

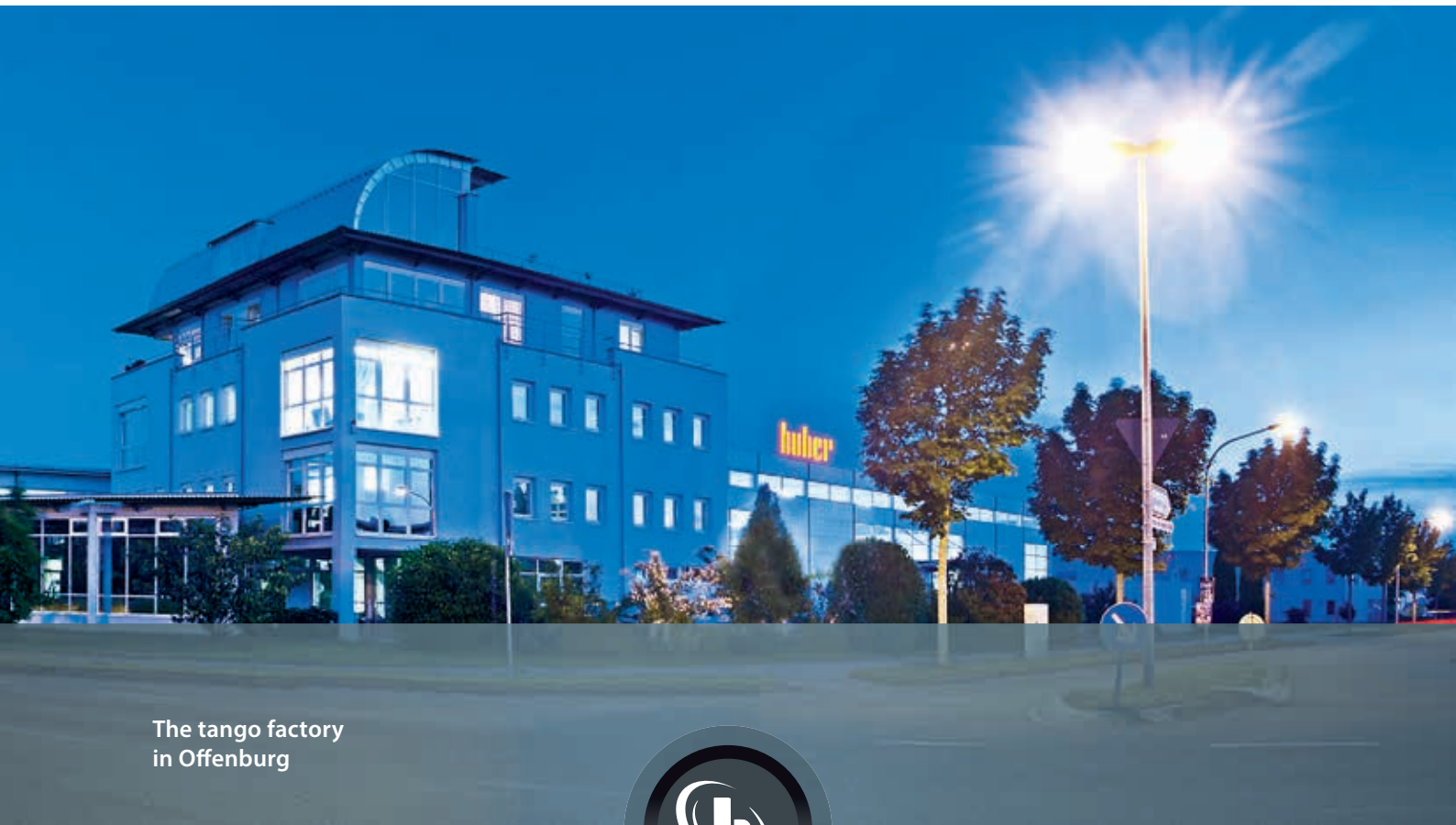
Product Overview



Inspired by temperature

High precision temperature control solutions
for research and industry

huber



The tango factory
in Offenburg



Welcome to Huber

High-precision temperature control solutions – inspired by temperature, driven by customer needs

Since 1968 we have been developing and producing high-precision temperature control systems for research and production in diverse industries and market sectors. Worldwide, our products ensure accurate control and reproducible temperatures in the range -125 to 425°C. Our product programme offers environmentally-friendly solutions with systems manufactured using natural refrigerants and recyclable materials.

Our customers all over the world report increased productivity and efficiencies as a result of the many innovations that are the basis of our technological lead.

The Unistat technology, which leads in thermodynamics and accuracy, was and remains a revolution in temperature control technology. We are proud to be recognised as a benchmark and a technology leader. We aim to continue to be your leading supplier of environmentally-friendly temperature control technology.

We do not need to be the biggest supplier, but we do want to be the best.

Daniel Huber, CEO

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Controller functions and E-grades

Function/Features		KISS Controller	OLÉ Controller	
Thermoregulation	Controller parameter tuning	predefined		
	Calibration program for control sensor (internal, process)	1-point		
	Monitoring (Level protection, over temperature protection ²)	✓	✓	
	Adjustable limit alarms			
	VPC (Variable Pressure Control) ³	✓	✓	
	Venting program	✓	✓	
	Compressor automatic control	✓	✓	
	Set point limits	✓	✓	
	Programmer			
	Ramp function			
	Temperature control mode (internal, process)			
	Maximum heating / cooling power adjustable			
	Display and operation	Temperature display	OLED	
		Display mode	numeric	
Display resolution		0,1 °C		
Graphic display of temperature curves				
Calendar, Date, Time				
Languages menu navigation		DE, EN		
Temperature format		°C / °F	°C / °F	
Display mode (screen) switch by swiping				
Favourites menu				
User menus (Administrator level)				
2. set point				
Connections		Digital interface RS232	✓	✓
	USB interface	✓	✓	
	Ethernet RJ45 interface			
	Pt100 control probe connection (external control)			
	Pt100 sensor connection (only display)	✓ ¹	✓ ¹	
	External control signal / ECS STANDBY ⁵		✓ ¹	
	Programmable volt-free contact / ALARM ⁵		✓ ¹	
	AIF (analog interface) 0/4-20 mA or 0-10 V ⁶			
	Digital interface RS485 ⁶			
Various	Alarm signal optical / acoustic	✓	✓	
	AutoStart (Mains failure automatic)	✓	✓	
	Plug & Play technology			
	Technical glossary			
	Remote control / Data visualisation via Spy Software	✓	✓	
	E-grade Evaluation versions available (30 days)			
	Service data recorder (flight recorder)			
	Saving/loading of temperature control programs			
	Process data logging direct to USB stick			
	Calendar start			
	Tools for process development and optimisation			
	Process data access (system performance, ΔT, pump, etc.)			

¹ 30-days evaluation version TAC function available

² For units with integrated over-temperature protection

³ For models with variable-speed pump or an external bypass



Petite Fleur, Grande Fleur
and Tango for the
research laboratory



Unistats for
process
technology



Unistats
for
industry



Dynamic temperature control

-125 °C ... +425 °C





Unistats are predestined for demanding demanding temperature control applications in all industries



Unistats embody responsive performance and fast dynamics for demanding applications

Unistat[®] – The Original

Unistats cannot be compared with conventional temperature control technology. Thermodynamically, there is no better solution.

The introduction of the Unistat technology in 1989 has initiated a revolution in fluid temperature control. Unistats are the ideal solution when it comes to fast and highly precise temperature control of externally connected applications. Compared to traditional circulation thermostats, Unistats impress with extremely fast temperature changes over and broad temperature ranges without liquid change.

Unistats were developed for demanding applications in the Chemical and Pharmaceutical industries such as the temperature control of reactors, autoclaves, miniplant/pilot systems, reactor blocks and calorimeters. They are now equally at home providing temperature control solutions across the industrial spectrum. You can select from over 70 models with cooling capacities from 0,48 to 130 kW. Unistats provide consistently stable process conditions at any time.

Dynamic temperature control systems



Responsive thermodynamics for fast control behaviour for chemical processes



Extremely fast heating and cooling rate due to small internal volumes



Broad working temperature ranges without liquid change and long life



Process stability and reproducible results at any time for solid research work



Intelligent TAC function continually monitors performance and automatically tunes the PID parameters for optimum control



Wide range of models with covering different temperature ranges and cooling capacities of up to 130 kW for laboratory and production



Unistats®

► Petite Fleur®, Grande Fleur® and Tango®

The entry level in the world of Unistats. The compact dimensions and excellent thermodynamics make the Petite Fleur, Grande Fleur and Tango ideal for precise temperature control of research reactors.

➔ **Down to -45 °C**
Working temperature

➔ **Up to 0,7 kW**
Cooling power

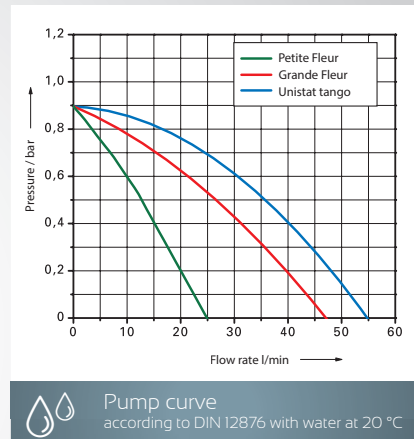
➔ **Up to 55 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller

➔ Unistat tango



➔ Petite Fleur, Grande Fleur



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		200	20	0	-20	-30			
Petite Fleur	-40...200	25	0,9 ¹	1,5	0,48	0,48	0,45	0,27	0,16	260 x 450 x 504	1030.0001.01	3
Petite Fleur w	-40...200	25	0,9 ¹	1,5	0,48	0,48	0,45	0,27	0,16	260 x 450 x 504	1030.0003.01	3
Petite Fleur-eo	-40...200	25	0,9 ¹	1,5	0,48	0,48	0,45	0,27	0,16	260 x 450 x 504	1030.0004.01	3
Grande Fleur	-40...200	47	0,9 ¹	1,5	0,60	0,60	0,60	0,35	0,20	295 x 530 x 570	1041.0001.01	3
Grande Fleur w	-40...200	47	0,9 ¹	1,5	0,60	0,60	0,60	0,35	0,20	295 x 530 x 570	1041.0007.01	3
Grande Fleur-eo	-40...200	47	0,9 ¹	1,5	0,60	0,60	0,60	0,35	0,20	295 x 530 x 570	1041.0004.01	3
Grande Fleur w-eo	-40...200	47	0,9 ¹	1,5	0,60	0,60	0,60	0,35	0,20	295 x 530 x 570	1041.0010.01	3
Unistat tango*	-45...250	55	0,9 ¹	3,0	0,70	0,70	0,70	0,40	0,40	426 x 327 x 631	1000.0037.01	3
Unistat tango w	-45...250	55	0,9 ¹	3,0	0,70	0,70	0,70	0,40	0,40	426 x 327 x 631	1000.0039.01	3
Unistat tango wl*	-45...250	55	0,9 ¹	3,0	0,70	0,70	0,70	0,40	0,40	426 x 327 x 631	1000.0040.01	3

¹ integrated VPC pressure control

w = water-cooled | eo = externally open | wl = air-/water-cooled

► Series 400

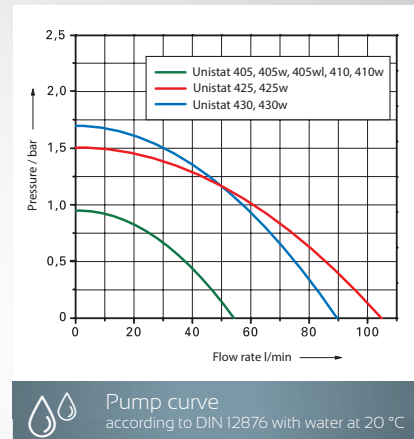
The Unistats of the series 400 are ideal for applications in process and chemical engineering, such as temperature control of reactors, autoclaves, mini-plant/pilot systems, reactor blocks and calorimeters.

➔ **Down to -45 °C**
Working temperature

➔ **Up to 3,5 kW**
Cooling power

➔ **Up to 105 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		250	100	0	-20	-40			
Unistat 405	-45...250	55	0,9 ¹	3,0	1,0	1,0	1,0	0,6	0,15	426 x 327 x 631	1002.0045.01	3
Unistat 405w	-45...250	55	0,9 ¹	3,0	1,3	1,3	1,3	0,7	0,15	426 x 327 x 631	1002.0046.01	3
Unistat 405wl	-45...250	55	0,9 ¹	3,0	1,3	1,3	1,3	0,7	0,15	426 x 327 x 631	1002.0049.01	3
Unistat 410	-45...250	55	0,9 ¹	3,0	1,7	2,5	1,5	0,8	0,2	460 x 554 x 1200	1031.0016.01	3
Unistat 410w	-45...250	55	0,9 ¹	1,5/3,0	1,7	2,5	1,5	0,8	0,2	426 x 360 x 631	1031.0005.01	3
Unistat 425	-40...250	105	1,5 ²	2,0	2,0	2,0	2,5	1,8	0,2	460 x 554 x 1453	1005.0057.01	35
Unistat 425w	-40...250	105	1,5 ²	2,0	2,8	2,8	2,5	1,9	0,2	460 x 554 x 1453	1005.0058.01	35
Unistat 430	-40...250	90	1,7 ²	4,0	3,5	3,5	3,5	2,2	0,3	460 x 554 x 1453	1005.0059.01	35
Unistat 430w	-40...250	90	1,7 ²	4,0	3,5	3,5	3,5	2,2	0,3	460 x 554 x 1453	1005.0060.01	35

Options on request: natural refrigerant, Flat build models

¹ integrated VPC pressure control

² VPC pressure control via optional bypass

w = water-cooled | wl = air-/water-cooled

Unistats®

► Series 500

Unistats of model 500 series with cooling capacities up to 30 kW are ideally suited for temperature control applications in process and chemical engineering as well as for demanding material testing and temperature simulations in different industry sectors.

➔ **Down to -55 °C**
Working temperature

➔ **Up to 30 kW**
Cooling power

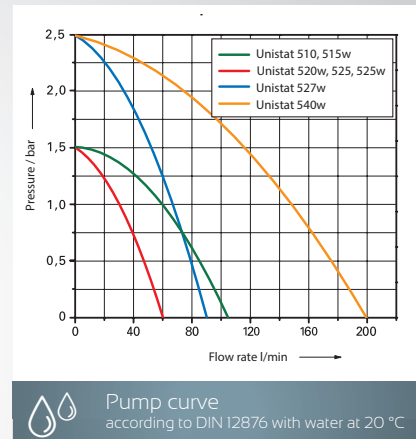
➔ **Up to 200 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



➔ Unistat 510

➔ Unistat 520w



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		250	100	0	-20	-40			
Unistat 510	-50...250	105	1,5 ²	6,0	5,3	5,3	5,3	2,8	0,9	1100x755x1370	1005.0082.01	35
Unistat 510w	-50...250	112	1,5 ²	6,0	5,3	5,3	5,3	2,8	0,9	460x554x1453	1050.0006.01	35
Unistat 515w	-55...250	105	1,5 ²	6,0	7,0	7,0	5,3	2,8	0,9	460x554x1453	1050.0007.01	4
Unistat 520w	-55...250	79	1,5 ²	6,0	6,0	6,0	6,0	4,2	1,5	540x604x1332	1051.0003.01	4
Unistat 525	-55...250	60	1,5 ²	6,0	10,0	10,0	7,0	4,2	1,5	1290x736x1596	1033.0015.01	4
Unistat 525w	-55...250	60	1,5 ²	6,0	10,0	10,0	7,0	4,2	1,5	540x604x1332	1051.0001.01	4
Unistat 527w	-55...250	90	2,5 ²	6,0	7,0	12,0	12,0	6,0	2,0	540x704x1491	1034.0014.01	4
Unistat 530w	-55...250	191	2,5 ²	12,0	21,0	21,0	16,0	9,0	3,0	730x860x1520	1045.0005.01	4
Unistat 540w	-55...250	200	2,5 ²	24,0	30,0	30,0	30,0	16,0	4,0	730x860x1520	1060.0001.01	4

Options on request: natural refrigerant, Flat build models ²VPC pressure control via optional bypass

w = water-cooled

► Series 600

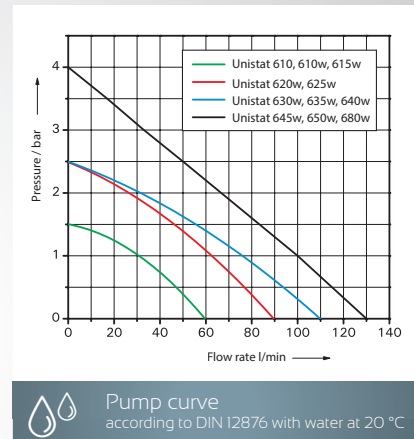
The Unistats of 600 series are our most powerful devices and offer very high cooling capacities of up to 130 kW. These devices are the first choice for applications with high cooling requirements for temperatures down to -60 °C.

➔ **Down to -60 °C**
Working temperature

➔ **Up to 130 kW**
Cooling power

➔ **Up to 130 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		200	0	-20	-40	-60			
Unistat 610	-60...200	60	1,5 ²	6,0	7,0	7,0	6,4	3,3	0,8	1290x735x1596	1007.0040.01	4
Unistat 610w	-60...200	60	1,5 ²	6,0	7,0	7,0	6,4	3,3	0,8	630x704x1520	1007.0031.01	4
Unistat 615w	-60...200	60	1,5 ²	12,0	9,5	9,5	8,0	4,0	0,5	630x704x1520	1052.0010.01	4
Unistat 620w	-60...200	90	2,5 ²	12,0	12,0	12,0	12,0	6,5	1,8	730x804x1520	1008.0040.01	4
Unistat 625w	-60...200	90	2,5 ²	12,0	16,0	16,0	15,0	7,4	2,2	730x804x1520	1008.0041.01	4
Unistat 630w	-60...200	110	2,5 ²	24,0	22,0	21,0	20,0	14,0	5,0	950x1005x1650	1009.0021.01	5
Unistat 635w	-60...200	110	2,5 ²	24,0	27,0	27,0	25,0	18,0	6,0	950x1005x1650	1009.0022.01	5
Unistat 640w	-60...200	110	2,5 ²	30,0	32,0	35,0	30,0	18,0	6,0	950x1005x1650	1010.0007.01	5
Unistat 645w	-60...200	130	4,0 ²	36,0	45,0	45,0	42,0	21,0	6,0	1800x1200x1830	1063.0001.01	5
Unistat 650w	-60...200	130	4,0 ²	48,0	65,0	65,0	56,0	29,0	10,0	1800x1200x1830	1063.0003.01	5
Unistat 680w	-60...200	130	4,0 ²	96,0	130,0	130,0	80,0	60,0	20,0	4500x2000x2000	1013.0003.01	5

Options on request: natural refrigerant, Flat build models, additional heating capacity, air cooled units

²VPC pressure control via optional bypass

w = water-cooled

Unistats®

► Series 700 / 800

Unistats of the 700 and 800 series are characterised by low-end working temperatures down to -85 °C with compact dimensions. These devices are suited mainly for temperature applications with moderate cooling capacity requirements.

➔ **Down to -85 °C**
Working temperature

➔ **Up to 2,4 kW**
Cooling power

➔ **Up to 55 l/min**
Pump capacity

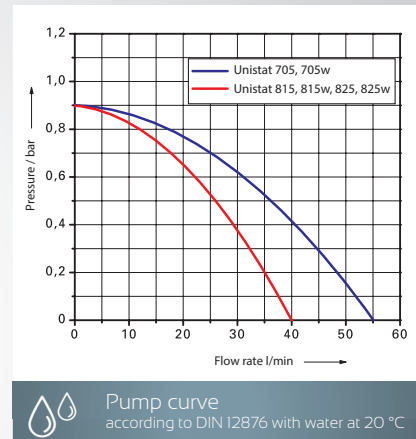
➔ **Pilot ONE**
Touch screen controller



➔ Unistat 825



➔ Unistat 705w



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions WxDxH (mm)	Cat.No.	G
		(l/min)	(bar)		250	0	-20	-40	-80			
Unistat 705	-75...250	55	0,9 ¹	1,5/3,0	0,6	0,65	0,6	0,6	-	425 x 400 x 720	1068.0001.01	3
Unistat 705w	-75...250	55	0,9 ¹	1,5/3,0	0,6	0,65	0,6	0,6	-	425 x 400 x 720	1001.0042.01	3
Unistat 815	-85...250	40	0,9 ¹	2,0	1,3	1,5	1,5	1,4	0,2	460 x 604 x 1465	1014.0049.01	35
Unistat 815w	-85...250	40	0,9 ¹	2,0	1,5	1,5	1,5	1,4	0,2	460 x 604 x 1465	1014.0050.01	35
Unistat 825	-85...250	40	0,9 ¹	3,0	2,3	2,2	2,0	2,0	0,3	460 x 604 x 1465	1014.0051.01	4
Unistat 825w	-85...250	40	0,9 ¹	3,0	2,3	2,4	2,4	2,4	0,3	460 x 604 x 1465	1014.0052.01	4

Options on request: natural refrigerant

¹ integrated VPC pressure control

w = water-cooled

► Series 900 / 1000

The Unistats of 900 and 1000 series are optimised for low temperature applications down to -120 °C. These devices are suited for temperature syntheses as well as material tests and temperature simulations with very low temperatures.

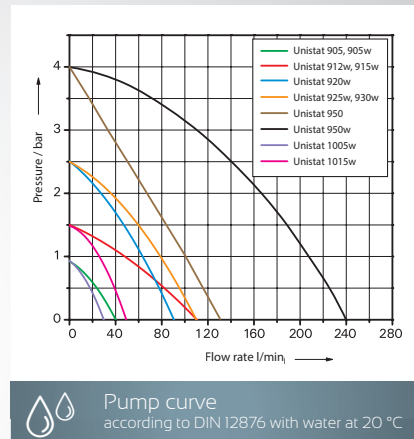


➔ **Down to -120 °C**
Working temperature

➔ **Up to 36 kW**
Cooling power

➔ **Up to 240 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



Model	Working temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)					Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		250	100	0	-60	-80			
Unistat 905	-90...250	40	0,9 ¹	6,0	4,0	3,8	3,6	2,2	0,7	540x654x1500	1035.0011.01	4
Unistat 905w	-90...250	40	0,9 ¹	6,0	4,5	4,5	4,5	2,5	0,7	540x654x1500	1035.0012.01	4
Unistat 912w	-90...250	110	1,5 ²	6,0	7,0	7,0	7,0	3,5	0,9	630x704x1565	1055.0003.01	4
Unistat 915w	-90...250	110	1,5 ²	6,0	11,0	11,0	11,0	4,0	1,1	630x704x1565	1055.0004.01	4
Unistat 920w	-90...200	90	2,5 ²	12,0	–	11,0	11,0	8,0	2,0	950x1205x1650	1017.0025.01	4
Unistat 925w	-90...200	110	2,5 ²	12,0	–	16,0	16,0	13,5	3,5	950x1205x1650	1017.0026.01	4
Unistat 930w	-90...200	110	2,5 ²	24,0	–	19,0	20,0	15,0	5,0	950x1205x1650	1017.0027.01	5
Unistat 950	-90...200	130	4,0 ²	36,0	–	30,0	30,0	24,0	10,0	3315x1485x3040	1018.0008.01	5
Unistat 950w	-90...200	240	4,0 ²	36,0	–	36,0	36,0	25,0	10,0	2630x1300x1980	1018.0014.01	5
Unistat 1005w	-120...100	30	0,9 ²	2,0	–	1,5	1,5	1,4	1,4	700x804x1520	1019.0009.01	4
Unistat 1015w	-120...100	44	1,5 ²	4,0	–	2,5	2,5	2,5	2,0	950x1205x1650	1020.0010.01	5

Options on request: natural refrigerant

¹ integrated VPC pressure control

² VPC pressure control via optional bypass

w = water-cooled

Unistats® high temperature

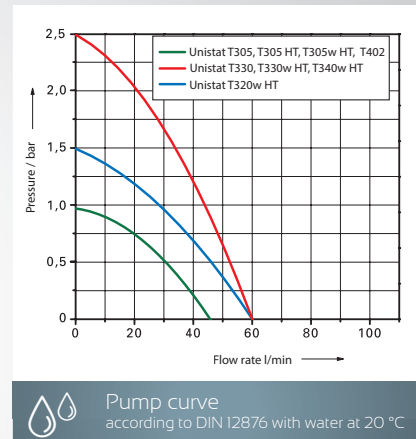
► Series T300 / T400

Unistats of the T300 and T400 series control temperatures in a highly precise and space-saving manner up to +425 °C. They set the standard for safety, ease of use and temperature control speed.

HT models are equipped with stepper motor controlled water cooling.



-  **Up to +425 °C**
Temperature range
-  **Up to 48 kW**
Heating power
-  **Up to 60 l/min**
Pump capacity
-  **Pilot ONE**
Touch screen controller



➔ Unistat T320w HT

➔ Unistat T305

Model	Temperature range (°C)	Pump max. VPC		Heating power (kW)	Cooling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		400	300	200	100			
Unistat T305	65...300	45	0,9 ¹	3,0/6,0	–	–	–	–	425 x 250 x 631	1003.0021.01	3
Unistat T305 HT	65...300 ³	45	0,9 ¹	3,0/6,0	–	3,2	2,3	0,6	425 x 250 x 631	1003.0020.01	3
Unistat T305w HT	(15) 65...300	45	0,9 ¹	3,0/6,0	–	10,0	10,0	10,0	425 x 250 x 631	1003.0017.01	3
Unistat T320w HT	(15) 65...300	60	1,5 ²	12,0	–	10,0	10,0	6,0	460 x 554 x 1330	1004.0019.01	35
Unistat T330	65...300	60	2,5 ²	24,0	–	–	–	–	460 x 554 x 1330	1004.0031.01	35
Unistat T330w HT	(15) 65...300	60	2,5 ²	24,0	–	10,0	10,0	6,0	460 x 554 x 1330	1004.0025.01	35
Unistat T340w HT	(15) 65...300	60	2,5 ²	48,0	–	10,0	10,0	6,0	600 x 704 x 1520	1024.0007.01	35
Unistat T402	80...425	45	0,9 ²	3,0/6,0	–	–	–	–	505 x 400 x 765	1038.0003.01	3

¹ Integrated VPC pressure control

² VPC pressure control via optional bypass

³ lowest working temperature 15 K above ambient temperature

w = water-cooled | HT = controlled cooling

► Series TR400

Unistats of the TR400 series impress with a compact and space-saving round design. Thanks to the minimised internal volume short heat-up times can be realised. A direct contact of the hot heat transfer fluid with the atmosphere is avoided protecting the heat transfer fluid. These devices are ideally suited for high-temperature applications such as double-walled reaction vessels, pilot plants and for high-temperature distillation.

HT models are equipped with controlled cooling with stepper motor controlled water cooling.

➔ **Up to +425 °C**
Temperature range

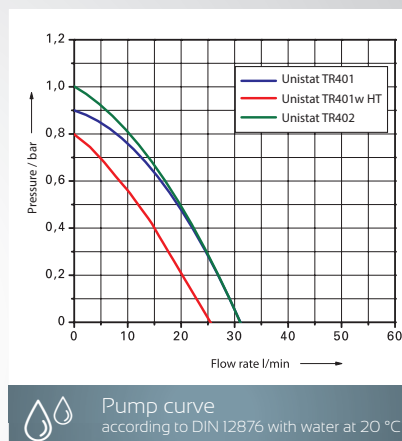
➔ **Up to 10 kW**
Cooling power

➔ **Up to 31 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



➔ Unistat TR401



Model	Temperature range (°C)	Pump max. VPC		Heating power (kW)	Colling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)		400	300	200	100			
Unistat TR401	50...400	31	0,9 ¹	3,0/9,0	–	–	–	–	288x379x890	1028.0007.01	3
Unistat TR401w HT	(15) 50...400	26	0,8 ¹	3,0/9,0	10,0	10,0	10,0	10,0	288x379x890	1028.0018.01	3
Unistat TR402	80...425	31	1,0 ¹	3,0/9,0	–	–	–	–	288x332x870	1028.0006.01	3

¹ Integrated VPC pressure control

w = water-cooled | HT = controlled cooling







Unichillers & Minichillers:
Cooling solutions for the
laboratory and as fresh
water replacement



Environmentally friendly
and economical
cooling in the
laboratory and
industry



HTS heat exchanger
for precise temperature
control of external
applications



minichiller 3

Circulating Chillers Immersion Coolers

-25 °C ... +100 °C

-100 °C ... +50 °C





Minichillers and Unichillers are the solution for environmentally-friendly and economical cooling in the laboratory and industry



Minichillers and Unichillers are reliable and efficient

Minichillers[®] and Unichillers[®]

Huber circulation chillers have modern features, are robust and service-friendly. Perfect to dissipate process heat and to cool laboratory equipment.

Huber circulation chillers are available as air and water-cooled versions and are suited for applications in laboratory and industry with cooling capacities of 0.3 to 50 kW. These chillers offer high efficiencies, stable pressure and flow rates and a constant cooling water temperature.

The use of circulation chillers reduces the water consumption for many applications, thus protecting the environment and reducing operating costs. Huber circulation chillers are therefore a resource-saving solution, with short ROI.

Circulating Chillers Immersion Coolers



Circulation and immersion coolers for working temperatures down to $-100\text{ }^{\circ}\text{C}$



Modern energy management reduces operating costs and consumption



With cooling capacities up to 50 kW suitable for laboratory and industry



Reliably continuous operation at environmental temperatures up to $+40\text{ }^{\circ}\text{C}$



Powerful circulation pumps with flow rates up to 220 l/min







Easy operation with large touch screen or OLED display

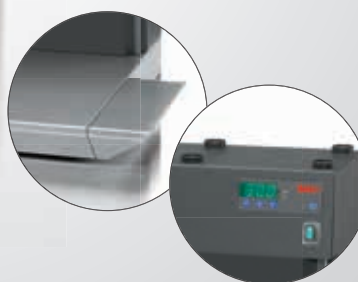


RotaCool®

► Circulating Chiller for rotary evaporator

RotaCool is a space-saving circulation chiller in L-design specifically for rotary evaporators. The additional space requirement on the laboratory bench is nil! If the rotary evaporator is attached, the RotaCool becomes almost invisible. Cooling capacity and circulation are adapted especially to meet the requirements of common rotary evaporators.

-  **Down to -10 °C**
Working temperature
-  **Up to 0,42 kW**
Cooling power
-  **Up to 14 l/min**
Pump capacity
-  **MPC controller**
LED display







Accessories	Cat.No.	G
Additional extension plate (112 mm)	10270	1
Vacuum pump mounting	10275	1

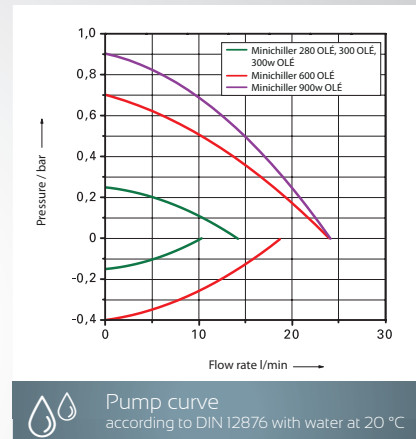
Model	Working temperature range (°C)	Pump Data				Cooling power (kW) at (°C)			Dimensions W x D x H (mm)	Cat.No.	G
		max. pressure (l/min)	max. suction (bar)	15	0	-10					
RotaCool	-10...40	14	0,25	10,5	0,17	0,42	0,35	0,22	225 x 360 x 380	3033.0007.99	3

Minichillers®

► with OLÉ controller, air- and water-cooled models

Minichillers are a cost-effective and environmentally-friendly cooling solution for many laboratory applications and routine tasks in research and industry. Due to the low purchase price, the investment pays off after just a few months. The OLÉ controller combines modern technology and easy operation with practice-orientated features including USB, RS232 and OLED display.

-  **Down to -25 °C**
Working temperature
-  **Up to 0,9 kW**
Cooling power
-  **Up to 24 l/min**
Pump capacity
-  **OLÉ controller**
OLED display



Model	Working temperature range (°C)	Pump Data				Cooling power (kW) at (°C)				Dimensions WxDxH (mm)	Cat.No.	G
		max. pressure (l/min)	max. suction (bar)	15	0	-10	-20					
Minichiller 280 OLÉ	-5...40	14	0,25	10,5	0,17	0,28	0,2	-	-	225 x 360 x 380	3006.0105.98	2
Minichiller 300 OLÉ	-20...40 (80)**	14	0,25	10,5	0,17	0,3	0,2	0,14	0,07	225 x 360 x 380	3006.0089.98	2
Minichiller 300w OLÉ	-20...40 (80)**	14	0,25	10,5	0,17	0,3	0,2	0,14	0,07	225 x 360 x 380	3006.0090.98	2
Minichiller 600 OLÉ	-20...40	24	0,7	18,0	0,4	0,6	0,5	0,35	0,15	280 x 490 x 424	3006.0098.98	2
Minichiller 600w OLÉ	-20...40	24	0,7	18,0	0,4	0,6	0,5	0,35	0,15	280 x 490 x 424	3006.0126.98	2
Minichiller 900w OLÉ	-25...40	24	0,9	-	-	0,9	0,7	0,4	0,2	280 x 490 x 424	3006.0121.98	2

** Permissible return temperature +80 °C

All models use natural refrigerant as standard

Options on request: heater

w = water-cooled

Unichillers® Desktop

► with OLÉ controller, air- and water-cooled models

Unichillers with OLÉ controller offer better efficiencies than cooling water as well as stable pressure and flow rates and a constant operating temperature. They are suitable for a wide range of applications such as removing heat from chemical processes or cooling scientific equipment.

➔ **Down to -20 °C**
Working temperature

➔ **Up to 2,5 kW**
Cooling power

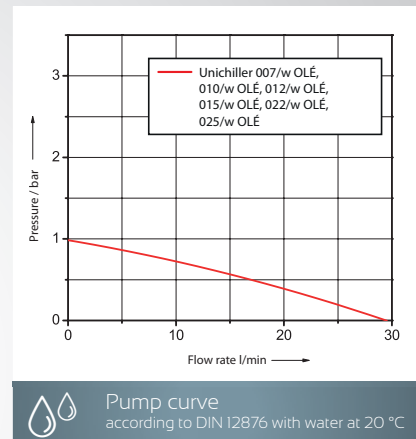
➔ **Up to 29 l/min**
Pump capacity

➔ **OLÉ controller**
OLED display

⊕ Unichiller 007 OLÉ



⊕ Unichiller 022w OLÉ



Model	Working temperature range (°C)	Pump max.		Cooling power (kW)			Dimensions W x D x H (mm)	Cat.No.	G
		max. pressure (l/min)	(bar)	15	0	-10			
Unichiller 007 OLÉ	-20...40	29	1,0	0,7	0,55	0,4	350x496x622	3012.0120.98	3
Unichiller 007w OLÉ*	-20...40	29	1,0	0,7	0,55	0,4	350x496x622	3012.0142.98	3
Unichiller 010 OLÉ	-20...40	29	1,0	1,0	0,8	0,5	350x496x622	3012.0124.98	3
Unichiller 010w OLÉ*	-20...40	29	1,0	1,0	0,8	0,5	350x496x622	3012.0129.98	3
Unichiller 012 OLÉ	-20...40	29	1,0	1,2	1,0	0,7	420x487x579	3009.0090.98	3
Unichiller 012w OLÉ	-20...40	29	1,0	1,2	1,0	0,7	350x496x622	3012.0133.98	3
Unichiller 015 OLÉ	-20...40	29	1,0	1,5	1,0	0,7	420x487x579	3009.0094.98	3
Unichiller 015w OLÉ	-20...40	29	1,0	1,5	1,0	0,7	350x496x622	3012.0137.98	3
Unichiller 022 OLÉ	-10...40	29	1,0	2,2	1,6	1,0	460x590x743	3010.0050.98	3
Unichiller 022w OLÉ	-10...40	29	1,0	2,2	1,6	1,0	420x487x579	3009.0098.98	3
Unichiller 025 OLÉ	-10...40	29	1,0	2,5	2,0	1,2	460x590x743	3010.0054.98	3
Unichiller 025w OLÉ	-10...40	29	1,0	2,5	2,0	1,2	420x487x579	3009.0102.98	3

* Models use natural refrigerant as standard Options on request: heating, natural refrigerant

w = water-cooled

▶ with Pilot ONE® controller, air- and water-cooled models

Unichillers with Pilot ONE controller are suited for demanding cooling applications. The devices have extensive technical features with numerous functions.

➔ **Down to -20 °C**
Working temperature

➔ **Up to 2,5 kW**
Cooling power

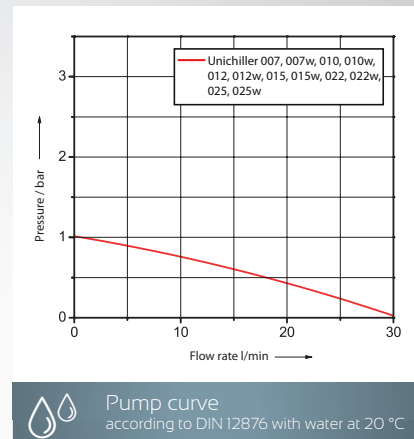
➔ **Up to 29 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller

➔ Unichiller 012w



➔ Unichiller 015-H



Model	Working temperature range (°C)	Pump max.		Cooling power (kW)			Dimensions W x D x H (mm)	Cat.No.	G
		max. pressure (l/min)	(bar)	15	0	-10			
Unichiller 007	-20...40	29	1,0	0,7	0,55	0,4	350x496x622	3012.0189.01	3
Unichiller 007w	-20...40	29	1,0	0,7	0,55	0,4	350x496x622	3012.0215.01	3
Unichiller 010	-20...40	29	1,0	1,0	0,8	0,5	350x496x622	3012.0191.01	3
Unichiller 010w	-20...40	29	1,0	1,0	0,8	0,5	350x496x622	3012.0219.01	3
Unichiller 012	-20...40	29	1,0	1,2	1,0	0,7	420x487x579	3009.0145.01	3
Unichiller 012w	-20...40	29	1,0	1,2	1,0	0,7	350x496x622	3012.0193.01	3
Unichiller 015	-20...40	29	1,0	1,5	1,0	0,7	420x487x579	3009.0147.01	3
Unichiller 015w	-20...40	29	1,0	1,5	1,0	0,7	350x496x622	3012.0195.01	3
Unichiller 022	-10...40	29	1,0	2,2	1,6	1,0	460x590x743	3010.0081.01	3
Unichiller 022w	-10...40	29	1,0	2,2	1,6	1,0	420x487x579	3009.0149.01	3
Unichiller 025	-10...40	29	1,0	2,5	2,0	1,2	460x590x743	3010.0083.01	3
Unichiller 025w	-10...40	29	1,0	2,5	2,0	1,2	420x487x579	3009.0151.01	3

Options on request: heating, natural refrigerant, externally open applications

w = water-cooled

Unichillers® "P" Desktop

▶ with OLÉ controller and high pressure pumps

Unichiller "P" are equipped with high pressure pumps and are suited for applications with high pressure drops. The devices with OLÉ controller are a basic equipment with easy operation.

➔ **Down to -20 °C**
Working temperature

➔ **Up to 2,5 kW**
Cooling power

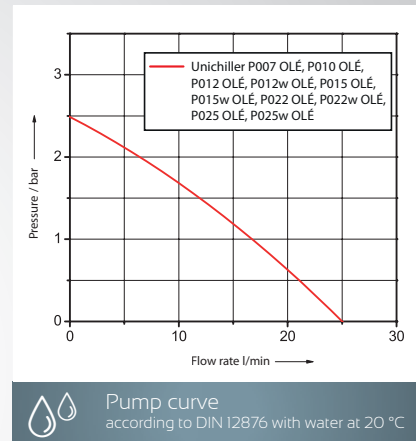
➔ **Up to 25 l/min**
Pump capacity

➔ **OLÉ controller**
OLED display

➔ Unichiller P007 OLÉ



➔ Unichiller P025w OLÉ



Model	Working temperature range (°C)	Pump max. max. pressure		Cooling power (kW) at (°C)			Dimensions WxDxH (mm)	Cat.No.	G
		(l/min)	(bar)	15	0	-10			
Unichiller P007 OLÉ	-20...40	25	2,5	0,7	0,55	0,4	350x496x622	3012.0161.98	3
Unichiller P010 OLÉ	-20...40	25	2,5	1,0	0,8	0,5	350x496x622	3012.0163.98	3
Unichiller P012 OLÉ	-20...40	25	2,5	1,2	1,0	0,7	420x487x579	3009.0115.98	3
Unichiller P012w OLÉ	-20...40	25	2,5	1,2	1,0	0,7	350x496x622	3012.0165.98	3
Unichiller P015 OLÉ	-20...40	25	2,5	1,5	1,0	0,7	420x487x579	3009.0117.98	3
Unichiller P015w OLÉ	-20...40	25	2,5	1,5	1,0	0,7	350x496x622	3012.0167.98	3
Unichiller P022 OLÉ	-10...40	25	2,5	2,2	1,6	1,0	460x590x743	3010.0064.98	3
Unichiller P022w OLÉ	-10...40	25	2,5	2,2	1,6	1,0	420x487x579	3009.0119.98	3
Unichiller P025 OLÉ	-10...40	25	2,5	2,5	2,0	1,2	460x590x743	3010.0066.98	3
Unichiller P025w OLÉ	-10...40	25	2,5	2,5	2,0	1,2	420x487x579	3009.0121.98	3

Options on request: heating, natural refrigerant, externally open applications

w = water-cooled

▶ with Pilot ONE® controller and high pressure pumps

Unichiller "P" with high pressure pumps and Pilot ONE controller for demanding cooling applications. The devices have extensive technical features with numerous professional functions.

➔ **Down to -20 °C**
Working temperature

➔ **Up to 2,5 kW**
Cooling power

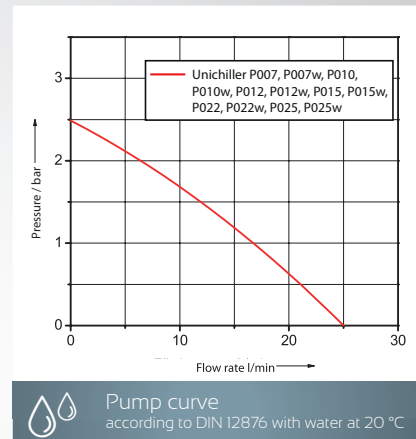
➔ **Up to 25 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller

➔ Unichiller P012w



➔ Unichiller P015-H



Model	Working temperature range (°C)	Pump max. max. pressure		Cooling power (kW) at (°C)			Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)	15	0	-10			
Unichiller P007	-20...40	25	2,5	0,7	0,55	0,4	350x496x622	3012.0169.01	3
Unichiller P007w	-20...40	25	2,5	0,7	0,55	0,4	350x496x622	3012.0217.01	3
Unichiller P010	-20...40	25	2,5	1,0	0,8	0,5	350x496x622	3012.0171.01	3
Unichiller P010w	-20...40	25	2,5	1,0	0,8	0,5	350x496x622	3012.0220.01	3
Unichiller P012	-20...40	25	2,5	1,2	1,0	0,7	420 x 487 x 579	3009.0123.01	3
Unichiller P012w	-20...40	25	2,5	1,2	1,0	0,7	350 x 496 x 622	3012.0173.01	3
Unichiller P015	-20...40	25	2,5	1,5	1,0	0,7	420 x 487 x 579	3009.0125.01	3
Unichiller P015w	-20...40	25	2,5	1,5	1,0	0,7	350 x 496 x 622	3012.0175.01	3
Unichiller P022	-10...40	25	2,5	2,2	1,6	1,0	460 x 590 x 743	3010.0068.01	3
Unichiller P022w	-10...40	25	2,5	2,2	1,6	1,0	420 x 487 x 579	3009.0127.01	3
Unichiller P025	-10...40	25	2,5	2,5	2,0	1,2	460 x 590 x 743	3010.0070.01	3
Unichiller P025w	-10...40	25	2,5	2,5	2,0	1,2	420 x 487 x 579	3009.0129.01	3

Options on request: heating, natural refrigerant, externally open applications

w = water-cooled

Unichillers® Classic

▶ with Pilot ONE® controller , air- and water-cooled models

The completely redesigned Unichiller range with cooling capacities up to 20 kW represent powerful solutions at budget-friendly prices. The chillers are ideally suited for cooling applications in laboratory and industry. All models are equipped with the controller Pilot ONE and are characterised by their robust stainless steel housings, rollers, removable venting grid and very quiet operation.

➔ **Down to -20 °C**
Working temperature

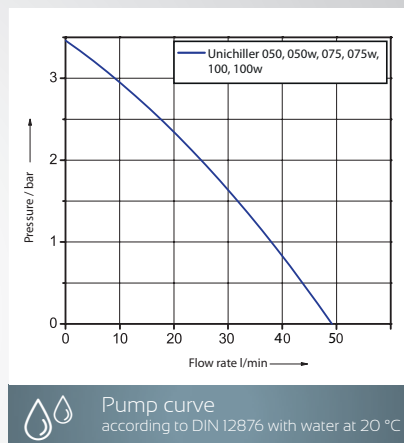
➔ **Up to 10 kW**
Cooling power

➔ **Up to 48 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



➔ Unichiller 050



Model	Working temperature range (°C)	Pump max. max. pressure		Cooling power (kW) at (°C)			Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)	20	0	-10			
Unichiller 050	-20...40	48	3,4	5,0	5,0	3,0	740x1160x1050	3038.0001.01	35
Unichiller 050w	-20...40	48	3,4	5,0	4,2	3,0	740x1160x1050	3040.0001.01	35
Unichiller 075	-20...40	48	3,4	7,5	6,1	4,0	740x1160x1050	3038.0018.01	35
Unichiller 075w	-20...40	48	3,4	7,5	6,1	4,0	740x1160x1050	3040.0009.01	35
Unichiller 100	-20...40	48	3,4	10,0	8,6	6,0	740x1160x1050	3038.0035.01	4
Unichiller 100w	-20...40	48	3,4	10,0	8,6	6,0	740x1160x1050	3040.0017.01	4

Options on request: heating, outdoor setup

w = water-cooled

Unichillers® "P" Classic

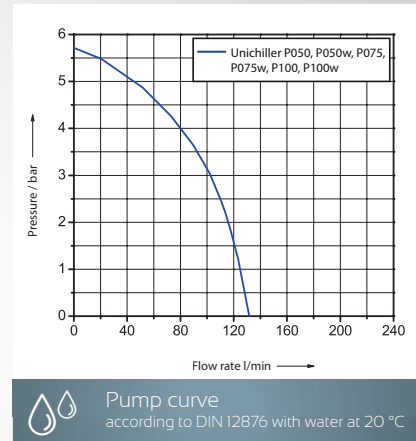
▶ with Pilot ONE® controller and high pressure pumps

Unichiller "P" are equipped with higher pressure circulation pumps and are suited for applications with high pressure drops.

-  **Down to -20 °C**
Working temperature
-  **Up to 10 kW**
Cooling power
-  **Up to 130 l/min**
Pump capacity
-  **Pilot ONE**
Touch screen display



➔ Unichiller P050



Model	Working temperature range (°C)	Pump max. max. pressure		Cooling power (kW) at (°C)			Dimensions W x D x H (mm)	Cat.No.	G
		(l/min)	(bar)	20	0	-10			
Unichiller P050	-20...40	130	5,7	5,0	3,4	2,3	740 x 1160 x 1050	3038.0004.01	35
Unichiller P050w	-20...40	130	5,7	5,0	3,4	2,3	740 x 1160 x 1050	3040.0003.01	35
Unichiller P075	-20...40	130	5,7	7,5	5,3	3,3	740 x 1160 x 1050	3038.0021.01	35
Unichiller P075w	-20...40	130	5,7	7,5	5,3	3,3	740 x 1160 x 1050	3040.0011.01	35
Unichiller P100	-20...40	130	5,7	10,0	7,5	4,7	740 x 1160 x 1050	3038.0037.01	4
Unichiller P100w	-20...40	130	5,7	10,0	7,8	5,3	740 x 1160 x 1050	3040.0019.01	4

Options on request: heating, outdoor setup

w = water-cooled

Unichillers[®] Tower

► with Pilot ONE[®] controller, tower design, air-cooled

Powerful Unichillers in compact tower design with small space requirements and air-cooled refrigeration machine. The devices are equipped with the Pilot ONE controller with numerous professional functions. The circulation chillers are turned into powerful process thermostats with the heating options. The option "freeze protection" permits operation with water.

➔ **Down to -20 °C**
Working temperature

➔ **Up to 35 kW**
Cooling power

➔ **Up to 210 l/min**
Pump capacity

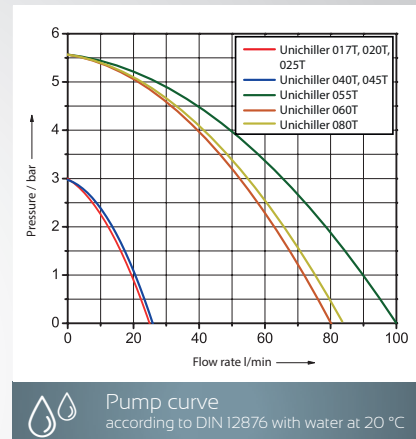
➔ **Pilot ONE**
Touch screen controller



➔ Unichiller 080T



➔ Unichiller 045T



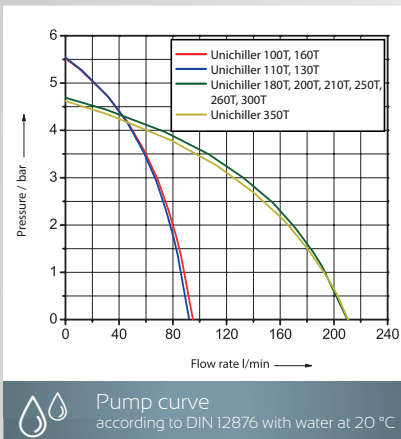
Model	Working temperature range (°C)	Pump max. Type	Pump max.		Cooling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No.	G
			(l/min)	(bar)	15	0	-10	-20			
Unichiller 017T	-10...40	B	25	3,0	1,7	0,9	0,4	–	450x510x1230	3013.0001.01	3
Unichiller 020T	-20...40	B	25	3,0	2,0	2,0	1,5	0,8	450x510x1230	3013.0058.01	3
Unichiller 025T	-10...40	B	25	3,0	2,5	1,2	0,6	–	450x510x1230	3013.0003.01	3
Unichiller 040T	-10...40	B	26	3,0	4,0	2,5	1,1	–	500x552x1451	3014.0052.01	3
Unichiller 045T	-20...40	B	26	3,0	4,5	4,0	2,7	1,4	500x552x1451	3014.0056.01	3
Unichiller 055T	-10...40	C3	100	5,6	5,5	2,3	0,8	–	600x692x1613	3015.0061.01	35
Unichiller 060T	-20...40	C3	80	5,6	6,0	5,0	2,8	1,4	600x692x1613	3015.0065.01	35
Unichiller 080T	-10...40	C3	84	5,6	8,0	4,8	2,5	–	600x790x1614	3016.0024.01	35

Options on request: heating, natural refrigerant, externally open applications, winter option, outdoor setup

➤ Unichiller 017T



➤ Unichiller 100T



Model	Working temperature range (°C)	Pump max. Type	Pump max.		Cooling power (kW) at (°C)				Dimensions WxDxH (mm)	Cat.No.	G
			(l/min)	(bar)	15	0	-10	-20			
Unichiller 100T	-20...40	C3	96	5,6	10,0	10,0	6,5	3,0	600x790x1614	3017.0029.01	4
Unichiller 110T	-10...40	C3	90	5,6	11,0	6,0	2,7	-	600x790x1614	3017.0033.01	4
Unichiller 130T*	-10...40	C3	90	5,6	13,0	7,0	4,5	-	905x1582x1837	3018.0016.01	4
Unichiller 160T*	-10...40	C3	96	5,6	16,0	8,8	4,0	-	905x1582x1837	3018.0013.01	4
Unichiller 180T*	-20...40	D3	210	4,7	18,0	18,0	11,0	6,0	905x1582x1837	3019.0035.01	4
Unichiller 200T*	-20...40	D3	210	4,7	20,0	10,0	5,0	3,0	905x1582x1837	3019.0037.01	4
Unichiller 210T*	-20...40	D3	210	4,7	21,0	21,0	13,5	7,5	904x2172x1870	3020.0029.01	4
Unichiller 250T*	-20...40	D3	210	4,7	25,0	18,0	11,0	6,0	904x2172x1870	3020.0031.01	5
Unichiller 260T*	-20...40	D3	210	4,7	26,0	26,0	16,0	10,0	904x2172x1870	3020.0033.01	5
Unichiller 300T*	-20...40	D3	210	4,7	30,0	18,0	11,0	6,0	904x2172x1870	3020.0026.01	5
Unichiller 350T*	-20...40	D3	210	4,6	35,0	23,0	14,0	8,0	904x2172x1870	3021.0006.01	5

Options on request: heating, natural refrigerant, externally open applications, winter option, outdoor setup
 * without rollers

Unichillers[®] Tower

► with Pilot ONE[®] controller, tower design, water-cooled

Powerful Unichillers in compact tower design with small space requirements and water-cooled refrigeration machine. These devices are equipped with the Pilot ONE controller with numerous professional functions. The circulation chillers are turned into powerful process thermostats with the heating options. The option “freeze protection” permits operation with water.

➔ **Down to -20 °C**
Working temperature

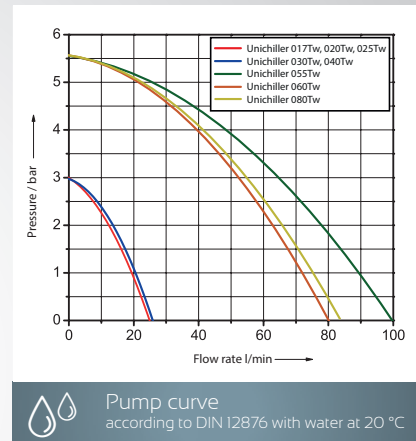
➔ **Up to 50 kW**
Cooling power

➔ **Up to 220 l/min**
Pump capacity

➔ **Pilot ONE**
Touch screen controller



➔ Unichiller 060 Tw



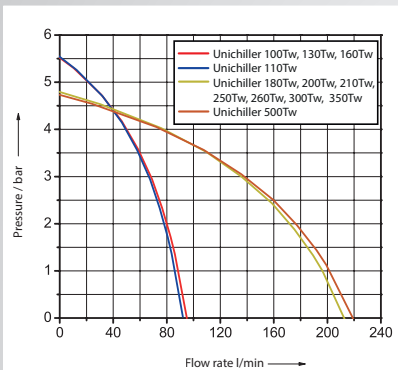
➔ Unichiller 020 Tw

Model	Working temperature range (°C)	Pump max. Type	Pump max.		Cooling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No.	G
			(l/min)	(bar)	15	0	-10	-20			
Unichiller 017Tw	-10...40	B	25	3,0	1,7	0,9	0,4	–	400x440x1230	3024.0021.01	3
Unichiller 020Tw	-20...40	B	25	3,0	2,0	2,0	1,5	0,8	400x440x1230	3024.0053.01	3
Unichiller 025Tw	-10...40	B	25	3,0	2,5	1,2	0,6	–	400x440x1230	3024.0031.01	3
Unichiller 030Tw	-20...40	B	26	3,0	3,0	2,75	2,0	1,0	400x440x1230	3025.0056.01	3
Unichiller 040Tw	-10...40	B	26	3,0	4,0	2,5	1,5	–	400x440x1230	3025.0059.01	3
Unichiller 055Tw	-10...40	C3	57	5,6	5,5	3,0	1,5	–	500x552x1261	3026.0110.01	35
Unichiller 060Tw	-20...40	C3	80	5,6	6,0	5,0	3,1	1,7	500x552x1261	3026.0106.01	35
Unichiller 080Tw	-10...40	C3	84	5,6	7,0	4,2	2,5	–	500x552x1261	3026.0091.01	35

Options on request: heating, natural refrigerant, externally open applications, winter option, outdoor setup

w = water-cooled

➔ Unichiller 110 Tw



 Pump curve according to DIN 12876 with water at 20 °C



➔ Unichiller 250 Tw

Model	Working temperature range (°C)	Pump max. Type	Pump max.		Cooling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No.	G
			(l/min)	(bar)	15	0	-10	-20			
Unichiller 100Tw	-20...40	C3	96	5,6	10,0	10,0	6,5	3,0	600x600x1450	3027.0064.01	4
Unichiller 110Tw	-10...40	C3	90	5,6	11,0	6,0	2,7	–	600x600x1450	3027.0067.01	4
Unichiller 130Tw	-10...40	C3	96	5,6	13,0	7,0	4,5	–	600x600x1450	3027.0051.01	4
Unichiller 160Tw	-10...40	C3	96	5,6	16,0	9,5	5,5	–	600x600x1450	3027.0071.01	4
Unichiller 180Tw	-20...40	D3	210	4,7	18,0	18,0	13,0	6,0	760x800x1615	3028.0111.01	4
Unichiller 200Tw	-20...40	D3	210	4,7	20,0	11,0	5,0	3,0	760x800x1615	3028.0112.01	4
Unichiller 210Tw	-20...40	D3	210	4,7	21,0	21,0	15,5	9,5	760x800x1615	3028.0114.01	4
Unichiller 250Tw	-20...40	D3	210	4,7	25,0	18,0	11,0	6,0	760x800x1615	3028.0116.01	5
Unichiller 260Tw	-20...40	D3	210	4,7	26,0	26,0	18,0	12,0	760x800x1615	3028.0118.01	5
Unichiller 300Tw	-20...40	D3	210	4,7	30,0	18,0	13,0	8,0	760x800x1615	3029.0030.01	5
Unichiller 350Tw	-20...40	D3	210	4,7	35,0	25,0	16,0	10,0	760x800x1615	3029.0032.01	5
Unichiller 500Tw*	-10...40	D3	220	4,7	50,0	30,0	19,0	–	1000x1103x1634	3030.0001.01	5

Options on request: heating, natural refrigerant, externally open applications, winter option, outdoor setup
* without rollers

w = water-cooled

► Flow-through chillers

Flow-through chillers are ideally suited for counter-cooling of immersion and heating thermostats. In case of external temperature control, the flow-through chiller is installed in the return line of the thermostat.

➔ **Down to -30 °C**
Working temperature

➔ **Up to 0,6 kW**
Cooling power



Model	Working temperature range (°C)	Cooling power (kW) at (°C)			Dimensions WxDxH (mm)	Cat.No.	G
		15	0	-20			
DC30	-30...50	0,2	0,15	0,07	190x250x360	3000.0001.99	2
DC31	-30...50	0,4	0,35	0,10	250x310x415	3001.0001.99	2
DC32	-30...50	0,6	0,47	0,12	280x340x465	3002.0001.99	2

► Immersion coolers

Immersion coolers are a flexible solution for the fast cooling of liquids and for counter-cooling of heating circulator. The devices are available without control for continuous cooling and as variant with type addition "E" with temperature control (accuracy ± 0.5 K), Pt100 sensor connection (sensor in the scope of delivery) and LED temperature display with setpoint input. All models either with spiral or flexible immersion cooling probe made of stainless steel. Special evaporators for thermal analysis devices from Mettler, Perkin Elmer, Gerstel etc. available on request.

➔ **Down to -100 °C**
Working temperature

➔ **Up to 0,3 kW**
Cooling power

➔ **Special evaporators**
e.g. for thermal analysis



Model	Working temperature range (°C)	Cooling power (kW) at (°C)				Dimensions W x D x H (mm)	Cat.No. "standard"	Cat.No. with flexible cooling probe	G
		0	-20	-30	-90				
TC45	-45...100	0,24	0,18	0,1	–	190x295x360	3003.0001.99	3003.0003.99	2
TC45E	-45...100	0,24	0,18	0,1	–	190x295x360	3003.0002.99	3003.0004.99	2
TC50	-50...50	0,3	0,26	0,2	–	260x330x415	3004.0001.99	3004.0003.99	2
TC50E	-50...50	0,3	0,26	0,2	–	260x330x415	3004.0002.99	3004.0004.99	2
TC100	-100...40	0,16	0,15	0,14	0,07	295x500x570	3005.0043.99	3005.0045.99	2
TC100E	-100...40	0,16	0,15	0,14	0,07	295x500x570	3005.0044.99	3005.0046.99	2

Options on request: various other special cooling probes available

Hotbox

► Heating circulator

Circulation heaters suited for temperature control of externally open systems in compact design and for installation in systems. They are equipped with stainless steel circulation pump and adjustable overtemperature protection according to DIN 12876.

-  **Up to +250 °C**
Working temperature
-  **Up to 12 kW**
Heating power
-  **Up to 100 l/min**
Pump capacity
-  **Pilot ONE**
Touch screen controller

➔ HB120



➔ Application example



Advantages:

- Efficient circulation pump
- Digital level display
- Pt100 external sensor connection
- Compact design, suited for installation in systems

Model	Working temperature range (°C)	connection	Pump flow rate (l/min)	pressure max. (bar)	Heating power (kW)	Dimensions WxDxH (mm)	Cat.No.	G
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

HTS

► Heat exchanger systems

Heat exchanger systems with circulation pump for connection to cooling water on the primary side. The devices provide a cooling circuit with stable pressure/flow and adjustable operating temperature. The cooling capacity is generated using a plate heat exchanger via the cooling water. Since there is no active cooling machine, the devices operate in a quiet and energy-saving manner and are a cost-effective alternative to conventional chillers e.g. for the temperature control of Peltier elements, bioreactors, etc.



The **model HTS 1** contains the heat exchanger system, however it does **not have any temperature control**. The device is therefore suited for applications with low requirements for control accuracy.



Up to +3 °C
Operating temperature



Up to 15 kW
Cooling power at 20 °C



Up to 33 l/min
Pump capacity



Pilot ONE
Touch screen controller

Advantages:

Models HTS 3-15:

- Efficient circulation pump
- Temperature stability $\pm 0,1$ K
- RS232 interface
- Pt100 external sensor connection
- Low cooling water usage
- Application protection with cooling stage separation

➔ HTS P55



Model	Operating temperature range (°C)	Pump flow rate (l/min)	Pump pressure max. (bar)	Cooling power ³ at 20 °C (kW)	Heating power OPTIONAL (max. kW) ⁴	Dimensions W x D x H (mm)	Cat.No.	G
HTS 1 ¹	(5)...(80) ²	8	0,2	0,6	–	280 x 398 x 387	3011.0008.99	2
HTS 3	(3)...(95) ²	33	0,7	3,0	2,0	280 x 491 x 414	3011.0001.01	3
HTS 5	(3)...(95) ²	25	2,5	5,0	2,0	280 x 491 x 414	3011.0006.01	3
HTS 6	(3)...(95) ²	25	2,5	6,0	10,0	400 x 491 x 529	3011.0002.01	3
HTS 15	(3)...(95) ²	25	2,5	15,0	10,0	400 x 491 x 529	3011.0024.01	4

¹ Air-cooled ² auxiliary cooling/heating device required (see glossary "Working Temperature Range")

³ Cooling power data measured with cooling water-inlet temperature of +10 °C and 2 bar

⁴ optionally available on request with heating and OT-protection



Immersion circulators
and baths for the research
laboratory



Refrigeration
circulators
down to $-40\text{ }^{\circ}\text{C}$



Refrigeration
circulators
down to $-95\text{ }^{\circ}\text{C}$



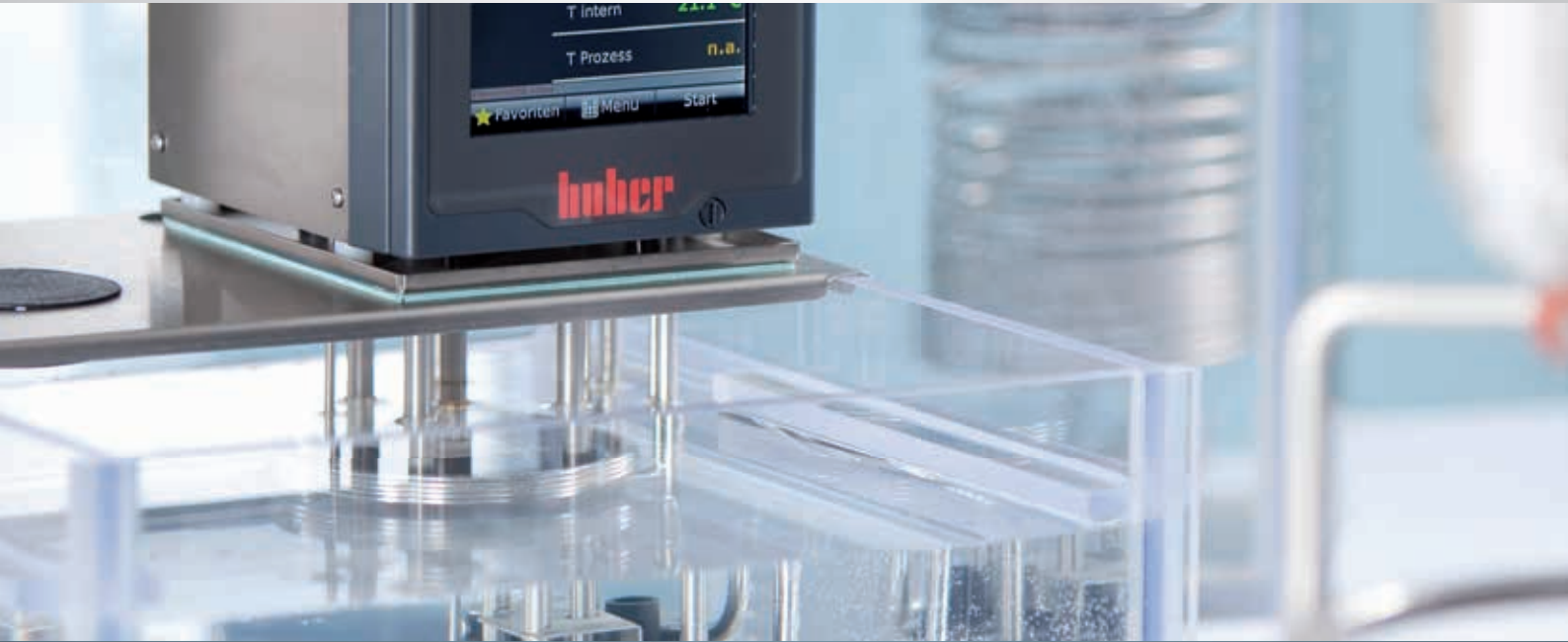
Baths and Circulators

-90 °C ... +300 °C





KISS and CC circulators are ideally suited for quality controls, material tests, sample preparation, analytics, medical technology etc.



Modern circulators for many applications
in laboratory and industry

KISS[®], CC[®] and Ministats[®]

**Huber bath circulators are modern classics.
Robust, convincing technology and easy to operate.**

The circulators are split into two product lines: the Compatible Control models and the simpler KISS 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 Ministats, the smallest cooling and heating circulators in the world, are the first choice for operation in fume-hoods or integrating into systems.

Bath Circulators



Heating and cooling models for working temperatures from -90 to +300 °C



Different device classes with heating and cooling capacities up to 7 kW



Suitable for internal and external temperature control applications



Warning and safety functions according to DIN 12876



Extensive basic functions and function extension by E-grade



Environmentally compatible with natural refrigerants



Immersion Circulators

► the universal ones with screw terminal

Immersion circulators with an adjustable screw fixing for easy installation on any bath. All models are equipped with a powerful pressure/suction pump and comply with protection class III (FL) for flammable liquids.

➔ **Up to +200 °C**
Temperature Range

➔ **Up to 2,0 kW**
Heating power

➔ **Up to 27 l/min**
Pump capacity



➔ CC-E



➔ KISS E

KISS circulators are available in three colour variants:
Grey (Standard)
Red (Cat.No. 61998)
Blue (Cat.No. 61999)

Model	Temperature range (°C)	Temperature stability (K)	Heating power (kW)	Pump data				Safety class	Dimensions W x D x H / ID ¹ (mm)	Cat.No.	G
				max. pressure (l/min)	max. pressure (bar)	max. Sog (l/min)	max. Sog (bar)				
CC-E	(-30)* 25...200	0,02	2,0	27	0,7	22	0,4	FL, III	132x159x315/150	2000.0023.01	1
KISS E	(-30)* 25...200	0,05	2,0	14	0,25	10,5	0,17	FL, III	132x163x312/150	2035.0012.98	1
CC-E xd	(-30)* 25...200	0,02	2,0	22	0,4	17	0,25	FL, III	132x159x360/195	2000.0034.01	1

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

Bridge Circulators

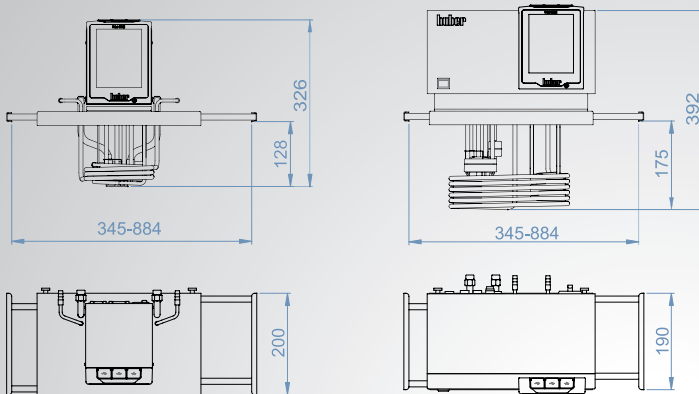
► for any bath

Bridge circulators can be used for the temperature control of any bath. External systems can also be controlled using the speed-controlled pressure suction pump with VPC technology. Models with greater heating capacity are suited for controlling larger bath volumes. The telescopic arms can be extended up to a maximum of 884 millimeters.

► **Up to +300 °C**
Temperature range

► **Up to 4,0 kW**
Heating power

► **Up to 27 l/min**
Pump capacity



► **VPC**
Variable Pressure Control



Model	Temperature range (°C)	Temperature stability (K)	Heating power (kW)	Pump data				Cat.No.	G
				max. pressure (l/min)	max. pressure (bar)	max. suction (l/min)	max. suction (bar)		
CC-200BX	(-20)* 28...200	0,02	2,0	27	0,7	22	0,4	2000.0003.01	1
CC-300BX	(-20)* 28...300	0,02	3,0/4,0	25	0,7	18,5	0,4	2007.0002.01	1

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

Heating Circulators

► with polycarbonate bath

Heating bath circulators with transparent baths made from polycarbonate. The circulators are equipped with an overtemperature and low level protection in accordance with protection class III (FL). The circulating pump ensures optimal mixing and temperature uniformity and permits the temperature control of external applications using pump adapters (accessories).

➔ **Up to +100 °C**
Temperature range

➔ **Up to 2,0 kW**
Heating power

➔ **Up to 18 Liter**
Bath volume



Model	Temperature range (°C)	Heating power (kW)	opening WxD (mm)	Bath depth (mm)	volume (ltr)	Pump data				Dimensions WxDxH (mm)	Cat.No.	G
						max. pressure (l/min)	max. pressure (bar)	max. suction (l/min)	max. suction (bar)			
CC-106A	(15)* 25...100	2,0	130x110	150	6	27	0,7	22	0,4	147x307x330	2001.0001.01	1
KISS 106A	(15)* 25...100	2,0	130x110	150	6	14	0,25	10,5	0,17	147x307x330	2037.0043.98	1
CC-108A	(15)* 25...100	2,0	130x210	150	8	27	0,7	22	0,4	147x407x330	2001.0002.01	1
KISS 108A	(15)* 25...100	2,0	130x210	150	8	14	0,25	10,5	0,17	147x407x330	2037.0045.98	1
CC-110A	(15)* 25...100	2,0	130x310	150	10	27	0,7	22	0,4	147x507x330	2001.0003.01	1
KISS 110A	(15)* 25...100	2,0	130x310	150	10	14	0,25	10,5	0,17	147x507x330	2037.0047.98	1
CC-112A	(15)* 25...100	2,0	275x161	150	12	27	0,7	22	0,4	333x360x335	2001.0004.01	1
KISS 112A	(15)* 25...100	2,0	275x161	150	12	14	0,25	10,5	0,17	333x360x335	2037.0049.98	1
CC-118A	(15)* 25...100	2,0	275x321	150	18	27	0,7	22	0,4	333x520x335	2001.0005.01	1
KISS 118A	(15)* 25...100	2,0	275x321	150	18	14	0,25	10,5	0,17	333x520x335	2037.0051.98	1

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

Temperature stability: CC $\pm 0,02$ K ; KISS $\pm 0,05$ K

▶ with stainless steel bath

Heating bath circulators with insulated stainless steel baths for temperatures up to +200 °C. The devices can be used for externally closed and externally open (with optional level control) temperature control tasks using a pump adapter (accessories). Models with Pilot ONE have a speed-controlled pressure/suction pump.

➔ **Up to +200 °C**
Temperature range

➔ **Up to 2,0 kW**
Heating power

➔ **Up to 25 Liter**
Bath volume



Model	Temperature range (°C)	Heating power (kW)	opening WxD (mm)	Bath depth (mm)	volume (ltr)	Pump data				Dimensions WxDxH (mm)	Cat.No.	G
						max. pressure (l/min)	(bar)	max. suction (l/min)	(bar)			
CC-208B	(-30)* 25...200	2,0	230x127	150	8,5	27	0,7	22	0,4	290x350x375	2002.0001.01	1
KISS 208B	(-30)* 25...200	2,0	230x127	150	8,5	14	0,25	10,5	0,17	290x350x375	2038.0053.98	1
CC-212B	(-30)* 25...200	2,0	290x152	150	12	27	0,7	22	0,4	350x375x375	2002.0002.01	1
KISS 212B	(-30)* 25...200	2,0	290x152	150	12	14	0,25	10,5	0,17	350x375x375	2038.0052.98	1
CC-215B	(-30)* 25...200	2,0	290x152	200	15	27	0,7	22	0,4	350x375x425	2002.0003.01	1
KISS 215B	(-30)* 25...200	2,0	290x152	200	15	14	0,25	10,5	0,17	350x375x425	2038.0051.98	1
CC-220B	(-30)* 25...200	2,0	290x329	150	20	27	0,7	22	0,4	350x555x375	2002.0004.01	1
KISS 220B	(-30)* 25...200	2,0	290x329	150	20	14	0,25	10,5	0,17	350x555x375	2038.0050.98	1
CC-225B	(-30)* 25...200	2,0	290x329	200	25	27	0,7	22	0,4	350x555x425	2002.0005.01	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 (see glossary "Working Temperature Range")

Temperature stability: CC ±0,02 K; KISS ±0,05 K

Heating Circulators

► with filling port, for external temperature control

Heating circulators for the temperature control of externally connected applications. The devices are equipped with baths made of stainless steel or transparent polycarbonate and have rear pump connections and a stainless steel bath cover with filling port as standard. All models have an overtemperature and low level protection of protection class III (FL) according to DIN 12876 for use with flammable liquids.

The models 202C are equipped with integrated cooling coil as standard, for models 104A it is available as an option.

➤ **Up to +200 °C**
Temperature range

➤ **Up to 2,0 kW**
Heating power

➤ **Up to 27 l/min**
Pump capacity

➤ KISS 104A



➤ CC-202C

Model	Temperature range (°C)	Heating power (kW)	opening opening WxD (mm)	Bath depth (mm)	volume (ltr)	Pump data				Dimensions WxDxH (mm)	Cat.No.	G
						max. pressure (l/min)	max. suction (bar)	max. pressure (bar)	max. suction (l/min)			
CC-104A	(15)* 25...100	2,0	Ø25	150	4	27	0,7	22	0,4	147x235x330	2001.0016.01	1
KISS 104A	(15)* 25...100	2,0	Ø25	150	4	14	0,25	10,5	0,17	147x235x330	2037.0040.98	1
CC-202C	(-30)* 45...200	2,0	Ø25	150	2	27	0,7	22	0,4	178x260x355	2003.0001.01	1
KISS 202C	(-30)* 45...200	2,0	Ø25	150	2	14	0,25	10,5	0,17	178x260x355	2039.0012.98	1

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

Temperature stability: CC ±0,02 K ; KISS ±0,05 K

Heating Bath Circulators

▶ with open bath, for internal and external temperature control

Heating circulators for the temperature control of externally connected applications. Furthermore it is possible to thermoregulate any objects directly in the circulator bath. The devices are equipped with durable baths made from high-grade stainless steel and have pump connections at the rear as standard. All models have overtemperature and low level protection to protection class III (FL) according to DIN 12876 for use with flammable liquids.

➔ **Up to +300 °C**
Temperature range

➔ **Up to 4,0 kW**
Heating power

➔ **Up to 27 l/min**
Pump capacity



Model	Temperature range (°C)	Bath volume (ltr)	Bath depth (mm)	Heating power (kW)	Pump data				Dimensions WxDxH (mm)	Cat.No.	G
					max. pressure (l/min)	(bar)	max. suction (l/min)	(bar)			
CC-205B	(-30)* 45...200	5,0	150	2,0	27	0,7	22	0,4	178x337x355	2004.0001.01	1
KISS 205B	(-30)* 45...200	5,0	150	2,0	14	0,25	10,5	0,17	178x337x355	2040.0012.98	1
CC-304B	(-20)* 28...300	5,0	155	3,0	25	0,7	18,5	0,4	210x335x392	2005.0001.01	1
CC-308B	(-20)* 28...300	8,5	155	3,0	25	0,7	18,5	0,4	242x404x392	2006.0001.01	1
CC-315B	(-20)* 28...300	15	200	3,0/4,0	25	0,7	18,5	0,4	335x382x433	2007.0001.01	1

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

Temperature stability: CC $\pm 0,02$ K; KISS $\pm 0,05$ K

Ministats®

► Our smallest cooling circulators

Ministats are the smallest cooling circulators in the world and permit operation in the smallest of spaces, for example in a fume hood or within technical systems. The devices have a wide range of features and are ideally suited for the temperature control of photometers, refractometers, viscometers, distillation apparatus, reaction vessels and Miniplant facilities. The application focus is on external applications - the bath opening, however, also permits the thermoregulation of smaller objects directly in the circulator bath.

➡ **Down to -45 °C**
Working temperature range

➡ **Up to 0,6 kW**
Cooling power

➡ **Up to 22 l/min**
Pump capacity



Option: Drain tap on front (see accessories)

Model	Working temp. range (°C)	Heating power (kW)	Bath		Pump data				Cooling power (kW) at (°C)				Dimensions WxDxH (mm)	Cat.No.	G
			volume (ltr)	depth (mm)	max. pressure (l/min) (bar)	max. suction (l/min) (bar)	20	0	-20	-30					
Ministat 125	-25...150	1,0	2,75/1,3*	120	22	0,7	16	0,4	0,30	0,21	0,05	-	225x370x429	2014.0011.01	2
Ministat 125w	-25...150	1,0	2,75/1,3*	120	22	0,7	16	0,4	0,30	0,20	0,10	-	225x370x429	2014.0006.01	2
Ministat 230	-40...200	2,0	3,2/1,7*	135	22	0,7	16	0,4	0,42	0,38	0,25	0,14	255x450x476	2015.0005.01	2
Ministat 230w	-40...200	2,0	3,2/1,7*	135	22	0,7	16	0,4	0,42	0,38	0,25	0,14	255x450x476	2015.0007.01	2
Ministat 240	-45...200	2,0	4,9/2,8*	157	22	0,7	16	0,4	0,60	0,55	0,35	0,125	300x465x516	2016.0005.01	2
Ministat 240w	-45...200	2,0	4,9/2,8*	157	22	0,7	16	0,4	0,60	0,55	0,35	0,125	300x465x516	2016.0006.01	2

All units use natural refrigerant as standard

* with displacement insert

Temperature stability: ±0,02 K

w = water-cooled

Variostat®

► Cooling circulator for variable baths

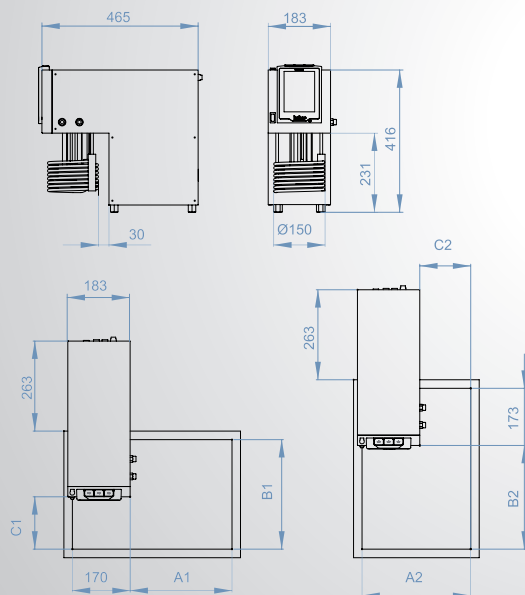
The Variostat can control the temperature of a wide range of bath dimensions. The special construction permits greatest flexibility for the user. The circulation can be adjusted to suit the bath size using the stepless variable speed suction/pressure pump. The pump pressure can also be controlled with an optional pressure sensor for external applications.

Insulated stainless steel baths are available in three standard sizes or can be made to measure.

➤ **Down to -30 °C**
Working temperature range

➤ **Up to 0,3 kW**
Cooling power

➤ **Up to 25 l/min**
Pump capacity



Model	Working temp. range (°C)	Bath volume (ltr)	Heating power (kW)	max. pressure (l/min)	Pump data		Cooling power (kW) at (°C)				Cat.No.	G		
					max. suction (l/min)	max. suction (bar)	100	20	0	-20			-30	
Variostat	-30...150	variable	1,0	25	0,7	18,5	0,4	0,3	0,3	0,2	0,12	0,03	2013.0003.01	2

All units use natural refrigerant as standard

Function version available by E-grade

Temperature stability: ±0,02 K

Cooling Circulators

► for internal and external temperature control

Cooling bath circulators with insulated baths made of stainless steel are suitable for the temperature control of objects directly in the thermostat bath and for the temperature control of externally closed or externally open (with optional level control) applications. The cooling circulators work in an environmentally and climate friendly manner using a natural refrigerants.

➡ **Down to -25 °C**
Working temperature range

➡ **Up to 0,26 kW**
Cooling power

➡ **Up to 27 l/min**
Pump capacity

⊕ CC-K6 / CC-K6s



⊕ KISS K6 / KISS K6s






Model	Working temp. range (°C)	Heating power (kW)	Bath			Pump data				Cooling power (kW) at (°C)			Dimensions WxDxH (mm)	Cat.No.	G
			opening (mm)	depth (mm)	volume (ltr)	max. pressure (l/min) (bar)	max. suction (l/min) (bar)	20	0	-20					
CC-K6	-25...200	2,0	140x120	150	4,5	27	0,7	22	0,4	0,20	0,15	0,05	210x400x546	2008.0005.01	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
CC-K6s	-25...200	2,0	140x120	150	4,5	27	0,7	22	0,4	0,26	0,21	0,05	210x400x546	2008.0002.01	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

All units use natural refrigerant as standard

Temperature stability: CC ±0,02 K ; KISS ±0,05 K

► for internal temperature control

Cooling bath circulators with insulated baths made of stainless steel are cost-effective solutions for the temperature control of objects directly in the bath. Using a pump adapter (accessory), the devices can be used for both externally closed and externally open (with option level control) temperature control applications. The cooling circulators work in an environmentally and climate friendly manner using a natural refrigerant.

-  **Down to -30 °C**
Working temperature range
-  **Up to 0,35 kW**
Cooling power
-  **Up to 27 l/min**
Pump capacity



Model	Working temp. range (°C)	Heating power (kW)	Bath			Pump data				Cooling power (kW) at (°C)			Dimensions WxDxH (mm)	Cat.No.	G
			opening (mm)	depth (mm)	volume (ltr)	max. pressure (l/min) (bar)	max. suction (l/min) (bar)	0	-10	-20					
CC-K12	-20...200	2,0	290x152	150	12	27	0,7	22	0,4	0,2	0,12	0,05	350x560x430	2009.0002.01	2
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
CC-K15	-20...200	2,0	290x152	200	15	27	0,7	22	0,4	0,2	0,12	0,05	350x560x430	2010.0002.01	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
CC-K20	-30...200	2,0	290x329	150	20	27	0,7	22	0,4	0,35	0,27	0,16	350x555x615	2011.0002.01	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
CC-K25	-30...200	2,0	290x329	200	25	27	0,7	22	0,4	0,35	0,27	0,16	350x555x615	2012.0002.01	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

All units use natural refrigerant as standard

Temperature stability: CC $\pm 0,02$ K ; KISS $\pm 0,05$ K


Cooling Circulators

► Series CC-400

Cooling bath circulators with insulated baths made from stainless steel. The devices have a temperature controlled bath cover plate to prevent the formation of ice or condensation in the bath, and are suited for the temperature control of external applications and temperature control of objects directly in the circulator bath. Typical applications are, for example, photometers, refractometers, viscometers, double-walled reaction vessels and autoclaves. Depending on the model, the devices can be used in Miniplant facilities, kilo laboratories, for the determination of freezing point, for low-temperature calibration, for petroleum testing, for temperature control of measuring instruments and test set-ups as well as for material testing, quality control and many more. Equipped with a professional range of functions of the Pilot ONE controller, high requirements are met.

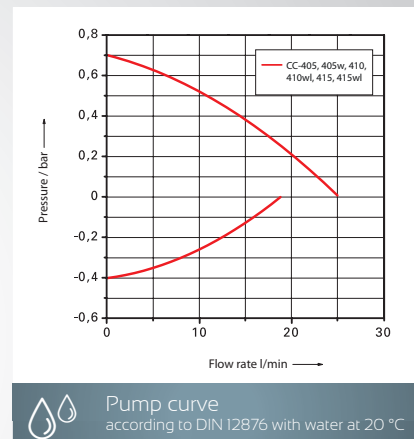
A powerful pressure/suction pump ensures good circulation and heat transfer to the application. The pump speed is controlled steplessly, the pressure can also be controlled using an optional pressure sensor.

The cooling circulators of the CC model range have Active Cooling Control for active cooling capacity control at the peak temperature and an automatic cooling capacity adaptation for energy-saving operation and reduced waste heat. The cover plate is temperature-controlled to prevent the formation of ice.

 **Down to -45 °C**
Working temperature range

 **Up to 1,2 kW**
Cooling power

 **Up to 25 l/min**
Pump capacity



 **VPC**
Variable Pressure Control

 **Plug & Play**
3 years warranty

Model	Working temp. range (°C)	Heating power (kW)	Bath		Pump data				Cooling power (kW) at (°C)					Cat.No.	G	
			volume (ltr)	depth (mm)	max. pressure (l/min)	max. suction (bar)	100	20	0	-20	-30	-40				
CC-405	-40...200	1,5	5	150	25	0,7	18,5	0,4	0,7	0,7	0,7	0,45	0,18	0,03	2017.0001.01	2
CC-405w	-40...200	1,5	5	150	25	0,7	18,5	0,4	0,7	0,7	0,7	0,45	0,18	0,03	2017.0002.01	2
CC-410	-45...200	3,0	22/8,5*	200	25	0,7	18,5	0,4	0,8	0,8	0,8	0,5	0,15	0,1	2019.0004.01	2
CC-410wl	-45...200	3,0	22/8,5*	200	25	0,7	18,5	0,4	0,8	0,8	0,8	0,5	0,15	0,1	2019.0001.01	3
CC-415	-40...200	1,5	5	150	25	0,7	18,5	0,4	1,2	1,2	1,0	0,6	0,2	0,05	2018.0001.01	2
CC-415wl	-40...200	1,5	5	150	25	0,7	18,5	0,4	1,2	1,2	1,0	0,6	0,2	0,05	2018.0002.01	3

Options on request: natural refrigerant * with displacement insert Temperature stability: ±0,02 K

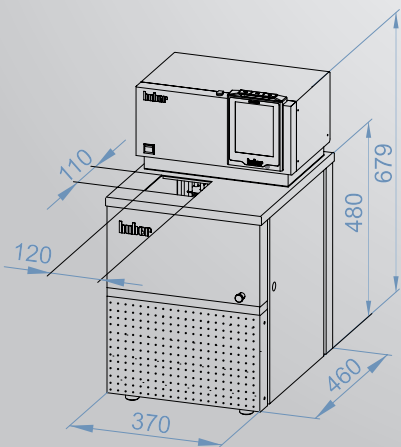
w = water-cooled | wl = air/water-cooled



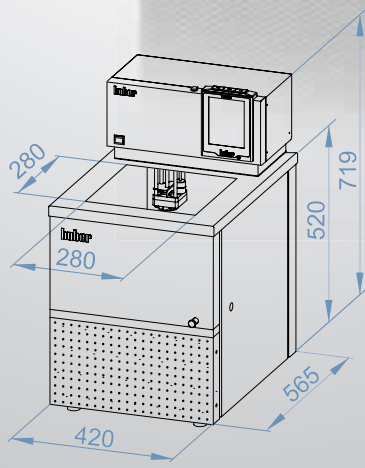
➔ CC-415wl



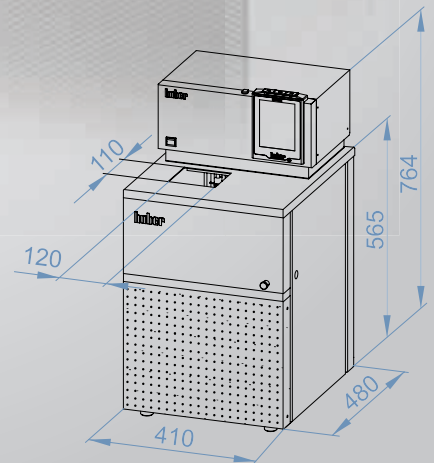
➔ CC-410wl



➔ CC-405, CC-405w



➔ CC-410, CC-410w



➔ CC-415, CC-415w


Cooling Circulators

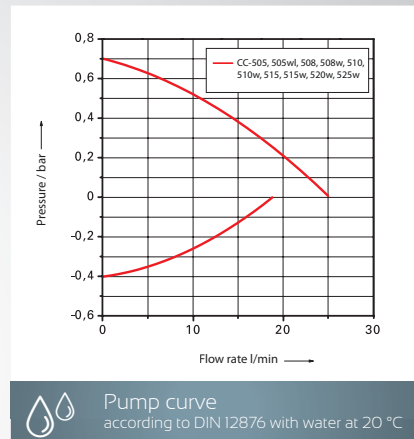
► Series CC-500

Cooling bath circulators of 500 series are equipped with insulated baths made from stainless steel and offer cooling capacities up to 7 kW for demanding temperature control applications down to -55 °C. The circulators are fitted with a temperature-controlled cover plate to avoid the formation of condensation and ice.

 **Down to -55 °C**
Working temperature range

 **Up to 7,0 kW**
Cooling power

 **Up to 25 l/min**
Pump capacity



Model	Working temp. range (°C)	Heating power (kW)	Bath		Pump data				Cooling power (kW) at (°C)					Dimensions WxDxH (mm)	Cat.No.	G
					volume (ltr)	depth (mm)	max. pressure (l/min) (bar)	max. suction (l/min) (bar)	100	20	0	-20	-40			
CC-505	-50...200	1,5	5	150	25	0,7	18,5	0,4	1,2	1,2	1,0	0,6	0,15	410x480x764	2018.0003.01	2
CC-505wl	-50...200	1,5	5	150	25	0,7	18,5	0,4	1,2	1,2	1,0	0,6	0,15	410x480x764	2018.0004.01	3
CC-508*	-55...200	3,0	5	160	25	0,7	18,5	0,4	1,5	1,5	1,5	1,0	0,3	410x480x764	2018.0023.01	2
CC-508w*	-55...200	3,0	5	160	25	0,7	18,5	0,4	1,5	1,5	1,5	1,0	0,3	410x480x764	2018.0026.01	2
CC-510	-50...200	3,0	26/15**	200	25	0,7	18,5	0,4	2,1	2,1	2,1	1,0	0,4	605x706x1136	2020.0010.01	2
CC-510w	-50...200	3,0	18/11**	200	25	0,7	18,5	0,4	2,4	2,4	2,4	1,0	0,4	455x515x1014	2020.0002.01	2
CC-515	-55...200	3,0	26/15**	200	25	0,7	18,5	0,4	3,3	3,3	3,3	1,6	0,6	605x706x1136	2021.0001.01	2
CC-515w	-55...200	3,0	18/11**	200	25	0,7	18,5	0,4	3,3	3,3	3,3	1,6	0,6	455x515x1014	2020.0003.01	2
CC-520w	-55...200	3,0	17/10**	200	25	0,7	18,5	0,4	5,0	5,0	5,0	3,0	1,5	539x629x1102	2022.0001.01	3
CC-525w	-55...100	3,0	17/10**	200	25	0,7	18,5	0,4	7,0	7,0	7,0	3,0	1,5	539x629x1102	2023.0001.01	3

Options on request: natural refrigerant * as standard with natural refrigerant ** with displacement insert Temperature stability: ±0,02 K

w = water-cooled

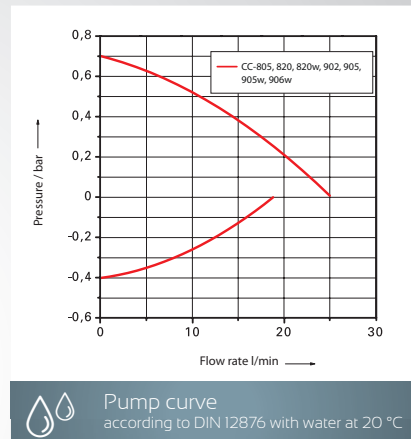
► Series CC-800 / 900

Cooling bath circulators of 800 and 900 series are equipped with insulated baths made from high-grade stainless steel and offer low working temperatures down to -90 °C. The devices are ideally suited for e.g. freezing point determination, low temperature calibration and petroleum testing.

➔ **Down to -90 °C**
Working temperature range

➔ **Up to 3,0 kW**
Cooling power

➔ **Up to 25 l/min**
Pump capacity



Model	Working temp. range (°C)	Heating power (kW)	Bath		Pump data				Cooling power (kW) at (°C)					Dimensions WxDxH (mm)	Cat.No.	G	
			volume (ltr)	depth (mm)	max. pressure (l/min)	max. suction (bar)	100	20	0	-20	-40	-60					
CC-805	-80...100	1,5	5	150	25	0,7	18,5	0,4	0,5	0,5	0,5	0,4	0,3	0,3	410x480x764	2024.0001.01	2
CC-820	-80...100	3,0	17/10*	200	25	0,7	18,5	0,4	1,2	1,2	1,2	1,1	0,9	0,6	539x629x1102	2025.0001.01	3
CC-820w	-80...100	3,0	17/10*	200	25	0,7	18,5	0,4	1,2	1,2	1,2	1,1	0,9	0,6	539x629x1102	2025.0002.01	3
CC-902	-90...200	1,5	5	200	25	0,7	18,5	0,4	1,2	1,2	1,2	1,1	0,9	0,6	550x600x911	2026.0005.01	3
CC-905	-90...200	3,0	26/15*	200	25	0,7	18,5	0,4	2,0	2,0	2,0	1,9	1,7	1,0	605x706x1136	2027.0001.01	3
CC-905w	-90...200	3,0	26/15*	200	25	0,7	18,5	0,4	2,0	2,0	2,0	1,9	1,7	1,0	605x706x1136	2027.0002.01	3
CC-906w	-90...200	3,0	30/19*	200	25	0,7	18,5	0,4	3,0	3,0	3,0	2,8	2,4	1,6	605x706x1136	2036.0001.01	3

Options on request: natural refrigerant * with displacement insert Temperature stability: ±0,02 K

w = water-cooled

Visco Baths

► for viscosimeters and densitometers

Visco baths are ideally suited for measuring tasks with capillary viscosimeters or densitometers. The devices are equipped with transparent polycarbonate baths and have a cooling coil for counter cooling as standard.

Visco 3: with 3 square inserts, 90 x 90 mm

Visto 5: with 5 round openings, Ø 51 mm

➔ **Up to +100 °C**
Working temperature range

➔ **Up to 2,0 kW**
Heating power

➔ **Up to 27 l/min**
Pump capacity



Viscosimeters are not included in scope of delivery!



Holder for Ubbelohde Viscosimeter for Visco 3 (Cat.No. 9586)

Model	Temperature range (°C)	Heating power (kW)	opening WxD (mm)	Bath depth (mm)	volume (ltr)	Pressure pump pressure (l/min)	max. (bar)	Dimensions WxDxH (mm)	Cat.No.	G
CC-130A Visco 3	(15)* 28...100	2,0	90x90	310	30	27	0,7	500x240x490	2001.0006.01	1
CC-130A Visco 5	(15)* 28...100	2,0	Ø 51	310	30	27	0,7	500x240x490	2001.0007.01	1

* Auxiliary cooling device required (see glossary "Working temperature range") Temperature stability: ±0,02 K

BFT®

► Beer Force Ageing Test Bath

Air-cooled heating/cooling bath circulator for beer force ageing test for the determination of the shelf life of beers. The device is equipped with a programme encoder for automatic temperature cycles. Due to the constant temperature change between 0 °C and 40 °C / 0 °C and +60 °C in the cycle time of 24 hours, an artificial aging of the beer is simulated.



➤ **Down to -40 °C**
Working temperature range

➤ **Up to 1,2 kW**
Cooling power

➤ **40 litres**
Bath volume

A universal basket is available as option on request.

⊕ BFT5

Model	Working temp. range (°C)	Bath opening WxD (mm)	Bath depth (mm)	Heating power (kW)	Cooling power at 20°C (kW)	Dimensions WxDxH (mm)	Cat.No.	G
BFT5	-40...80	350x410	270	2,0	1,2	460x710x911	2041.0001.01	3

Inspired by **temperature** designed for you

Technische Änderungen vorbehalten. Für Druckfehler und Irrtümer keine Haftung.

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