

SalvisLab Thermocenter – Heating Technology with Swiss Precision



swiss made +

salvisLAB

The door leading to designed temperature

SalvisLab Thermocenter TC40 and TC100

The special characteristic of this multi-functional dry and heat cabinet is found in its unique and patented system named «All in door». This Swiss development provides the TC40 and the TC100 with some important advantages in comparison with units of conventional design with a temperature range of up to +200°C.

■ Compact and versatile

The «All in door» system is responsible for making the TC40 and the TC100 some of the most compact units in their volume class. First and foremost, the system guarantees full versatility in terms of chamber equipment. Through-leads are feasible almost anywhere.



■ Swiss quality and design

SalvisLab Thermocenters are setting standards in quality as well as in design. The units are manufactured in proud Swiss quality according to ISO9001 standards and excel through precision, dependability and design.

■ **Tight and economical**

Special insulation technology applied with the TC40 and TC100 keeps heat where it belongs, namely on the inside. The easily removed and cleaned door seal provides excellent tightness at the critical point, namely the transition from housing to front cover. Low energy consumption is guaranteed.



■ **Broad application spectrum**

The TC40 as well as the TC100 are ideally suited for applications in research and industry.



■ **«All in door» system**

All technical components (heater, ventilation and control) are located within the door. The door is fastened to the housing by four screws and may easily be removed. Thus, maintenance becomes child's play and maintenance cost become negligible.



Safety all around

■ Dual layer safety

A safety controller monitors the function of the main controller and prevents temperature overrun of preset values. In addition, a mechanical maximum temperature safety device will cut off the entire unit in case of need. Unmanned operation of the units is permitted on the basis of this double layer safety system and in conjunction with the integrated acoustic alarm system.

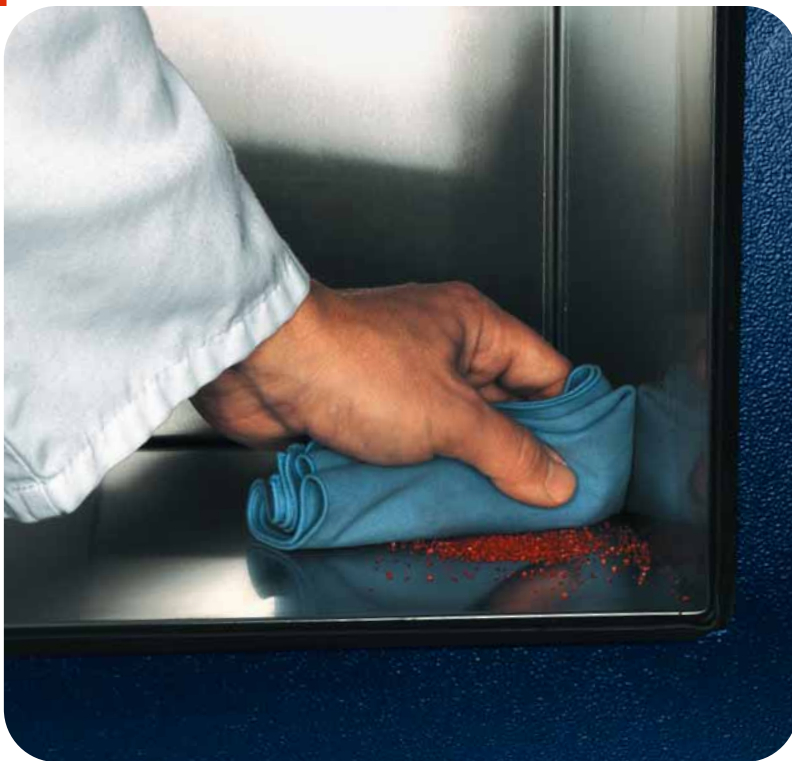
■ Safety through cleanliness

SalvisLab Thermocenters are a well-rounded affair. All transitional points between walls, ceiling and chamber bottom are conveniently rounded, thus promoting easy cleaning.



■ Safety through precision

You determine the desired temperature and the SalvisLab Thermocenter keeps it with great precision – in every corner of the payload area over the entire predetermined cycle time.



■ Safety through tightness

The door seal of the SalvisLab Thermocenter is easy to clean and provides absolute tightness. It prevents heat loss as it also keeps vapours and gases from escaping.

Exact process control



■ All is under control with the SalvisLab EasyMenu

The EasyMenu developed by SalvisLab enables intuitive programming of the SalvisLab Thermocenters. In just a few easy steps, temperature gradients, timing, temperatures and air throughput may be determined. The LCD display keeps you informed with all the desirable data over the entire process cycle.

■ We understand each other

SalvisLab Thermocenters are at home anywhere in the world. All our units are fluent in five major languages.



■ Programmable independence

Fifty programs at 15 program steps each (one gradient, one temperature setting, one turbine RPM indication and one time interval per step) may be stored with a max. program duration of 999 hours. The integrated real time clock simplifies programming. In case of power failure, the programs remain in memory.

■ Communications interface

The standard bi-directional RS232 interface (or optional RS422) enable connection of exterior equipment for programming and evaluation.



Precise temperature at any location

SalvisLab Thermocenter TC160, TC240, TC400

■ Intelligent air exchange

The large type SalvisLab Thermocenters feature air turbines and heater elements located in back of the housing. Air exchange is accomplished by means of the IntelliFan control unit.

■ Precision all the way, even to the last corner

Also the large type SalvisLab Thermocenters are dependable and precise in their temperature distribution characteristics even to the last corner and up to + 275°C.





■ **Precise temperature characteristics**

The PT100 temperature sensor guarantees precise temperature characteristics exactly as required by the programmed defaults. The units are provided with a lead-through hole (dia. 6 mm) for installation of additional temperature sensors or electric cables.



■ **Durable innards**

The Thermocenters as well as the grid shelves are made of high quality stainless steel. This assures solid resistance against aggressive substances, thus making for long service life.

■ **Unimpeded versatility**

The unimpeded versatility in terms of loading options of the chamber opens new horizons of applications for research and industry. SalvisLab Thermocenters are proven hundredfold in applications for drying of solid substances e.g. for aging tests, in conventional as well as in high tech applications.



■ **Large load capacity**

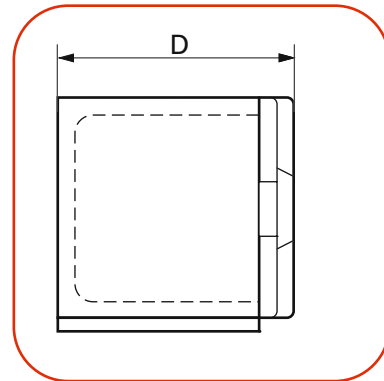
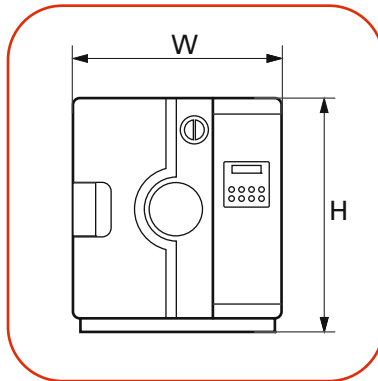
Standard equipment consists of two grid shelves. They are designed for high payload. Due to the grid design, airflow remains unimpeded.



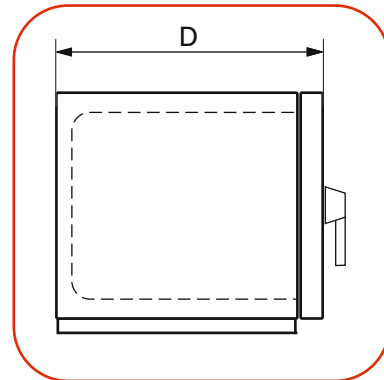
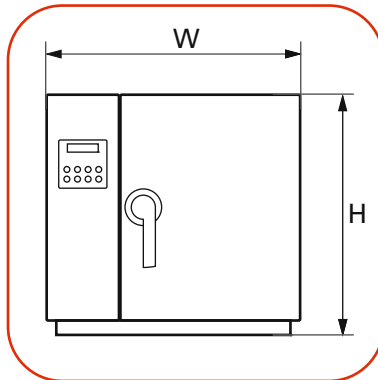
salvis LAB

Technical Data SalvisLab Thermocenter

TC40/TC100



TC160/240/400



Technical Data's Thermocenter

	TC40	TC100	TC160	TC240	TC400
Useable volume (l)	40	100	160	240	400
Max. Temperature (°C)	200	200	275	275	275
Outside dimensions (WxHxD) in mm	460 x 490 x 526	570 x 620 x 656	800 x 720 x 680	890 x 820 x 720	990 x 920 x 900
Inside dimensions (wxhxd) in mm	340 x 370 x 330	450 x 500 x 460	535 x 580 x 475	625 x 680 x 515	725 x 780 x 695
Weight (kg)	30	50	66	78	120
Shelves (standard/max.)	1/8	1/8	2/8	2/8	2/10
Shelf load max. (kg)	20	20	26	20	15
Voltage, ± 10% (V)	230/115	230/115	230/115	230/115	230/115
Temperature variation at 100°C (±°C)	1.0	1.0	2.0	2.5	2.5
Temperature fluctuation at 100°C (±°C)	0.1	0.1	0.2	0.2	0.2
Microprocessor PID controller	•	•	•	•	•
Alphanumeric LCD display illuminated	•	•	•	•	•
Programming	•	•	•	•	•
- Programs x steps	50 x 15	50 x 15	50 x 15	50 x 15	50 x 15
- Temperature, time, gradient	•	•	•	•	•
Timer (h)	999	999	999	999	999
RS232/RS422 interface	•/opt	•/opt	•/opt	•/opt	•/opt
Safety class	9.1	3.1	3.1	3.1	3.1

Note: technical data subject to change without prior notice.

swiss made +



Manufacturer:
 Renggli AG
 Industrie-Ost
 CH-6343 Rotkreuz (Switzerland)
 Phone +41 (0)41 798 14 14
 Fax +41 (0)41 798 14 40
 salvislab@renggli.com
 www.salvislab.com