120	150	4,5	20	0,2	17	0,18	0,20	0,15	0,05	210x400x546	2008.0019.99	2	
CC®-K6s	-25...200	2	140x120	150	4,5	27	0,7	25	0,4	0,26	0,21	0,05	210x400x546	2008.0002.01	2	
MPC®-K6s	-25...200	2	140x120	150	4,5	20	0,2	17	0,18	0,26	0,21	0,05	210x400x546	2008.0020.99	2	

All units use natural refrigerant as standard

**Plug & Play**  
3 years warranty



| CC®-K20 / CC®-K25 |

| CC®-K12 / CC®-K15 |

| MPC®-K20 / MPC®-K25 |

| MPC®-K12 / MPC®-K15 |

**Natural Refrigerant!**



## Cooling Circulators

Combinations of immersion circulators and insulated refrigeration baths are a 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 (optional) can be fitted for thermoregulation of externally closed and externally open\* applications. Models

with the **Pilot ONE** have a variable speed pressure/suction pump and are suitable for externally open thermoregulation applications. The temperature stability is 0,02 K for the Compatible Control models and 0,05 K for the MPC models.

\*with optional level control

Model	Working Temp. Range (°C)	Heating Power (kW)	Bath			Pump Data				Cooling Power (kW) at			Dimensions WxDxH (mm)	Cat.No.	G	Price
			Opening (mm)	Depth (mm)	Volume (ltr)	max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	0°C	-10°C	-20°C						
CC®-K12	-20...200	2	290 x 152	150	12	27	0,7	25	0,4	0,2	0,12	0,05	350 x 560 x 430	2009.0002.01	2	
MPC®-K12	-20...200	2	290 x 152	150	12	20	0,2	17	0,18	0,2	0,12	0,05	350 x 560 x 430	2009.0011.99	2	
CC®-K15	-20...200	2	290 x 152	200	15	27	0,7	25	0,4	0,2	0,12	0,05	350 x 560 x 430	2010.0002.01	2	
MPC®-K15	-20...200	2	290 x 152	200	15	20	0,2	17	0,18	0,2	0,12	0,05	350 x 560 x 430	2010.0010.99	2	
CC®-K20	-30...200	2	290 x 329	150	20	27	0,7	25	0,4	0,35	0,27	0,16	350 x 555 x 615	2011.0002.01	2	
MPC®-K20	-30...200	2	290 x 329	150	20	20	0,2	17	0,18	0,35	0,27	0,16	350 x 555 x 615	2011.0009.99	2	
CC®-K25	-30...200	2	290 x 329	200	25	27	0,7	25	0,4	0,35	0,27	0,16	350 x 555 x 615	2012.0002.01	2	
MPC®-K25	-30...200	2	290 x 329	200	25	20	0,2	17	0,18	0,35	0,27	0,16	350 x 555 x 615	2012.0009.99	2	

Safety class III/FL

All units use natural refrigerant as standard

# Refrigeration Bath Circulators

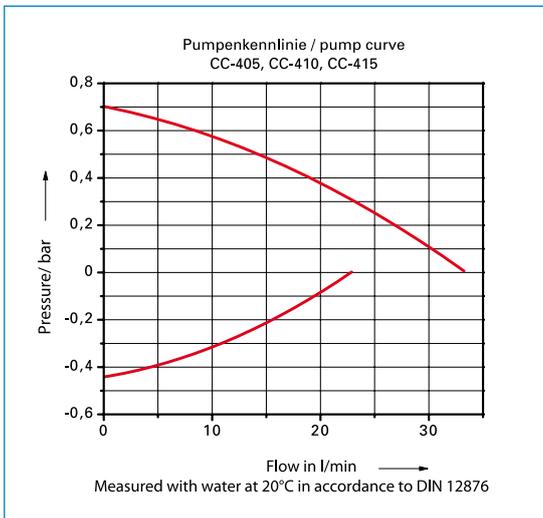
Huber refrigerated bath circulators perform safe and repeatable heating and cooling tasks in the lab. 22 models covering the range -90 to 200 °C with a selection of heating and cooling powers are available with air or water cooling (w). Natural refrigerants for environmentally friendly operation are available on request. A powerful variable speed pressure/suction pump allows the thermoregulation of objects directly in the bath or can be used to control external applications. The pump speed is stepless and when used in combination with an optional pressure sensor the maximum pressure can be controlled. VPC (Variable Pressure Control) ensures the best circulation and protects delicate glass apparatus from breakage caused by overpressure.

Small volume and high heating and cooling powers result in the shortest heating and cooling rates. Optional displacement inserts reduce the bath volume by half increasing this effect. Additionally the bath surface area is reduced, lowering moisture absorption. The optional calibration insert allows all Huber refrigeration circulators to be used as calibration baths.

The calibration insert ensures an even temperature distribution with a temperature stability of +/-0,01 K. All models have Active Cooling Control for cooling power control at the maximum working temperature and an automatic cooling power regulation for energy saving operation and reduced heat dissipation into the lab. Depending on the model carry handles or castors are fitted for easy transportation. The drain is located on the front of the unit to enable simple drainage of the bath. The cover plate is thermoregulated to avoid condensation. All models have the **Pilot ONE** with Plug & Play technology which can be simply swapped in the event of a service.



| CC®-405 |



Model	Working Temperature Range (°C)	Bath		Heating Power (kW)	Pump Data				Cooling Power (kW) at (°C)						Cat.No.	G	Price
		Volume (ltr)	Depth (mm)		max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	100	20	0	-20	-30	-40					
CC®-405	-40...200	5	150	1,5	33	0,7	22	0,4	0,7	0,7	0,7	0,45	0,18	0,03	2017.0001.01	2	
CC®-405w	-40...200	5	150	1,5	33	0,7	22	0,4	0,7	0,7	0,7	0,45	0,18	0,03	2017.0002.01	2	
CC®-410	-45...200	22/8,5*	200	3,0	33	0,7	22	0,4	0,8	0,8	0,8	0,5	0,15	0,1	2019.0004.01	2	
CC®-410wl	-45...200	22/8,5*	200	3,0	33	0,7	22	0,4	0,8	0,8	0,8	0,5	0,15	0,1	2019.0001.01	3	
CC®-415	-40...200	5	150	1,5	33	0,7	22	0,4	1,2	1,2	1,0	0,6	0,2	0,05	2018.0001.01	2	
CC®-415wl	-40...200	5	150	1,5	33	0,7	22	0,4	1,2	1,2	1,0	0,6	0,2	0,05	2018.0002.01	3	

\* with displacement insert

Option: natural refrigerant available on request

Temperature Stability to DIN 12876: 0,02 K



| CC®-505 |



| CC®-820w |

Model	Working Temp. Range (°C)	Bath		Heating Power (kW)	Pump Data				Cooling Power (kW) at (°C)					Cat.No.	G	Price
		Volume (ltr)	Depth (mm)		max. Pressure (l/min) (bar)	max. Suction (l/min) (bar)	100	20	0	-20	-40					
CC®-505	-50...200	5	150	1,5	33	0,7	22	0,4	1,2	1,2	1,0	0,6	0,15	2018.0003.01	2	
CC®-505wl	-50...200	5	150	1,5	33	0,7	22	0,4	1,2	1,2	1,0	0,6	0,15	2018.0004.01	3	
CC®-508	-55...200	5	160	3,0	33	0,7	22	0,4	1,5	1,5	1,5	1,0	0,3	2018.0013.01	2	
CC®-508w	-55...200	5	160	3,0	33	0,7	22	0,4	1,5	1,5	1,5	1,0	0,3	2018.0016.01	2	
CC®-510	-50...200	18/11*	200	3,0	31	0,6	24	0,35	2,1	2,1	2,1	1,0	0,4	2020.0001.01	2	
CC®-510w	-50...200	18/11*	200	3,0	31	0,6	24	0,35	2,4	2,4	2,4	1,0	0,4	2020.0002.01	2	
CC®-515	-55...200	26/15*	200	3,0	31	0,6	24	0,35	3,3	3,3	3,3	1,6	0,6	2021.0001.01	2	
CC®-515w	-55...200	18/11*	200	3,0	31	0,6	24	0,35	3,3	3,3	3,3	1,6	0,6	2020.0003.01	2	
CC®-520w	-55...200	17/10*	200	3,0	31	0,6	24	0,35	5,0	5,0	5,0	3,0	1,5	2022.0001.01	3	
CC®-525w	-55...100	17/10*	200	3,0	31	0,6	24	0,35	7,0	7,0	5,0	3,0	1,5	2023.0001.01	3	
CC®-805	-80...100	5	150	1,5	33	0,7	22	0,4	0,5	0,5	0,5	0,4	0,3	2024.0001.01	2	
CC®-820	-80...100	17/10*	200	3,0	31	0,6	24	0,35	1,2	1,2	1,2	1,1	0,9	2025.0001.01	3	
CC®-820w	-80...100	17/10*	200	3,0	31	0,6	24	0,35	1,2	1,2	1,2	1,1	0,9	2025.0002.01	3	
CC®-902	-90...200	5	150	1,5	33	0,7	22	0,4	1,2	1,2	1,2	1,1	0,9	2026.0005.01	3	
CC®-905	-90...200	26/15*	200	3,0	31	0,6	24	0,35	2,0	2,0	2,0	1,9	1,7	2027.0001.01	3	
CC®-905w	-90...200	26/15*	200	3,0	31	0,6	24	0,35	2,0	2,0	2,0	1,9	1,7	2027.0002.01	3	
CC®-906w	-90...200	30/19*	200	3,0	31	0,6	24	0,35	3,0	3,0	3,0	2,8	2,4	2036.0001.01	3	

\* with displacement insert

Function version available by E-grade®

Option: natural refrigerant available on request

Temperature Stability to DIN 12876: 0,02 K



| BFT®5 |

## Beer Force-Ageing-Test Bath

We offer a special air cooled circulator for the Beer Force-Ageing-Test. It is equipped with a programmer for the change between 0 °C / 40 °C and 0 °C / 60 °C in a 24 hour cycle. Casings and bath parts are made of stainless steel.

Model	Working Temperature Range (°C)	Bath Opening W x D (mm)	Bath Depth (mm)	Heating Power (kW)	Cooling Power at 20°C (kW)	Dimensions WxDxH (mm)	Cat.No.	G	Price
BFT®5	-40...80	350x410	270	2,0	1,2	460x710x911	2041.0001.01	3	

Safety class III/FL

## High Precision Calibration

Calibration baths are used in quality management departments of industry and research. The modular concept based on the combination of a calibration bath with a Unistat, which dictates the temperature range and speed of temperature change. The calibration space is freely accessible and symmetrical. The upper edge is designed to allow exact reading of the temperature measured by glass thermometers and also offers a tight seal for the customer specific bath lid. Special calibration software in the circulator and the self-optimising controller with TAC technology mean short times between the different calibration temperatures. The calibration space of the baths can be customised to suit specific customer requirements.

### Advantages

- Highest temperature stability up to  $\pm 0,002$  K
- Temperature homogeneity better than  $\pm 0,01$  K
- External overflow vessel
- 5-point calibration of the control sensor

The insulated stainless steel or PTFE bath covers allow for individual data recordings for sensors and thermometers, etc. We can custom design and manufacture the covers to your specifications (additional cost).



Flexible solutions for calibration in production

Cal 700 – Calibration bath for measurement and control sensors

Accessories	Temperature Range (°C)	Cat.No.	G	Price
Bath Covers stainless steel*	-100...300	6367	1	
Bath Covers PTFE*	-100...200	6365	1	

\*Additional cost for holes

Model	Temperature Range (°C)	Pump Connection	Dimensions WxDxH (mm)	Opening (mm)	Bath Depth (mm)	Volume (ltr)	Cat.No.	G	Price
Cal 700	-100...300	M30x1,5	300 (440*)x300x566	Ø118	384	7,0	9623	3	

\* with external overflow vessel (140 mm)

# Hotbox

The Hotbox is a heating circulator with **Pilot ONE** for thermoregulation of externally open applications. With its compact form the Hotbox is ideal for installation in production systems. The Hotbox has a stainless steel pump and adjustable over temperature protection complying with DIN 12876.

| Application example |



| HB120 |

Model	Working Temperature Range (°C)	Connection	Pump Flow Rate (l/min)	max. Pressure (bar)	Heating Power (kW)	Dimensions WxDxH (mm)	Cat.No.	G	Price
HB45	45...250	M24x1,5	55	0,9	4,5	185x440x405	2030.0001.01	3	
HB60	60...250	M30x1,5	90	2,5	6,0	323x451x498	2031.0004.01	3	
HB120	60...250	M30x1,5	100	2,5	12,0	323x451x498	2031.0003.01	3	

# Heat Transfer Station (HTS)

The HTS as no mechanical refrigeration but is fitted with a circulation pump, a plate heat exchanger and the **Pilot ONE** controller\*. This compact circulator provides low cost cooling with a predictably stable pressure and flow to the application. As no mechanical refrigeration system is fitted (compressor etc.), the machine is silent, efficient and energy saving. It offers an economic alternative to standard circulators when a chilled water supply is already available. The HTS heat exchanger is suited for temperature control of bio reactors, condensers, rotary evaporators, vapour traps etc.

| HTS PS5 |



### Advantages: Models HTS PS3-PS15

- Efficient circulation pump
- **Pilot ONE** controller
- RS232 interface
- Pt100 external sensor connection
- Efficient thermal transfer
- Low cooling water usage
- Application protection with cooling stage separation

### \*Model HTS PS1

This model includes the heat exchanger system, but is not equipped with the **Pilot ONE** controller. This unit is suitable for less demanding applications.

Model	Operating Temperature Range (°C)	Pump Flow Rate (l/min)	max. Pressure (bar)	Cooling Power <sup>2</sup> at 20°C (kW)	Heating Power OPTIONAL (max. kW) <sup>3</sup>	Dimensions WxDxH (mm)	Cat.No.	G	Price
HTS PS1 <sup>1</sup>	5...80	8	0,2	0,6	–	280x427x414	3011.0008.99	2	
HTS PS3	3...95	33	0,7	3,0	2	280x491x414	3011.0001.01	3	
HTS PS5	3...95	25	2,5	5,0	2	280x491x414	3011.0006.01	3	
HTS PS6	3...95	25	2,5	6,0	10	400x491x529	3011.0002.01	3	
HTS PS15	3...95	25	2,5	15,0	10	400x491x529	3011.0024.01	4	

<sup>1</sup> air cooled

<sup>2</sup> Cooling power data measured with cooling water-inlet temperature of 10 °C and 2 bar

<sup>3</sup> Optionally available on request with heating and over temperature protection

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Quality  
Made in Germany



Best value  
for money



Unique  
Plug & Play



Case studies for  
performance comparison



Proven  
technology



Worldwide  
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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



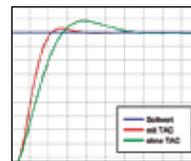
Models for all  
applications



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