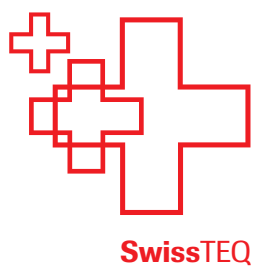


Trend setting
Laboratory Technology

salvisLAB



SwissTEQ

renggli

Laboratory
Systems

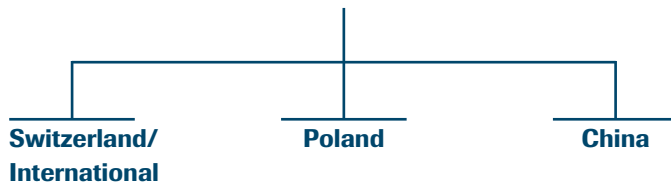
Tradition

Swiss tradition with a great future

Renggli, founded in 1927, is an established Swiss family enterprise with international orientation in the realm of complete laboratory solutions. As one of the leading European producers and market leader in Switzerland, Renggli designs and implements state-of-the-art laboratories for research, industry, medicine and education. Branch offices in Switzerland, Poland and China, as well as a worldwide presence and innumerable reference installations are evidence that Renggli is a reliable partner covering the entire range of laboratory technology.

renggli

Laboratory
Systems



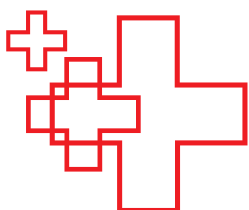
Renggli Headquarter, Rotkreuz



Renggli at Bialystok, Poland



Renggli at Yizheng, China



SwissTEQ

salvis **LAB**

by renggli

We design professional laboratory systems for you

Our laboratory systems are among the very best worldwide. We design them for enterprises and institutions with highest requirements in terms of flexibility, quality and precision. In addition to a wide variety of standardized systems, we also design and produce complex customized systems to meet your individual needs.

Our Core Competences

Counselling Competence

Our laboratory experts are eager to support you in all facets of laboratory technology. They will advise you accurately on all pertinent norms, legal provisions and safety aspects.

Planning and Engineering Competence

Our specialists are at your disposal to carry out the planning of the entire project. They even cover the engineering part, from media supply of the individual work place all the way to interfacing with the building control systems.

System Competences

In addition to being a dependable supplier of laboratory installations and equipment, we are your comprehensive one-stop service for counselling, planning/engineering, production, installation and maintenance/service. This is the key and guarantee for decades of perfect performance of your laboratories.

ThermoCenter



The SalvisLab ThermoCenter sets standards in quality and design. Short heating and precise temperature control make the ThermoCenters true experts in heating and drying tasks. The peculiarity of this multi-functional dry and heat cabinet is in a unique, patented system „everything-in-the-door“. Above all, the system guarantees full flexibility in the placement of the interior. Thanks to the touch screen, the operation is even easier and more manageable than before. SwissTEQ in its unique form.

- Improved energy efficiency thanks to our SalvisTEQ Controller
- Compact and flexible thanks to the patented „everything-in-the-door“ system
- Programmable independency
- Real-time clock
- Safety class 3.3
- USB interface
- Touchscreen
- Standard 6mm entry port

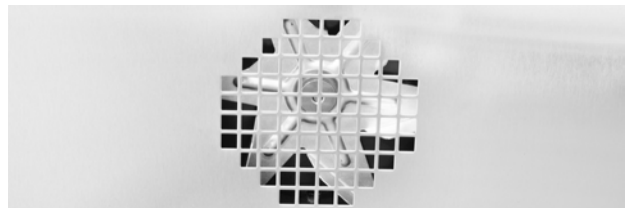
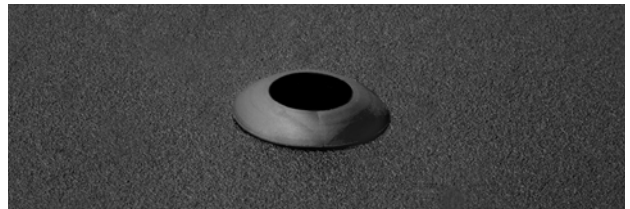


Options:

Additional memory
 Entry port 20mm
 Entry port 40mm
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe

Accessories:

Exhaust air adapter
 Fresh air filter
 Perforated stainless steel shelves
 Product temperature probe
 Stacking adapter
 Stainless steel shelves
 Wall bracket
 Wire shelves

**Thermocenter**

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (l)
 Shelves (standard/max.)
 Temp. range approx. $>5^{\circ}\text{C}$ oRt to $(^{\circ}\text{C})$
 Temp. variation at 50/150 $(\pm^{\circ}\text{C})$
 Temp. fluctuation at 100 $(\pm^{\circ}\text{C})$
 Heating-up time 70/150 $^{\circ}\text{C}$ (in min.)
 SalviTEQ Controller
 Display
 Ports

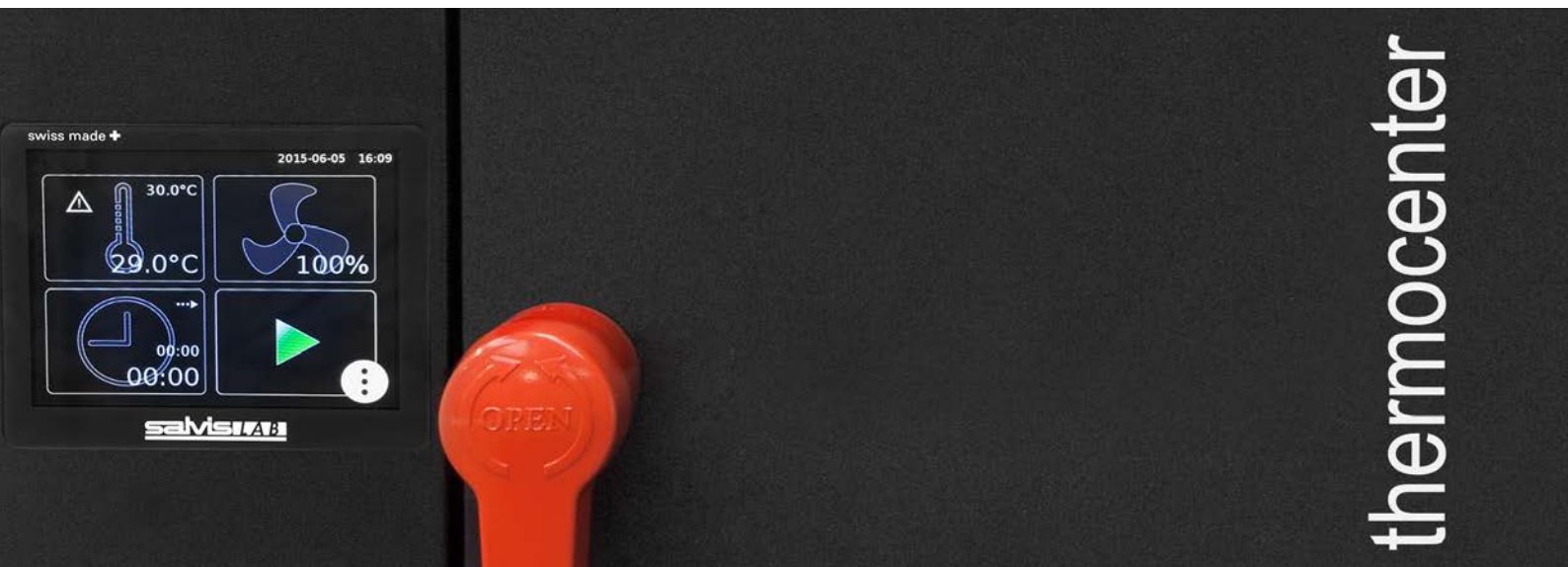
TC40

460x490x526
 340x370x330
 40
 1/8
 200
 0.4/1.5
 0.1
 10/24
 Yes
 Touch
 USB, Ethernet

TC100

570x620x656
 450x500x460
 100
 1/8
 200
 0.4/1.7
 0.1
 15/35
 Yes
 Touch
 USB, Ethernet

ThermoCenter



The SalvisLab ThermoCenter sets standards in quality and design. Short heating and precise temperature control make the ThermoCenter an ideal solution for heating and drying tasks of any kind. With the fans and heating elements in the rear part of the housing the ThermoCenter guarantees reliability and precision down to the last corner. The clearly arranged touchscreen makes operation even more efficient. SwissTEQ at its best.

- Improved energy efficiency thanks to our SalvisTEQ Controller
- Unlimited flexibility
- Real-time clock with process times
- Programmable, automatic restart after power loss
- USB and RJ-45 Interface
- Touchscreen
- Easy cleaning of the chamber
- Increased capacity of mechanical support
- Fresh air filter

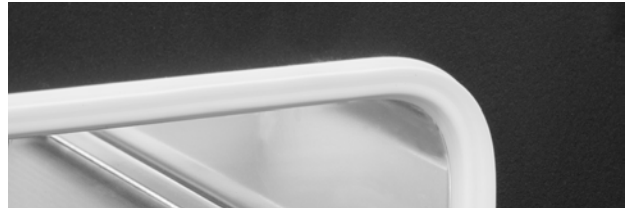


Options:

Additional memory
 Additional USB or RJ-45 interface
 Entry port 20mm
 Entry port 40mm
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe
 Two freely assignable analog outputs

Accessories:

Exhaust air adapter
 Fresh air filter
 Perforated stainless steel shelves
 Product temperature probe
 Stacking adapter
 Stainless steel shelves
 Wall bracket
 Wire shelves



Thermocenter	TC160	TC240	TC400
External dimensions (WxHxD) in mm	800x720x680	890x820x720	990x920x900
Internal dimensions (wxhxd) in mm	535x580x475	625x680x515	725x780x695
Internal volume (l)	160	240	400
Shelves (standard/max.)	2/8	2/8	2/10
Temp. range approx. >5°C oRt to (°C)	275	275	275
Temp. variation at 50/150 (±°C)	0.8/1.8	0.8/2.1	1.0/2.5
Temp. fluctuation at 100 (±°C)	0.2	0.2	0.2
Heating-up time 70/150 °C (in min.)	12/30	16/30	20/40
SalvisTEQ Controller	Yes	Yes	Yes
Display	Touch	Touch	Touch
Ports	USB, Ethernet	USB, Ethernet	USB, Ethernet

VacuCenter



The SalvisLab Vacucenter is the optimal solution for oxidation-sensitive substances and thermally instable products. It provides precise thermal conditions in dust-free vacuum atmosphere. These characteristics enable highly successful SalvisLab Vacucenter applications for a wide range of laboratory applications in areas such as chemical engineering, pharmaceuticals, foodstuffs, cosmetics and electronics. The SalvisLab Vacucenter is renowned for its compact formfactor, reliability and durability. SwissTEQ in its complete form.

- Dynamic regulation and improved energy efficiency thanks to our SalvisTEQ controller
- Precise needle valve ensures a perfectly controlled atmosphere
- Real-time clock with process times
- Uniform temperature through mantle heating

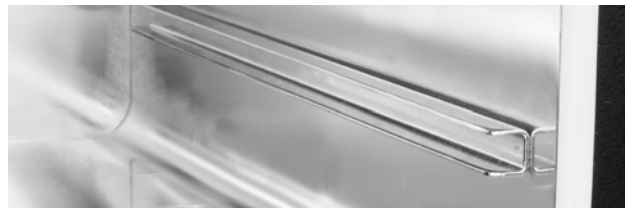


Options:

Additional memory
 Calibration certificate
 Digital vacuum display
 Digital vacuum display & vacuum control by pump
 Digital vacuum display & vacuum control by valve
 Door seal VITON
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe
 Solenoid vacuum valve chemical proof
 Two freely assignable analog outputs
 Vacuum pump connector

**Accessories:**

Aluminum shelves
 Double connector air & inert gas
 Light barrier
 Product temperature probe
 Stainless steel shelves

**Vacucenter**

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (l)
 Shelves (standard/max.)
 Temp. range approx. $>5^{\circ}\text{C}$ oRt to $(^{\circ}\text{C})$
 Temp. variation at $50/150^{\circ}\text{C}$ ($\pm^{\circ}\text{C}$)
 Temp. fluctuation at 100°C ($\pm^{\circ}\text{C}$)
 SalvisTEQ Controller
 Display
 Ports

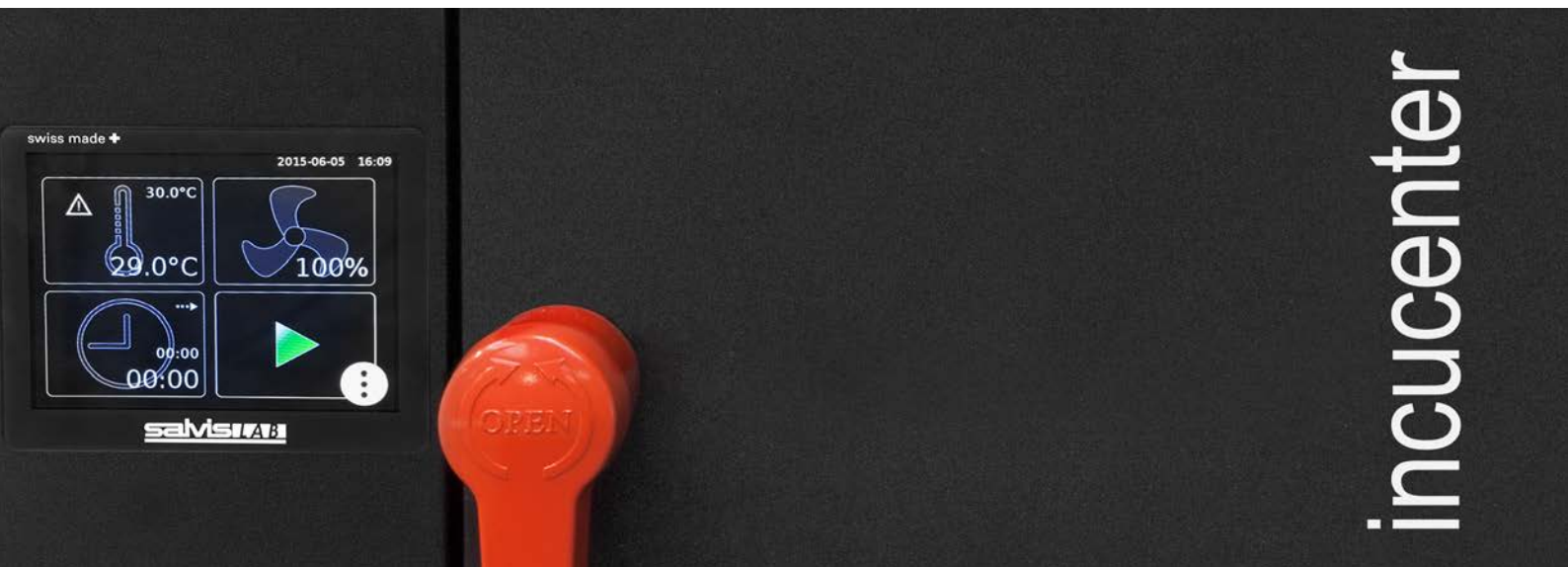
VC20

545x375x425
 250x250x320
 20
 1/3
 200
 1.0/2.4
 0.2
 Yes
 Touch
 USB, Ethernet

VC50

645x475x525
 350x350x420
 50
 1/5
 200
 1.0/2.6
 0.2
 Yes
 Touch
 USB, Ethernet

IncuCenter



incucenter

SalvisLab Incucenter are highly accurate special apparatus designed for incubation in clinical and industrial laboratory fields as well as for quality control. The exclusive IntelliFan-System from SalvisLab provides uniform, constant level temperature conditions at all locations within the chamber – independent of load. High degree of precision is assured over the full temperature range. The inner door made of safety glass permits optical process monitoring without heat energy loss. SwissTEQ for your incubation processes.

- SalvisTEQ Controller
- Quick heating and precise temperature control
- High energy efficiency
- In support of decontamination, the units may be heated up to +110°C.
- Real-time clock with process times
- Safety class 3.3
- Standard 6mm entry port
- Fresh air filter

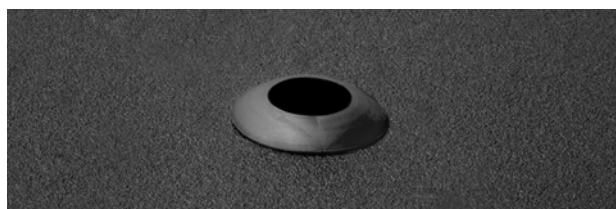


Options:

Additional memory
 Additional USB or RJ-45 interface
 Entry port 20mm
 Entry port 40mm
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe
 Two freely assignable analog outputs

Accessories:

Exhaust air adapter
 Fresh air filter
 Perforated stainless steel shelves
 Product temperature probe
 Stacking adapter
 Stainless steel shelves
 Wall bracket
 Wire shelves



Incucenter	IC40	IC80	IC160	IC240	IC400
External dimensions (WxHxD) in mm	650x510x510	750x540x600	800x720x680	890x820x720	990x920x900
Internal dimensions (wxhxd) in mm	385x370x305	485x400x395	535x580x475	625x680x515	725x780x695
Internal volume (l)	40	80	160	240	400
Shelves (standard/max.)	2/5	2/5	2/8	2/8	2/10
Temp. range approx. >5°C oRt to (°C)	110	110	110	110	110
Temp. variation at 37/110 (±°C)	0.3/0.8	0.3/0.8	0.5/1.2	0.5/1.8	0.5/2.0
Temp. fluctuation at 37 (±°C)	0.2	0.2	0.2	0.2	0.2
Heating-up time 37 °C (in min.)	10	14	20	26	33
Recovery time (in min.)	3	3	5	5	5
Power (W)	500	800	1000	1200	1200
SalvisTEQ Controller	Yes	Yes	Yes	Yes	Yes
Display	Touch	Touch	Touch	Touch	Touch
Ports	USB, Ethernet	USB, Ethernet	USB, Ethernet	USB, Ethernet	USB, Ethernet

IncuCenter ICN



SalvisLab Incucenter ICN is our precise natural convection Incubator serie. The ICN is especially designed for the long-term and continuously stable incubation in basic research / research institutes, food and beverage industry as well as microbiology laboratories. The exclusive EasyMenu controller from SalvisLab provides an uniform constant level of temperature conditions at any and all locations within the chamber.

- SalvisTEQ Controller
- Quick and precise temperature regulation
- Improved energy efficiency
- In support of decontamination, the units may be heated up to +80°C.
- Real-time clock with process times
- Touchscreen
- Easy and user friendly operation
- Standard 6mm entry port



Options:

Additional memory
 Entry port 20mm
 Entry port 40mm
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe

Accessories:

Exhaust air adapter
 Fresh air filter
 Perforated stainless steel shelves
 Product temperature probe
 Stacking adapter
 Stainless steel shelves
 Wall bracket
 Wire shelves

**Incucenter ICN**

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (l)
 Shelves (standard/max.)
 Temp. range approx. $>5^{\circ}\text{C}$ oRt to $(^{\circ}\text{C})$
 Temp. variation at $37/50^{\circ}\text{C}$ ($\pm^{\circ}\text{C}$)
 Temp. fluctuation at $37/50^{\circ}\text{C}$ ($\pm^{\circ}\text{C}$)
 Heating-up time $37/50^{\circ}\text{C}$ (min.)
 Recovery time $37/50^{\circ}\text{C}$ (door open for 30s, in min.)
 Power (W)
 Display
 Ports

ICN52

460x525x590
 340x370x410
 52
 2/8
 80
 0.5/0.7
 0.1/0.1
 25/50
 6/8
 450
 Touch
 USB, Ethernet

ICN118

570x650x720
 450x500x530
 118
 2/8
 80
 0.5/0.8
 0.1/0.2
 41/70
 7/9
 550
 Touch
 USB, Ethernet

WaterBath



The SalvisLab Waterbath is used as a proven aid for reliable temperature control of various samples. The different sizes of the water bath allow a versatile range of applications. The temperature is controlled by a microprocessor with an integrated PID controller. The integrated overtemperature protection provides an additional safeguard against overheating. Swiss quality and design.

- Excellent temperature distribution
- Electronic temperature control
- Easy operation and LED-Display
- Easy cleaning thanks to removable parts



Options:

Temperature upgrade 100°C (without circulation pump)

Accessories:

Fresh air filter

Milk bottle rack ø 56/8 holes

Rack for medical hot packs

Test tube rack ø 13/20 holes

Test tube rack ø 18/20 holes

Test tube rack ø 31/5 holes

**Waterbath**

Temp. range approx. $>5^{\circ}\text{C}$ oRt to $(^{\circ}\text{C})$

Temp. variation at 37°C ($\pm^{\circ}\text{C}$)

Temp. fluctuation at 37°C ($\pm^{\circ}\text{C}$)

Circulating pump

Bath volume max. (l)

Bath opening wxd (mm)

Bath depth h (mm)

External dimensions, including lid WxDxH (mm)

Power (W)

WB10

80

0.1

0.2

No

10

251x207

200

577x295x338

1000

WB20

80

0.1

0.2

Yes

20

455x265

200

779x350x355

1000

WB40

80

0.1

0.2

Yes

40

577x470

200

905x560x419

2200

BioCenter



The SalvisLab BioCenter is the ideal CO₂ incubator for cell and tissue cultures. The innovative and reliable design concept ensures optimal conditions for your applications. The selected temperature control technology operates without any ventilation inside the chamber, thus reducing the risk of contamination to a minimum. Constant conditions for temperature, CO₂ and humidity are kept independent from the load.

- Easy touchscreen control
- Decontamination at 200°C
- Temperature uniformity is achieved by heating the chamber from all six sides
- Infrared CO₂ probe
- Export process data to an SD card
- Sealing inner glass door
- Standard 25mm entry port



Options:

1-19% oxygen control
 Alarm contact
 Chamber power supply (IP66)
 Entry port 25mm
 Ethernet Port
 Inner glass door, 8 compartments (BC190)
 Inner glass door, 6 compartments (BC50)
 Log Software BC190

Accessories:

Automatic CO₂ cylinder change over unit (external)
 CO₂ Filter (pack of two)
 In-line CO₂ reducing valve with pressure gauge (2-30 p.s.i.)
 Perforated stainless steel shelves
 SD memory card
 Stacking kit & stand, with castors
 Stacking kit (no stand)
 Stand (no stacking kit) with four castors
 Two stage CO₂ regulator

**Biocenter**

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (l)
 Shelves (standard/max.)
 Temp. range approx. >5°C oRt to (°C)
 Temp. variation at 37°C (±°C)
 Temp. fluctuation at 37°C (±°C)
 CO₂ range (%)
 CO₂ variation (±%)
 CO₂ fluctuation (±%)
 CO₂ recovery time 37°C (door open for 30s, %/min.)
 Waterbath (l)
 Relative humidity 37°C (%)
 Voltage (±10%) 50/60 Hz
 Ethernet port
 Entry port (25 mm)
 O₂ 1-19% Control

BC50

535x705x430
 400x400x305
 50
 3
 60
 0.2
 0.1
 0.2 – 20
 0.2
 0.2
 > 0.7
 1.5
 < 95
 230
 Optional
 Yes
 No

BC190

850x765x600
 685x630x435
 190
 4/8
 60
 0.25
 0.1
 0.2 – 20
 0.2
 0.2
 > 0.7
 1
 < 95
 230
 Optional
 Yes
 Optional

CoolingCenter



SalvisLab Coolingcenter CIC150 is our solution for cooled incubation processes. Coolingcenter stands for incubation of microbiological cultures and for reproducible results in every routine test in the laboratory - especially by high batch throughputs during long-term operation. The CIC is built to last, in typical SalvisLab Swiss Quality. The exclusive EasyMenu controller from SalvisLab provides an uniform and constant level of temperature conditions at any and all location within the chamber. SwissTEQ, what else.

- SalvisTEQ Controller
- Precise temperature control
- High energy efficiency
- Real-time clock with process times
- Touchscreen
- Easy and user friendly operation



Options:

Additional memory
 Calibration certificate
 IQ/OQ draft paper, 3 hard copies
 Product temperature controller
 Program- and user package
 Redundant PT-100 probe

Accessories:

Wire shelves

**Coolingcenter CIC**

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (l)
 Shelves (standard/max.)
 Weight (kg)
 Temp. range (°C)
 Temp. variation at 5/25/37°C (±°C)
 Temp. fluctuation at 5/25/37°C (±°C)
 Heating-up time 23°C to 37 °C (in min.)
 Recovery time 37/50°C 5/25/37°C (door open for 30s, in min.)
 Voltage (±10%) 50/60 Hz (V)
 Heating power (W)
 Cooling power at 20°C (W)
 Idle power consumption 20/37°C (W)
 Coolant
 SalvisTEQ Controller
 Display
 Ports

CIC150

685x860x755
 490x495x595
 150
 2/13
 75
 +5 to +60
 0.4/0.4/0.4
 0.1/0.1/0.1
 5
 2/1/4
 230/115
 900
 200
 370/60
 R134a
 Yes
 Touch
 USB, Ethernet

Cleaner



SalvisLab laboratory glass cleaning machines are the ideal solution for the treatment of dirty glassware. They were designed as a under-bench or as free-standing model. Quiet and efficient washing is possible simultaneously on two independent levels. Through constant innovation our laboratory glass cleaning machines meet the highest level of development and guarantee constant reproducible cleaning results. SalvisLab guarantees great flexibility, compatibility and individuality in the selection of the washing baskets. All of our cleaning machines are made of stainless steel.

- Efficient washing or drying with jet pipe racks on two levels
- Individually configurable jet pipe racks
- Direct coupling of the jet pipe racks on the rear wall
- Temperature control through two independant sensors (PT 1000)
- Two dosing pumps
- LCD-Display
- 20 pre-programmed cycles and 20 custom, user programmable cycles
- USB interface



Washers and Dryers

	SCD1160	SCD1190	SCD G60
External dimensions (WxHxD) in mm	600x850x630	900x850x630	600x850x630
Internal volume (l)	171	171	171
Voltage +/- 10% (V/kW)	400/5.6	400/5.6	400/5.6
Storage compartment for liquid detergent	No	Yes	No
Max. washing/drying temperature (°C)	93	93	93
Dosing pump (standard/optional)	2/1	2/1	2/1
Air filter (optional HEPA)	Class 5F (H14)	Class 5F (H14)	Class 5F (H14)
Recirculation pump (l/min)	400	400	400
Air capacity of dryer (m³/h)	150	150	150

Washer

	SC1160
External dimensions (WxHxD) in mm	600x850x630
Internal volume (l)	171
Voltage +/- 10 % (V/kW)	400/5.6
Storage compartment for liquid detergent	No
Max. washing temperature °C	93
Dosing pump (standard/optional)	2/1
Recirculation pump (l/min)	400



Dryer

	SD1060
External dimensions (WxHxD) in mm	600x850x630
Internal volume (l)	171
Voltage +/- 10% (V/kW)	230/2.0
Drying programs (standard/custom)	2/1
Max. drying temperature (°C)	85
Drying power (kW)	1.5
Air capacity of dryer (m³/h)	150



HeatingCenter



SalvisLab Heatingcenter HC 120 is a heating cabinet especially designed for hospitals, nursing homes, spa's and fitness centres. A multitalent to warm up towels, scrubs, baby bottles and bath towels, etc.





Heatingcenter

External dimensions (WxHxD) in mm
 Internal dimensions (wxhxd) in mm
 Internal volume (L)
 Shelves
 Temp. range 10°C oRt to (°C)
 Idle power consumption at 50°C (W)

HC120

550x760x500
 480x610x435
 120
 2
 80
 65

MixCenter



SalvisLab Mixcenter assist you in daily laboratory work with the appropriate device. The magnetic stirrer is available in a classic and in a digital version, both versions can be heated. Even thermally demanding tasks can be mastered easily.

- Precise temperature control
- Ideal for thermally demanding tasks
- PC-Control



Options:

Carrying plate, blue
 External PT-1000 temperature probe
 Fixed ring, blue
 Quarter pie, black
 Quarter pie, blue
 Quarter pie, gold
 Quarter pie, green
 Quarter pie, purple
 Quarter pie, red
 Support clamp for PT-1000
 Reaction block for 50ml round bottom flask
 Reaction block for 100ml round bottom flask
 Reaction block for 250ml round bottom flask
 Reaction block for 500ml round bottom flask

Stirrer bar (10mm x 6mm)
 Stirrer bar (15mm x 8mm)
 Stirrer bar (20mm x 8mm)
 Stirrer bar (25mm x 8mm)
 Stirrer bar (30mm x 6mm)
 Stirrer bar (40mm x 8mm)
 Stirrer bar (50mm x 8mm)
 Stirrer bar (65mm x 8mm)
 Stirrer bar (80mm x 13mm)
 Stirrer bar remover

Accessories:

Wire shelves



Mixcenter

MC35

MC350

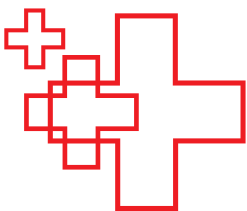
Voltage (V)	200-240	200-240
Power (W)	530	550
Max. stirring Volume (l H ₂ O)	20	20
Plate (Ø mm)	135	135
Plate material	Ceramic coated	Ceramic coated
Speed	0-1500	100-1500
Speed adjustment	analog	digital
Temp. range approx. >5°C oRt to (°C)	350	350
RS-232 port	No	Yes
Safety class	IP 42	IP 42

Rotkreuz

Renggli AG
Industrie-Ost
CH-6343 Rotkreuz
Switzerland
T +41 (0)41 798 14 14
sales@renggli.com

Lausanne

Renggli Installations de
Laboratoires SA
Rue de Genève
CH-1004 Lausanne
Switzerland
T +41 (0)21 636 22 19
sales@renggli.com



SwissTEQ

salvisLAB

by renggli

renggli

Laboratory
Systems