

Circulators Open Water Baths Cooling and Cryo Baths

With a large accessory programme

-90°C to +200°C



The ScanVac product range comprises a wide range of heated, cooled, and low temperature quality baths for a wide range of applications. Ideal for both bath use or external circulation purposes with a wide accessory range.





Individual Versatile Circulators

Versatile stand alone circulators for existing or new heated, cooling and cryo baths mounted on bridges or clamps.

The safety in the circulator includes adjustable over temperature protection for accepting medias of different boiling points and low liquid level float switch. 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 a fast heat up and to control cooling baths that have a very high cooling capacity.

Microprocessor Control

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

Strong pump, 17 l/min 350 mBar

The strong circulation pump of 17 l/min and 350 mBar ensures excellent temperature distribution in the bath or when using external circulation.

The pump can be adjusted to minimize the noise in the bath and optimize the external circulation.

Specific error indication

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 stop cock.

This allows for easy cleaning and safe operation.

2 models are available: The SCH 2000 as above and the SCH 4000 plus optional external Pt-sensor allowing direct temperature regulation of samples, and with RS 232C output for documentation of process parameters.

Specifications	SHC 2000	SHC 4000
Cat. No.	7.002.400.001	7.002.600.001
Temperature range °C:	-35°C til +150°C	-100°C til +150°C
Set point accuracy °C:	0.5	0.5
Set point calibration resolution °C:	0.1	0.1
Stability °C:	± 0.1	± 0.1
Control:	PID	PID
Pump Capacity L/min:	Max. 17	Max. 17
Pump pressure mBar:	350	350
Heating capacity W:	2000	2000
Safety Class:	Class 3	Class 3
VoltageV/Hz:	230V/50 Hz, 115V/60 Hz, 220V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz
Weight Kg:	4	4
Power consumption W:	2000	2000

7.002.500.001 Ext. Circulation kit for ChillSafe, CryoSafe and HeatSafe

7.002.600.110 Ext Pt 100 sensor for SHC 4000

7.002.600.111 Programme for documentation on PC for SHC 4000

7.002.500.203 Clamp 50 Clamp for SHC 2000/4000 fitting baths with wall thickness up to 5.0 mm

7.002.500.202 Clamp 35 Clamp for SHC 2000/4000 fitting baths with wall thickness up to 3.5 mm

HEATSAFE™

HeatSafe 4

Powerful Heating 4 litre 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

Powerful Heating 6 litre 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 built-in drintap for easier cleaning.

HeatSafe 8

Powerful Heating 8 litre 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 built-in drintap for easier cleaning.

HeatSafe 18

Powerful Heating 18 litre 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 built-in drintap for easier cleaning.

HeatSafe 28

Powerful Heating 28 litre 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 built-in drintap for easier cleaning.



**HeatSafe includes
SHC 2000 Circulator
HeatSafe Pro includes
SHC 4000 circulator**

Specifications	HeatSafe 4	HeatSafe 6	HeatSafe 8	HeatSafe 18	HeatSafe 28
HeatSafe Cat. No.	7.002.100.101	7.002.100.111	7.002.100.001	7.002.100.011	7.002.100.013
HeatSafe Pro Cat. Nr.		7.002.500.111	7.002.500.113	7.002.500.011	7.002.500.013
Temperature 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 DxB mm:	0	0	300x1150	300x330	330x500
Dimension external DxBxH mm:	Ø 200x155	350x130x175	439x270x265	469x420x265	584x360x235
Dimension internal DxBxH 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
Insulation 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	Option	Option	Option	Option

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 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 with a draitap for easy cleaning and lid for cooling objects 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 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 with a draitap for easy cleaning and lid for 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 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 with a draitap and 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 such as with mass spectrophotometers.



Specifications	ChillSafe 8-30	ChillSafe 18-30	ChillSafe 18-30 Power
ChillSafe Cat. No.	7.002.700.001	7.002.700.011	7.002.700.013
ChillSafe Pro Cat. Nr.	7.002.900.001	7.002.900.011	7.002.900.013
Temperature 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
Insulation 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
Compressor:	Danfoss	Danfoss	Danfoss
Refrigerant:	R134a	R134a	R134a
External Circulation:	Optional	Optional	Optional

CHILLSAFE – CRYOSAFE

with advanced temperature control SHC 4000

Intelligent low temperature controlled cryo baths with excellent temperature control at low temperatures even below -90°C allows easy operation, ramping and communication with a PC. It is a high quality, insulated, compact, stainless steel bath with strong compressors for temperature control internally or externally.

Cryobath

The ChillSafe Cryorange comprises 2 models an 18 litre -50°C or 8 litre -90°C baths.

- Heavy insulation ensures low energy consumption very low ultimate temperatures and safe operation
- Strong compressor system for low energy consumption, long life and lowest noise level
- Stainless steel 304 baths with rounded corners for easy cleaning and longest life time
- Temperature control in the bath or externally
- Lockable castors for easy transportation

The Temperature control allows

- Temperature below -90°C with a stability $\pm 0.1^{\circ}\text{C}$
- Soft touch for easy operation with digital readout
- Strong adjustable pump of 350 mBar, 17 l/min for best temperature control inside or outside the bath
- Included RS 232C/USB connection for temperature control and documentation
- Optional Pt 100 sensor
- Ramping facility for making experiments for
 - Freeze-drying applications for determination of eutectic points/freezing points
 - Molecular biology
 - Calibrations
 - Petroleum testing
 - Cell culture at low temperature
 - Controlled pre-freeze facility

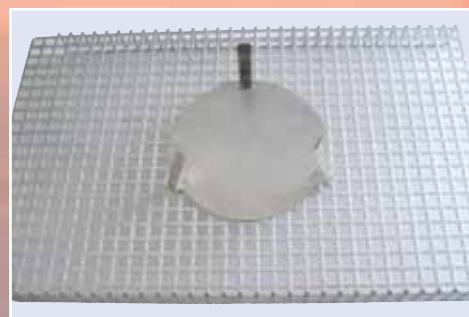
Specifications	CryoSafe 18-50	CryoSafe 8-90
Cat. No.	7.002.900.015	7.002.900.017
Temperature range $^{\circ}\text{C}$:	-50°C til $+150^{\circ}\text{C}$	-90°C til $+150^{\circ}\text{C}$
Set point accuracy $^{\circ}\text{C}$:	0.5	0.5
Set point calibration resolution $^{\circ}\text{C}$:	0.1	0.1
Stability $^{\circ}\text{C}$:	± 0.1	± 0.1
Control:	PID	PID
Pump Capacity L/min:	Max. 17	Max. 17
Pump pressure mBar:	350	350
Heating capacity W:	2000	2000
Safety Class:	Class 3	Class 3
Totale volume L:	18	8
Work volume L:	16	6
Bath opening DxH mm:	300x330	300x150
Dimension external DxHxH mm:	469x423x672	469x423x672
Dimension inside DxHxH mm:	330x300x200	330x300x200
Drain:	Yes	Yes
Castors lockable:	Yes	Yes
Cooling Capacity $+20^{\circ}\text{C}$	900 Watt	600 Watt
Cooling Capacity $+0^{\circ}\text{C}$	500 Watt	500 Watt
Cooling Capacity -20°C	300 Watt	400 Watt
Cooling Capacity -40°C	100 Watt	300 Watt
Cooling Capacity -80°C		100 Watt
VoltageV/Hz:	230V/50 Hz or 115V/60 Hz	230V/50 Hz, 115V/60 Hz, 220V/60 Hz
Weight Kg:	35	47
Power consumption W:	2400	2800
Insulation thickness mm.:	50	50
Cabinet material:	Polyester coated steel	Polyester coated steel
Bath and pump material:	Stainless steel 304	Stainless steel 304
Compressor:	Danfoss	Danfoss
External Circulation:	Optional	Optional



ACCESSORIES

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

7.002.500.000	Drain valve	For excisisting ScanVac / Heto baths
7.002.500.001	Ext. Circulation kit	Ext. circulations kit til ChillSafe and HeatSafe
7.002.500.203	Clamp 50	Clamp for HeatControl 2000/4000 fitting baths with wall thickness up to 5.0 mm
7.002.500.202	Clamp 35	Clamp for HeatControl 2000/4000 fitting baths with wall thickness up to 3.5 mm
7.002.500.301	Drain Tap	Drain tap to be mounted on HeatSafe 8,18,45
7.002.500.311	Cooling Coil	Cooling Coil fot HeatSafe 18
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
7.002.500.014	Lead ring	Lead ring for keeping flasks in the bath
7.002.500.312	S-Tube HS/CS	Silicone tube for external circulation kit of HeatSafe/CoolSafe 1 meter
7.002.500.004	C25-50	Clamp for Flex tray taking 25-50 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
7.002.500.010	CTrack	Clamp for Test tube racks
7.002.500.009	CPlasma	Clamp for Plasma Bags



SHC 2000 is available as a stand alone circulator to be used either with a clamp fitting most baths or on a bridge (eg a Heto-bridge.)



Contact our local distributor to hear more.
Sales and Services

Our other Products

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SCANVAC

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