Quality

Built on Tradition

Summary  Range of Laboratory Products
Toughest Demands on Technique, Solutions made by GFL

Upright Freezer, 500 litres, special make with two standard compartments and large drawer made of stainless steel with perforated raised side elements and a 10 mm thick insulating plastic cover with grip hole. Storage system for test plates and boxes.

Upright Freezer, 500 litres, with three additional shelves and storage system (accessories).

Upright Freezer, 500 litres, special make with five inside compartments and inside doors made of 10 mm thick acrylic glass, with grip hole. Storage system for test plates and boxes.

Clamping rails for tubes, for Shakers (special make), to be fixed on a tray.

Profiled rails for syringes, for Shakers (special make), to be fixed on a tray.

Horizontal clamping device for 4 test tube racks, for Shakers (special make), to be fixed on a tray.
Material and Design

For more than 50 years, we have been producing “Quality Built on Tradition” in Germany.

Users in research labs, standard and special labs for medicine, science and industry benefit from the precision and reliability of our products in more than 150 countries worldwide.

In every-day laboratory practice there is an increasing demand for alternative product solutions, meeting our customers’ requirements for practice-oriented functionality and flexibility.

We, therefore, offer special makes and a wide range of accessories for tasks requiring special solutions. For examples see left.

GFL products comply with valid European standards, bear the CE and EAC marks, they are maintenance-free and easy to operate. Convincing not only through clearly arranged controls and displays, but also through easy-to-understand operation symbols, they stand for experience of every-day use in detail, continuous technical advances and toughest demands on material, functioning and design.

Our product quality always includes a solid proportion of high-quality craftsmanship.

Our corporate policy encompasses an integral approach to quality, including a high degree of ready-and-waiting service as well as certified quality management.
Deep Freezers

to protect and permanently safeguard organic substances. Excellent reliability and sample security. Long thawing times – effective insulation. Controlled access – Door / lid and control panel can be locked. Swivel castors for easy transport.

12 Chest Freezers with 6 different cabinet sizes (30 l - 500 l) and 6 Upright Freezers with 3 different cabinet sizes (96 l, 300 l and 500 l). Temperature ranges from 0 °C to -40 °C and -50 °C to -85 °C.

Microprocessor-controlled temperature regulation with digital display.

RS 232 interface.

Standard electronic alarm device and potential-free contact for remote transmission of an alarm signal.

Over and under-temperature alarms separately adjustable (1-20 K).

Additional control and alarm options, individually settable.

Accumulator back-up for display and alarm functions.

Maintenance-free cooling device with fully hermetic high-capacity compressors.

Evenly thick all-around insulation of up to 150 mm.

Ex-proof inside cabinet, made completely of stainless steel.

Wide range of accessories, various storage systems and customised special makes.

Upright Deep Freezer with natural coolants (hydrocarbons)

Model 6687
Temperature range -50 °C to -85 °C

Cabinet size 700 l, offering space for 500 2´´-boxes

Vacuum insulation panels with foamed-in-place polyurethane

Excellent thawing times

Eco-friendly and fit for the future. Vacuum insulation ensuring improved sample security. Controlled access – door can be locked. Swivel castors for easy transport.

Model 6687 offers 40 % more storage capacity while having the footprint of a 500 l Upright Freezer and includes smart details:

Five inner compartments having insulated inside doors with magnetic catches

Height-adjustable, perforated shelves offering flexible storage space

Long-ledge stainless steel grip bars, ergonomic door handle

Wide range of accessories, various storage systems and customized special makes.

Further Upright Freezers (96 l, 300 l, 500 l) and Chest Freezers (70 l, 100 l, 220 l, 300 l, 500 l) with natural coolants are available.
Comfortable, logic operation. Excellent sample security.

The new generation of Incubation and Inactivation Water Baths includes 8 models with different capacities of 4 to 41 litres. Models 1112 and 1113 with circulation system.

The new controller offers numerous additional functions:
- Large high-contrast TFT colour display
- Menu-guided operation
- Enhanced visual and acoustic alarms for more sample security
- Process-specific temperature adjustment
- Temperature display either in °C or °F.
- Microprocessor-controlled temperature regulation up to 100°C (boiling mode), temperature constancy ±0.1 °C temporal at 50 °C
- Interior made of stainless steel
- Direct heating system for short heating-up times
- Lid and perforated floor are standard

Electronic function control of the temperature controller
- Two independently working over-temperature protections
- Double-walled, insulating arched lid to prevent condensate dripping back into vessels
- Drain cock at the back

Accessories of the existing Water Baths range 1002 to 1008 and 1012 / 1013 are compatible with the new Water Baths.

Comprehensive range of accessories and customised special makes allow versatile applications.

Steam Baths, Water Baths for fume hoods and Multiple Water Baths

Comfortable operation.

Product range for gentle steaming from Erlenmeyer flasks and beakers, also for fume hoods (digestories).

Equipped with heat-resistant multi-part ring sets made of plastic material, suitable for a variety of vessels

Fully equipped with adjustable water level regulator and over-temperature cut-out

Choose between 5 models with one, four, six or eight opening(s).

Tissue Float Bath

Low-priced and proven.

Special bath for stretching and drying cut tissues.

Comfortable and safe working owing to the low bath height of 100 mm

Optimum visibility of the samples in the black, anodized bath

Broad, warmed rim for careful drying of cut tissue samples.
Orbital, Reciprocating, Orbital Rocking and Rocking Shakers

Analogue or digital (microprocessor-controlled, optional RS 232 interface) control
Extremely silent operation, gentle start-up
Switchable between continuous and timed operation up to 60 minutes and / or 99:59 hours (digital)
Clearly arranged control panel for easy operation
Constant shaking frequency, even when in continuous operation
Load between 8 and 30 kg
Comprehensive range of accessories for easy fixing of nearly all kinds of laboratory vessels. Customised special makes available.

Rotating Shaker
Variable and robust large-scale rotator for continuous operation.
Especially suitable for rotating shaking of sedimentation bottles, mixing cylinders and other vessels, for mixing of powdery, pasty or liquid samples.
Rotating rack with ball bearing, having four levels for three each bottles / vessels, round or angular, up to 110 mm Ø and 270 mm height
Clearly laid-out control panel for easy operation
Shaking frequency electronically adjustable up to 20 rpm, stepless
Constant shaking frequency when in continuous operation.

Shakers
15 models, 5 different motions.
Efficient and durable.
Compact, durable mechanism for reliable continuous operation.

Shaking Water Baths
Efficient and robust.
Excellent temperature constancy of ±0.1 °C temporal.
Easily removable shaking rack.
For exact temperature control procedures with gentle mixing or vigorous shaking.
2 models with reciprocating motion, 1 model with orbital motion
Microprocessor-controlled temperature regulation
Temperature range up to max +99.9 °C, depending on the model
Digital temperature display
Two models with built-in cooling coil and shaking frequency display (reciprocating or orbital motion)
Interior and shaking rack made of stainless steel
Double-walled, insulating arched lid to prevent condensate dripping back into vessels
Constant shaking frequency, independent of load, also in continuous operation
Maintenance-free and durable shaking device
Double over-temperature cut-out, electronic and electro-mechanical
Comprehensive range of accessories and customised special makes allow versatile applications.

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**Shaking Incubators**
Reliable, durable mechanism.
Comfortable operation.
For applications requiring exactly reproducible orbital motions and temperature up to +70 °C.
3 models with 45, 46 and 150 l capacity
Microprocessor-controlled, PID type and RS 232 interface
Exact reproducibility of temperature, time and shaking frequency
Temperature constancy of ±0.2 °C temporal
Temperature range approx. 8 °C above ambient to +70 °C

**Water Stills**
Manual to fully automatic control.
For bench-top and/or wall mounting.
Maintenance-free and easy-care, without requiring frequent exchange of filters or cartridges.
Distillation of the heated cooling water, therefore low energy consumption of all models.
For production of ultra-pure, bacteria and pyrogen free distillate (DAB) with a very low conductivity.
4 product lines including 14 models for 2-12 litres of distillate per hour.
Practice-oriented accessories.

**Double Distillers**
3 fully automatic benchtop / wall-mounted units made of stainless steel / glass, without storage tank, capacity 2, 4 and 8 litres per hour
Excellent bi-distillate quality, conductivity approx. 1.6 µS/cm at 25 °C.

**Mono / Double Distillers made of glass**
3 fully automatic benchtop / wall-mounted units without storage tank for 2, 4 and 8 litres mono distillate per hour
2 models produce bi-distillate without storage tank, with capacities of 2 and 4 litres per hour
Excellent to superior bi-distillate quality due to extremely low content of metal ions, conductivity of mono distillate approx. 2.2 µS/cm at 25 °C, conductivity of bi-distillate approx. 1.6 µS/cm at 25 °C
Evaporators, condensers and overflows made of DURAN® / Borosilikatglas 3.3
Heating elements with quartz sheathing.
We produce in Germany.

- Chest Freezers
- Upright Freezers
- Water Stills
- Glass Water Stills
- Incubation Water Baths
- Steam Bath, Water Baths for fume hoods and Multiple Water Baths
- Tissue Float Bath
- Shaking Water Baths
- Shakers
- Rotating Shaker
- Shaking Incubators

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