

Temperature control units for industrial application, Huber

The dynamic temperature control systems of the Unistat series revolutionized fluid temperature control engineering. Unistats are ideal for fast and highly accurate temperature control of external applications, such as reactors, autoclaves, miniplants, pilot systems, reaction calorimeters, or distillation plants. Compared to conventional circulator baths, Unistats convince with their unique thermodynamics for highly accurate and reproducible results. The Unistat technology ensures shortest possible heating and cooling times as well as wide temperature ranges without time-consuming fluid change. Choose from a portfolio of more than 60 models with cooling capacities from 0.7 to 130 kW. Unistat temperature control systems offer a range of professional functions for all types of demands. They feature a colored touch screen display with comfortable menu navigation and graphical real-time indication of temperature curves as well as an intelligent cascade temperature control and powerful circulation pumps with speed control, as well as a programmer, ramp function, calendar start, adjustable user menus, sensor calibration, and analog and digital interfaces.

Advantages & functions:

- Fast heating and cooling:
Ideal for the implementation of isothermal chemical processes
- Excellent dynamics:
First choice for exothermal reactions in terms of operational safety
- Highly accurate and reproducible:
For sophisticated temperature control tasks from -125°C to +425°C
- Uniquely small dimensions, very compact design;
Convincing volume refrigeration capacity [Watt/dm³]
- Large temperature range without tedious fluid change:
The thermofluid DW-Therm covers temperatures from -90°C to +200°C
- Large coloured 5.7" TFT touch screen:
Graphics capable, multi-lingual, dialog capable, and very easy to operate
- Highest refrigeration capacity density [W/L]:
For a highly dynamic temperature change
- Flexible communication:
With USB and Ethernet interfaces

Unistat cooling heating thermostats up to -40°C

As a standard, all models come with natural refrigerant.
eo = for externally open operation

Type	Temp. range °C	Pump pressure max. l/min / bar	Heating capacity kW	Cooler capacity at 200/20/0/-20/-30°C kW	Dimensions (W×H×D) mm	Order No.
Petite Fleur	-40 – 200	25 / 0.9	1.5	0.48/0.48/0.45/0.27/0.16	260 × 450 × 504	10 59 61031
Petite Fleur w	-40 – 200	25 / 0.9	1.5	0.48/0.48/0.45/0.27/0.16	260 × 450 × 504	10 59 61032
Petite Fleur eo	-40 – 200	25 / 0.9	1.5	0.48/0.48/0.45/0.27/0.16	260 × 450 × 504	10 59 61033
Grande Fleur	-40 – 200	47 / 0.9	1.5	0.60/0.60/0.60/0.35/0.20	295 × 530 × 570	10 59 61034
Grande Fleur w	-40 – 200	47 / 0.9	1.5	0.60/0.60/0.60/0.35/0.20	295 × 530 × 570	10 59 61035
Grande Fleur-eo	-40 – 200	47 / 0.9	1.5	0.60/0.60/0.60/0.35/0.20	295 × 530 × 570	10 59 61036
Grande Fleur w-eo	-40 – 200	47 / 0.9	1.5	0.60/0.60/0.60/0.35/0.20	295 × 530 × 570	10 59 61037

Unistat circulating thermostats up to -55°C

w = water-cooled refrigerator

wl = water-and-air-cooled refrigerator

Type	Temp. range °C	Pump pressure max. l/min / bar	Heating capacity kW	Cooler capacity at 200/20/0/-20/-30°C kW	Dimensions (W×H×D) mm	Order No.
Unistat tango	-45 – 250	55 / 0.9 ¹⁾	3.0	0.7/0.7/0.7/0.7/0.4/0.06	426 × 327 × 631	10 59 61001
Unistat tango w	-45 – 250	55 / 0.9 ¹⁾	3.0	0.7/0.7/0.7/0.7/0.4/0.06	426 × 327 × 631	10 59 61003
Unistat tango wl	-45 – 250	55 / 0.9 ¹⁾	3.0	0.7/0.7/0.7/0.7/0.4/0.06	426 × 327 × 631	10 59 61002
Unistat 405	-45 – 250	55 / 0.9 ¹⁾	3.0	1.0/1.0/1.0/1.0/0.6/0.15	426 × 327 × 631	10 59 64051
Unistat 405w	-45 – 250	55 / 0.9 ¹⁾	3.0	1.3/1.3/1.3/1.3/0.7/0.15	426 × 327 × 631	10 59 64052
Unistat 405wl	-45 – 250	55 / 0.9 ¹⁾	3.0	1.3/1.3/1.3/1.3/0.7/0.15	426 × 327 × 631	10 59 64901
Unistat 410	-45 – 250	56 / 0.9 ¹⁾	3.0	1.3/1.5/2.5/1.5/0.8/0.17	460 × 554 × 1201	10 59 60201
Unistat 410w	-45 – 250	56 / 0.9 ¹⁾	1.5/3.0	1.3/1.5/2.5/1.5/0.8/0.17	426 × 360 × 631	10 59 64102
Unistat 425	-40 – 250	91 / 1.5 ²⁾	2.0	2.8/2.8/2.8/2.5/1.9/0.2	460 × 554 × 1453	10 59 64251
Unistat 425w	-40 – 250	91 / 1.5 ²⁾	2.0	2.8/2.8/2.8/2.5/1.6/0.1	460 × 554 × 1453	10 59 64252
Unistat 430	-40 – 250	91 / 1.5 ²⁾	4.0	3.5/3.5/3.5/3.5/2.2/0.3	460 × 554 × 1453	10 59 64301
Unistat 430w	-40 – 250	91 / 1.5 ²⁾	4.0	3.5/3.5/3.5/3.5/2.2/0.3	460 × 554 × 1453	10 59 64302
Unistat 510	-50 – 250	112 / 1.5 ²⁾	6.0	5.3/5.3/5.3/5.3/2.8/0.9	560 × 754 × 1453	10 59 65100
Unistat 510w	-50 – 250	112 / 1.5 ²⁾	6.0	5.3/5.3/5.3/5.3/2.8/0.9	460 × 554 × 1453	10 59 65102

¹⁾ Pressure regulation VPC integrated

²⁾ Pressure regulation VPC via optional bypass

Natural refrigerant available on request. Flat-design models available on request.



Unistat circulating thermostats up to -85°C

Type	Temp. range °C	Pump pressure max. l/min / bar	Heating capacity kW	Cooler capacity at 250/200/100/0/-20/-40/-60/-80°C kW	Dimensions (W×H×D) mm	Order No.
① Unistat 705	-75 – 250	55 / 0,9 ¹⁾	1.5/3.0	0.6/0.6/0.6/0.65/0.6/0.6/0.3/–	425 × 400 × 720	10 59 67051
Unistat 705w	-75 – 250	55 / 0,9 ¹⁾	1.5/3.0	0.6/0.6/0.6/0.65/0.6/0.6/0.3/–	425 × 400 × 720	10 59 67052
Unistat 815	-85 – 250	40 / 0,9 ¹⁾	2	1.3/1.3/1.3/1.5/1.5/1.4/1.2/0.2	460 × 604 × 1465	10 59 68151
② Unistat 815w	-85 – 250	40 / 0,9 ¹⁾	2	1.5/1.5/1.5/1.5/1.5/1.4/1.2/0.2	460 × 604 × 1465	10 59 68152

¹⁾ Pressure regulation VPC integrated
Natural refrigerant available on request.

Heating circulator for closed systems up to 300°C

Type	Temp. range °C	Pump pressure max. l/min / bar	Heating capacity kW	Dimensions (W×H×D) mm	Order No.
③ Chili 65 – 300	65 – 300	45 / 0.9	3	240 × 427 × 393	10 59 62101



③