

Circulators Open Water Baths Cooling Baths Chillers

With a large accessory programme
-35°C to +150°C



The ScanVac product range comprises a wide range of heated and cooled quality baths for a wide range of applications in the baths and for external circulation purposes with a wide accessory range.

Highest Safety Class 3

The safety in the circulator includes adjustable overtemperature protection for accepting medias of different boiling point and too low liquid level floater avoiding burn down if the liquid levels are too low. This ensures the highest Safety Class 3 according to DIN 12876-1.

High Heating Capacity 2000 Watt

The heating of the cooling and heated baths is 2000 watt for fast heat up of the bath and to control cooling baths with a very high cooling capacity.

Microprocessor Control

A PID controlled microprocessor ensures high temperature stability of ± 0.01 °C, digital readout with a resolution of 0.1 °C and with possibility for calibration of display set point.

Strong pump 17 l/min 350 mBar

The strong circulation pump ensures excellent temperature distribution in the bath and also when using external circulation. The pump can be adjusted to minimize the noise in the bath and optimize the external circulation.

External circulation

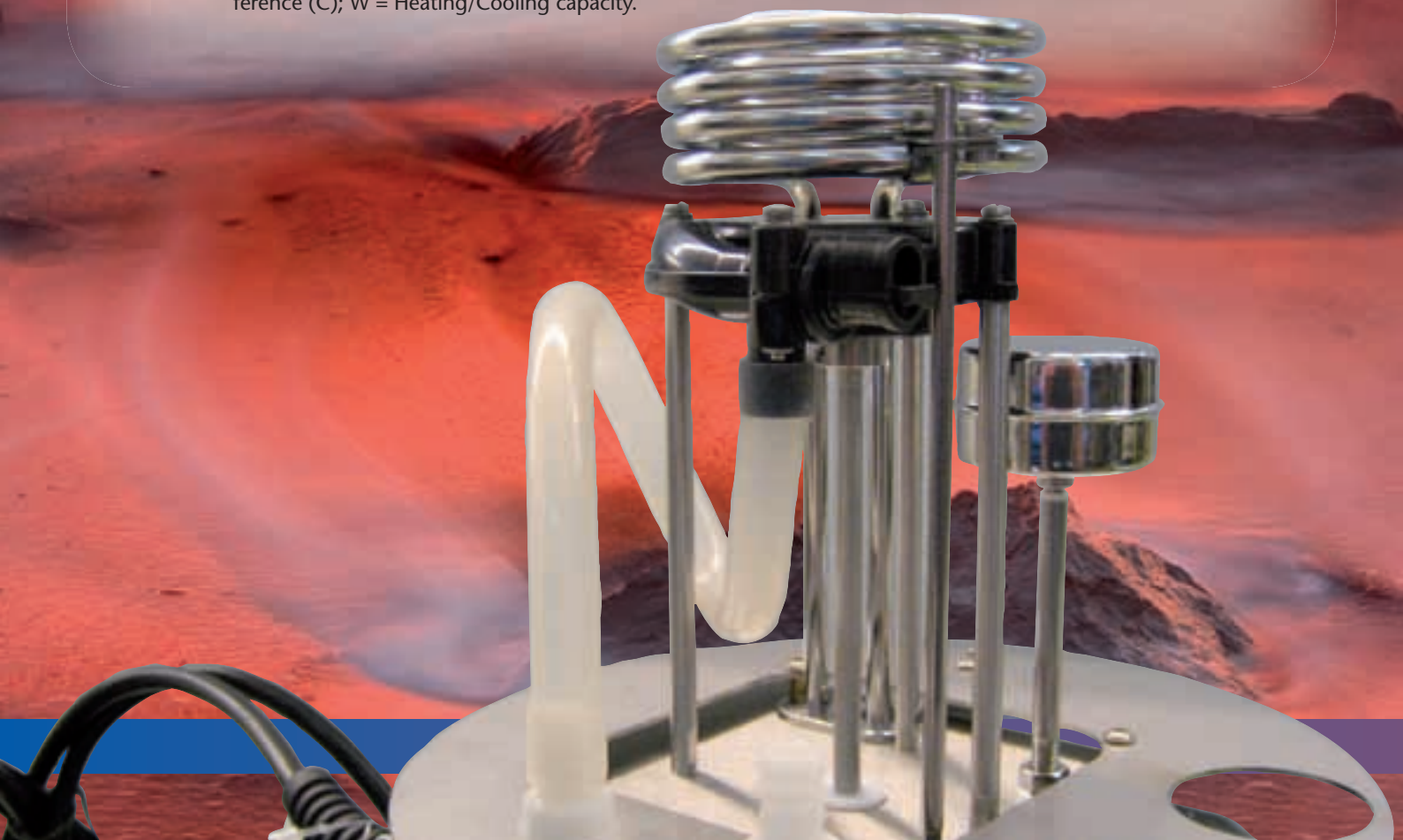
The external circulation connection is provided on the back of the baths through a flexible lockable connection kit. This works as a snap-on connection with stoppering. This allows easy cleaning and safe operation.

Heating up and cooling down time

If it is needed to calculate the heat up or cooling down time A very simple empiric formula may be used as follows:

$$T = V \times \Delta T \times 70 / W$$

Where T = Heating/Cooling time (minutes); V = Total liquid volume (litres); ΔT = Temperature difference (C); W = Heating/Cooling capacity.



HeatSafe™

HeatSafe 4

Powerfull Heating 4 litres acrylic bath with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt for fast heat up.

The strong pump of 350 mbar allows excellent temperature control externally with the included external circulating kit. The high grade stainless steel seamless bath and pump and compact design ensures long life, low noise level and low energy consumption.

HeatSafe 6

Powerfull Heating 6 litres stainless steel with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt for fast heat up.

The strong pump of 350 mbar allows excellent temperature control externally with the included external circulating kit. The high grade stainless steel seamless bath and pump, the thick insulation ensures long life, low noise level and low energy consumption. May be supplied with a build in drintap for easier cleaning.

HeatSafe 8

Powerfull Heating 8 litres insulated bath with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt for fast heat up.

The strong pump of 350 mbar allows excellent temperature control externally with the included external circulating kit. The high grade stainless steel seamless bath and pump, the thick insulation ensures long life, low noise level and low energy consumption. May be supplied with a build in drintap for easier cleaning.

HeatSafe 18

Powerfull Heating 18 litres insulated bath with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt for fast heat up.

The strong pump of 350 mbar allows excellent temperature control externally or in the bath. The high grade stainless steel seamless bath and pump, the thick insulation ensures long life, low noise level and low energy consumption. May be supplied with a build in drintap for easier cleaning.

HeatSafe 28

Powerfull Heating 28 litres insulated bath with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt for fast heat up.

The strong pump of 350 mbar allows excellent temperature control in the bath. The high grade stainless steel seamless bath and pump, the thick insulation ensures long life, low noise level and low energy consumption. May be supplied with a build in drintap for easier cleaning.



Specifications	HeatSafe 4	HeatSafe 6	HeatSafe 8	HeatSafe 18	HeatSafe 28
Cat. No.					
Temperatur range °C:	+25°C til +150°C	+25°C til +150°C	+25°C til +150°C	+25°C til +150°C	+25°C til +150°C
Set point accuracy °C:	0.5	0.5	0.5	0.5	0.5
Set point calibration resolution °C:	0.1	0.1	0.1	0.1	0.1
Stability °C:	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Control:	PID	PID	PID	PID	PID
Pump Capacity L/min:	Max. 17	Max. 17	Max. 17	Max. 17	Max. 17
Pump pressure mBar:	350	350	350	350	350
Heating capacity W:	2000	2000	2000	2000	2000
Safety Class:	Class 3	Class 3	Class 3	Class 3	Class 3
Totale volume L:	6	8	8	18	28
Work volume L:	5	6	6	16	24
Bath opening Dx B mm:	0	0	300x1150	300x330	330x500
Dimension external Dx B x H mm:	Ø 200x155	350x130x175	439x270x265	469x420x265	584x360x235
Dimension internal Dx B x H mm:	Ø 200x155	315x110x175	300x150x200	330x300x200	500x300x200
Drain:	No	Option	Option	Option	Option
VoltageV/Hz:	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz
Weight Kg:	4	5	10	12	20
Power consumption W:	2000	2000	2000	2000	2200
Isolation thickness mm.:	0	0	50	50	30
Cabinet material:	Cabinet Acrylic	Polyester coated steel	Polyester coated steel	Polyester coated steel	Polyester coated steel
Bath and pump material:	Stainless steel 304	Stainless steel 304	Stainless steel 304	Stainless steel 304	Stainless steel 304
Includes: External Circ. kit.	Yes	Yes	Option	Option	Option

The cooling bath and heating bath can be ordered as separate stand alone units

ChillSafe™

ChillSafe 8-30

Powerfull cooling chiller and bath with cooling capacity of 600 watt at 20 °C with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt.

The strong pump allows excellent external temperature external control or cooling down of samples in the bath. The high grade stainless steel seamless bath and pump, the strong cooling system and thick insulation ensures long life, low noise level and low energy consumption. The chiller is included draintap for easy cleaning and lid for cooling obejts in the bath.

ChillSafe 18-30

Powerfull cooling chiller and bath with cooling capacity of 900 watt at 20 °C with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt.

The strong pump allows excellent external temperature external control or cooling down of samples in the bath. The high grade stainless steel seamless bath and pump, the strong cooling system and thick insulation ensures long life, low noise level and low energy consumption. The chiller is mounted on castors and is included draintap for easy cleaning and cooling objects in the bath.

ChillSafe 18-30 power

Powerfull cooling chiller and bath with cooling capacity of 1200 watt at 20 °C with strong pump in highest Safety Class 3 and high heating capacity of 2000 watt.

The strong pump allows excellent external temperature external control or cooling down of samples in the bath. The high grade stainless steel seamless bath and pump, the strong cooling system and thick insulation ensures long life, low noise level and low energy consumption. The chiller is mounted on castors and is included draintap for easy cleaning and a lid for easy cleaning and cooling objects in the bath.

ChillSafe may be provided with an extra strong external circulation pump for cooling down over long distances like in massspectofotometers.



Specifications	ChillSafe 8-30	ChillSafe 18-30	ChillSafe 18-30 Power
Cat. No.			
Temperatur range °C:	-35°C til +150°C	-35°C til +150°C	-35°C til +150°C
Set point accuracy °C:	0.5	0.5	0.5
Set point calibration resolution °C:	0.1	0.1	0.1
Stability °C:	± 0.1	± 0.1	± 0.1
Control:	PID	PID	PID
Pump Capacity L/min:	Max. 17	Max. 17	Max. 17
Pump pressure mBar:	350	350	350
Heating capacity W:	2000	2000	2000
Safety Class:	Class 3	Class 3	Class 3
Totale volume L:	8	18	18
Work volume L:	6	16	16
Bath opening Dx B mm:	300x150	330x300	330x300
Dimension external Dx BxH mm:	439x273x523	469x423x672	469x423x672
Dimension inside Dx BxH mm:	300x150x200	330x300x200	330x300x200
Drain:	Yes	Yes	Yes
Castors lockable:	No	Yes	Yes
Cooling Capacity +20°C	600 Watt	900 Watt	1200 Watt
Cooling Capacity +0°C	400 Watt	660 Watt	880 Watt
Cooling Capacity -10°C	220 Watt	380 Watt	500 Watt
Cooling Capacity -20°C	110 Watt	220 Watt	300 Watt
VoltageV/Hz:	230V/50 Hz or 115V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz
Weight Kg:	35	47	47
Power consumption W:	2400	2800	3200
Isolation thickness mm:	50	50	50
Cabinet material:	Polyester coated steel	Polyester coated steel	Polyester coated steel
Bath and pump material:	Stainless steel 304	Stainless steel 304	Stainless steel 304
Kompressor:	Danfoss	Danfoss	Danfoss
Refrigerant:	R134a	R134a	R134a
External Circulation:	Optional	Optional	Optional

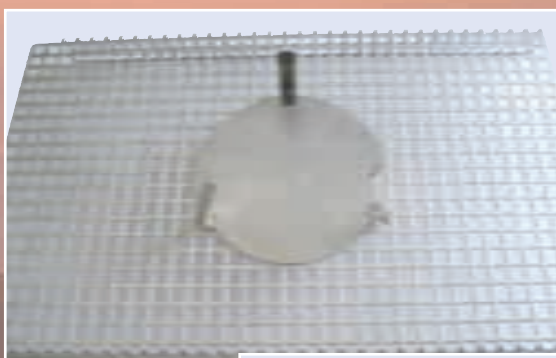
The cooling bath and heating bath can be ordered as separate stand alone units

Accessories:

A wide range of accessories are available all made in acid resistant stainless steel

Flex tray for fixation of ErlenMeyer flasks and test tube racks

7.002.500.002	Flex tray 8	Tray for 8 litres bath for fixation of Clamps for Erlenmeyer flasks
7.002.500.003	Flex tray 18	Tray for the 18 litres bath for fixation of Clamps for Erlenmeyer flasks
7.002.500.013	Flex tray 28	Tray for the 28 litres bath for fixation of Clamps for Erlenmeyer flasks
7.002.500.005	C100	Clamp for Flex tray taking 100 Erlenmeyer flasks
7.002.500.006	C250	Clamp for Flex tray taking 250 Erlenmeyer flasks
7.002.500.007	C500	Clamp for Flex tray taking 500 Erlenmeyer flasks
7.002.500.008	C1000	Clamp for Flex tray taking 1000 Erlenmeyer flasks
7.002.500.101	Ext. Kit	Kit for connection to circulator.
7.002.500.202	Clamp	Clamps for SHC 2000 fixation to all baths with wall thickness of max. 35 mm.
7.002.500.301	Drain Tap	Drain Tap for HeatSafe baths.



SHC 2000 is available as a stand alone circulator to be used either with clamp fitting most bath or on a bridge tex a Heto-bridge.



Contact our local distributor to hear more.
Sales and Services

ScanVac A/S is a private owned Danish compagny located in the north of Copenhagen with an organization with more than 25 years of experience in making high quality circulators, water and cooling baths with accessories. All the products are designed also to fit, complement and replace the wellknown Heto quality products which is not been manufactured anymore. The ScanVac service organization is ready to fast, competitive and correct to provide service and spareparts on the ScanVac product range but also for the previous Heto products.



Developing Engeneer Per Rasmussen, with 25 year of experience in cooling technology.



CoolSafe™ -55°C and -110°C, 4 litres Cooling Traps and Freeze Dryer



CoolSafe™ facilitates versatile large, fast and easy freeze drying of even large Samples.

Chamber CCS300
Large strong acrylic freeze drying chamber for up to 10 trays with individual height adjustment possibility. Allows individual profiles in the trays. With 10 trays Ø 250 mm, product area will be 0,50 m². With maximum height of 150 mm with one tray or 15 mm with 10 trays. Each tray has a dimension of Ø 250 x 20 mm and is of high grade 316 L stainless steel. Chamber dimensions H=350 x 300 mm. Materials: Stainless steel AISI 316 rack, shelf and tray. Chamber in Acrylic, gasket for acrylic plate.



Cat. No.	Code	Description
7.001.000.085	CCS300	AC Chamber with rack, 3 stainless steel shelves, 3 trays and 10 trays
7.001.000.185	Shelf300	Extra shelf for fixation of extra product tray
7.001.000.285	Tray300	Extra product tray Ø 250 x 20 mm

Chamber CCS300/4 Mansfold
Same as CC300 but with extra 4 1/4 inches rubber valves on top. For other freeze drying accessories. Chamber dimensions H=350-300 mm. Materials: Stainless steel AISI 316 rack, shelf and tray. Chamber in Acrylic plate, 4 rubber valves 1/4 inches.



Cat. No.	Code	Description
7.001.000.085	CCS300-4V	AC Chamber with rack, 3 stainless steel shelves, 3 trays and 10 trays
7.001.000.185	Shelf300	Extra shelf for fixation of extra product tray
7.001.000.285	Tray300	Extra product tray Ø 250 x 20 mm

VacSafe™ 15 15 l/min., 30 hPa Vacuum Pump



High volume, low pressure vibration free, portable and noiseless vacuum pump, maintenance free with unbreakable mechanical parts. Saves the environment from uncondensed vapours and liquids, avoiding harmful contamination in the laboratory and saves water, energy, expensive oils, membranes and other spare parts.



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