VDW
Crucial Temperature Solutions

MICRO CLIMA-SERIES™

(COOLED) INCUBATORS AND WALLS

SNIJDERS LABS

(COOLED) INCUBATORS AND WALLS

The base for the development of this new line of (Cooled) Incubators comes from years of manufacturing experience with advanced climate and low temperature systems.

The incubators have been developed from a practicalpoint of view, easy to control, quiet, safe and durable. Each incubator is tested for performance and quality over at least 2 weeks before it leaves the production process ready for shipping.

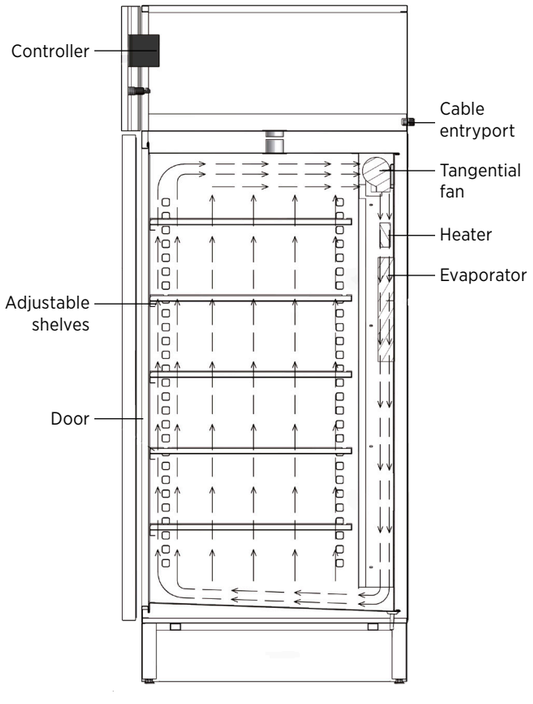
EXTERIOR

A modern design in combination with an extremely strong box frame construction. Finished with a scratch proof epoxy coating, colour grey-white RAL 9010. Standard mounted on adjustable legs.

INTERIOR

The interior is made of high quality, easy to clean stainless steel (DIN 1.4301). The use of a tangential fan in the return air maintains the highest temperature uniformity possible. A lockable entry port, water drain and height adjustable stainless steel platforms are fitted as standard.

Fig. 1 Aircirculation



CONDITIONING

A powerful, but energy saving, climate system for heating and cooling guarantees a high temperature stability and fast temperature recovery. The tangential fan in the return air guarantees the temperature uniformity. The use of this type of fan helps ensure that the same conditions are reached at every point within the chamber removing cold spots and hence condensation within the entire chamber

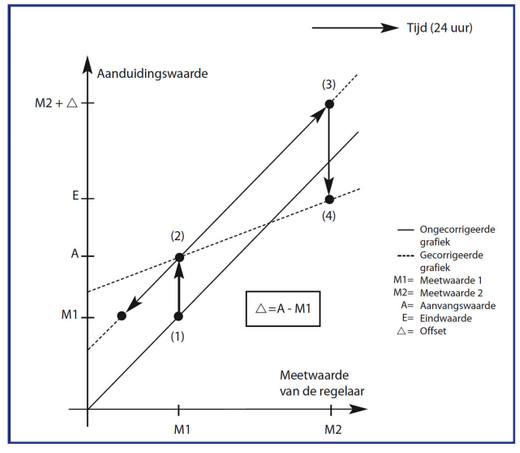
FLEXIBILITY

All incubators can be delivered with or without cooling. All models can be installed side by side to form an incubator wall. Practical division for each application within the chamber is also possible, e.g by height adjustable platforms or a drawer system mounted on telescopic arms.

EFFECTIVITY

Sustainability, environmental friendly and lower energy usage were the keyword issues in the development of the incubator range. In other words as low a carbon footprint as possible. This for example has been achieved by using durable material sourced from European suppliers only and efficient cooling using a bypass system, driven by the latest energy saving compressors. The slim line design optimizes capacity within the chamber while maintaining a small footprint on the laboratory floor.

Fig. 2 Configuration: linear calibration

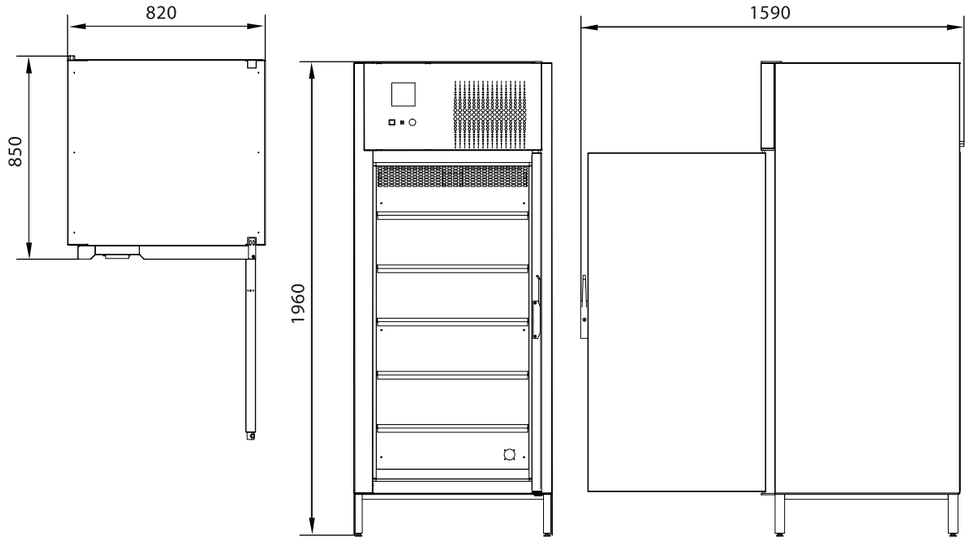


TEMPERATURE CONTROLLER

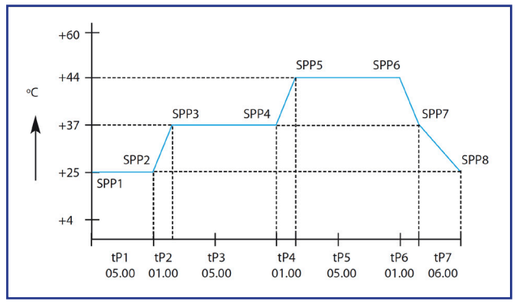
The controller displays temperature and time digitally and can be programmed in 8 Temperature Setpoints (TS-1 upto TS- 8) in association with 8 Time-units (T-1 upto T-8). The temperature is linear and hence ensures the tightest possible control of temperature over the entire temperature range (Fig. 3) By installing additional software it is also possible to link multiple incubators together for remote monitoring and control. External temperature alarms are routed via a potential-free contact or a SMS alert system over the internet.

SAFETY

Various safety features have been built-in for the protection of the product within the incubator. Firstly there is an alarm activated from within the controller if the band width is exceeded by +/- 5°C from set. Secondly there are backup safety thermostats for both high and low temperatures. All alarms are acoustic and optical.



Program example



AUTO DEFROST

In durability tests longer than 24 hours and below +4°C, an auto defrost has to be used to avoid ice forming on the evaporator. The frequency, temperature and length of time for the auto defrost system is adjustable. The settings for the defrost cycle(s) are dependent on the required set temperature for the chamber and the usage of the incubator.

ANTI-CONDENSATION SYSTEM

Desiccation occurs when humidity is drawn, for example, from the media in a Petri dish due to a “cold spot” where it condenses out of the atmosphere. The unique Snijders anti condensation system eliminates the potential for “cold spots” inside the working area and hence avoids desiccation. This system consigns the problem of desiccation to history.

(COOLED) INCUBATORS AND WALLS
TECHNICAL SPECIFICATIONS

DESCRIPTION	INCUBATOR BR1	INCUBATOR BR2	COOLED INCUBATOR EB1-N / EB1-D	COOLED INCUBATOR EB2-N / EB2-D
Nett volume	494 liter	(2x) 231 liter	494 liter	(2x) 231 liter
Gross volume	576 liter	(2x) 269 liter	576 liter	(2x) 269 liter
Material internal	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material external	Coated steel	Coated steel	Coated steel	Coated steel
Insulation	Polyurethane	Polyurethane	Polyurethane	Polyurethane
External dimensions, (wxdxh)	820x855x1960 mm	820x855x1960 mm	820x855x1960 mm	820x855x1960 mm
Internal dimensions (wxdxh)	635x600x1295 mm	(2x) 635x600x605 mm	635x600x1295 mm	(2x) 635x600x605 mm
Platform dimensions, (bxd)	625x580 mm	625x580 mm	625x580 mm	625x580 mm
Minimal transportation (wxdxh)	820x775x1945 mm	820x775x1945 mm	820x775x1945 mm	820x775x1945 mm
Platforms standard / max. quantity	5/29	(2x) 2/10	5/29	(2x) 2/10
Distance between platforms	40 mm	40 mm	40 mm	40 mm
Entry port Ø	45 mm	45 mm	45 mm	45 mm
Timer within controller	Digital	Digital	Digital	Digital
Controller	Electronic PID	Electronic PID	Electronic PID	Electronic PID
Temperature sensor	PT100	PT100	PT100	PT100
Temperature safety	Adjustable by high temperature thermostat with separate PT100 sensors	Adjustable by high temperature thermostat with separate PT100 sensors	Adjustable by high temperature thermostat with separate PT100 sensors	Adjustable by high temperature thermostat with separate PT100 sensors
Auto defrost	No	No	Optional	Optional

SPECIFICATIONS (DIN 12880)				
Temperature range, in °C	(Tamb. +8°C) tot +60	(Tamb.+8°C) tot +60	+4 tot +60 / -10 tot +60	+4 tot +60 / -10 tot +60
Temperature setting, in °C	0,1	0,1	0,1	0,1
Temperature fluctuation, in °C	≤ 0,2 (at 1 spot)	≤ 0,2 (at 1 spot)	≤ 0,2 (at 1 spot)	≤ 0,2 (at 1 spot)
Temperature variation, in °C	≤ 0,5 (in chamber)	≤ 0,5 (in chamber)	≤ 0,5 (in chamber)	≤ 0,5 (in chamber)
Airflow m/s	0,2	0,2	0,2	0,2

GENERAL				
Rotation point of the door	Left or right (at the right= ex works)	Left or right (at the right= ex works)	Left or right (at the right= ex works)	Left or right (at the right= ex works)
Lockable	Grip incl. cylinder lock	Grip incl. cylinder lock	Grip incl. cylinder lock	Grip incl. cylinder lock
Legs	30 x 40 mm, adjustable, height 150 mm	30 x 40 mm, adjustable, height 150 mm	30 x 40 mm, adjustable, height 150 mm	30 x 40 mm, adjustable, height 150 mm
Power supply	220-240V; 50 Hz.	220-240V; 50 Hz.	220-240V; 50 Hz.	220-240V; 50 Hz.
Nett weight / kg	196	209	224	237

*Specifications subject to change

SNIJDERS LABS: EXPERIENCED INNOVATORS

SNIJDERS LABS forms part of the Snijders Group, which actively delivers equipment and products for scientific research & development as well as internal transport systems and examination couches for the health care sector under SNIJDERS CARE. All design, manufacture and testing is held in house to assure high quality production and investment in new technologies for the production of all Snijders products. The total control of the manufacturing line means that Snijders can offer total quality, in-depth knowledge and detailed assistance to all of their clients.

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SERVICE AND WARRANTY

Contact your local distributor who will guarantee quality and service (if necessary check our website for distributor details).

VISIT OUR WEBSITE WWW.SNIJDERSLABS.COM

There you'll find all the latest information about:

- ULT freezers (-86°C) with datasheets of any type, racking systems, boxes and other accessories
- a variety of climate cabinets for plants, seed germination, fungi, snails and insects research with temperature-, light- and humidity control
- (cooled) incubators and incubator walls, designed for general microbiological research of among others food, water and medical laboratories.

SNIJDERS LABS

Office and Production
Laurent Janssensstraat 105
5048 AR Tilburg
The Netherlands

Showroom and Testfacility
Gebroeders Salastraat 40
5048 AL Tilburg
The Netherlands

T +31 13 750 15 55
F +31 13 463 86 35

info@snijderslabs.com
www.snijderslabs.com