The result of decades of experience and technical innovation: four individually applicable product ranges with 14 different models.
Quality built on Tradition

Users in research labs, standard and special labs for medicine, science and industry throughout the world have been profiting from the precision and dependability of our products for more than 45 years, all of which comply with valid European standards and bear the CE mark.

In the future, the success of a product spectrum of laboratory devices that meet the toughest demands on material, functioning and design will continue to be ensured by experience of every-day use in detail, ongoing technical advances and an excellent quality approach.

The phrase „Quality built on Tradition“ encompasses more than just the sum of impressive product innovations. It is also an expression of our corporate policy, which includes a high degree of ready-and-waiting service as our primary customer-friendly service goal.

This applies to all of the GFL laboratory products that are produced exclusively at our plant in Germany - Deep Freezers, Shakers, Shaking Water Baths, Water Baths, Incubators or Water Stills alike.

Secure future

A vested quality demand in accordance with international standards is documented for all GFL laboratory products with the certification to DIN EN ISO 9001:2008, promoting more trust in the permanent high quality level of our products.

In addition to the continuous optimisation of ongoing production processes, the ISO obligation also calls for the commitment to quality awareness of our employees and the continuous development and rapid implementation of preventive measures to ensure quality assurance at a high level.
Decades of experience and technical innovation have set the standards: GFL Water Stills produce ultra-pure, low-gas, bacteria and pyrogen free distillate with a very low conductivity. It is in conformity with DAB requirements and international pharmacopoeia regulations.

The conductivities for each model stated in this brochure are average values, determined by Institute Fresenius, for use with tap water, and are to be understood as approximate values. Depending on the quality of tap water, the conductivity obtained might easily be improved.

All over the world, four highly efficient GFL Water Still ranges are offered, comprising 14 different models with capacities of 2 – 12 litres per hour. The distillate is used in research and development, for instance in bacteriological and medical preparation of samples and for the preparation of cell and tissue cultures. It is also used for cleaning and sterilisation processes, for buffer solutions and for microbiological and analytical applications, especially for HPLC.

By distilling the heated cooling water, all units operate highly economically. They are reliable, maintenance-free, user and service friendly and have the CE mark.

Accessories shown in this brochure are not part of the standard scope of supply of the units. The right of constructional modifications remains reserved. Special makes are available.

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Water. The Origin of All life

Water is the origin of all life, an indispensable and irreplaceable natural product for man, beast and plant. Not only is water our most important food, it also possesses the highest solubility of all known substances, a discovery that led to the production of pure water through distillation (lat. destillare / drip down) probably as early as 5,000 years ago.

Pure water. On the art of distillation.

Distillation is the most effective and reliable way of producing pure water, the exceptional quality being that the only additive required is energy. Compared to other additives, such as e.g. adsorbents or solvents, energy can easily be added to and extracted from a system. Furthermore, Water Stills require very little maintenance. Apart from regular cleaning intervals they are completely maintenance-free.

The distillation process means the phase transformation of liquids (raw water: spring water, tap water or pretreated water) into steam and back to liquids. The transformation of liquids to steam separates effectively water from impurities having a higher boiling point than water. They remain as sediments in the condenser chamber (evaporator). The steam and some very few substances that have a lower or the same boiling point as water are brought to condensation.

Steam condensation produces distilled water, also called Aquadest (lat. aqua destillata). This “pure water” has a purity degree of approx. 99.5% regarding salts, organic substances, micro-organisms, pyrogens and bacteria. The pH value of the produced distillate turns slightly acidic when carbon dioxide from the environmental air dissolves in the distillate. Carbon dioxide is absorbed until a dynamic balance between water and environmental air develops. Pure water should, therefore, be used up quickly or stored under airtight conditions.

The conductivity of distillate mainly depends on the quality of raw water and the construction of the Water Still. By connecting a second distillation stage (bi distillation), respectively by using special materials in the Water Still (glass) the purity of the distillate can be further increased.
Compact and efficient

Product range 2001/2 and 2001/4 comprises two mono water stills without storage tank, for bench mounting, that produce two and four litres of distillate per hour. Their easy handling makes them an indispensable help in producing high-quality distillate.

Specifications and Features

- Good distillate quality, conductivity approx. 2.3 µs / cm at 25 °C
- For drainage and cleaning, evaporator is easily accessible by lifting the condenser. Material: stainless steel, material no. 1.4301
- Condenser (cooler) with baffle. Material: stainless steel, material no. 1.4301
- Heating element made of stainless steel, material no. 1.4876
- Thermostatic low water cut-off, to protect the heating element in case of low water
- Thermometer to display the temperature of the cooling water
- Energy-saving through distillation of the heated cooling water
- Distillate withdrawal through drain tube on the front of the unit
- Cooling water inlet and outlet on the right-hand side of the unit*
- Water connection: cooling water inlet 1/2 inch (inner Ø 12.7 mm), cooling water outlet 1/2 inch (inner Ø 12.7 mm)*
- Degassing of carbon dioxide through vent in the condenser
- Main switch with pilot lamp on the front of the unit
- Housing electrostatically powder-coated with epoxy resin
- Power connection through mains connection cable with German shock-proof type (Schuko) plug

Technical data

<table>
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<tr>
<th>Model Order No.</th>
<th>Capacity l / h</th>
<th>Cooling water requirement l / h approx.</th>
<th>Exterior dimensions mm approx.</th>
<th>Electrical connection*</th>
<th>Weight kg approx. net</th>
<th>Gross cardboard box</th>
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<td>2001/2</td>
<td>2</td>
<td>20</td>
<td>280 250 490</td>
<td>230 V / 50...60 Hz / 2.0 kW</td>
<td>7.5</td>
<td>10</td>
<td>0.10</td>
</tr>
<tr>
<td>2001/4</td>
<td>4</td>
<td>40</td>
<td>280 250 490</td>
<td>230 V / 50...60 Hz / 3.0 kW</td>
<td>7.5</td>
<td>10</td>
<td>0.10</td>
</tr>
</tbody>
</table>

* Other voltages available on request.

* Tubes for water inlet and outlet can be supplied as accessories.
Comfortable and reliable

Models 2002 – 2012 with automatic operation supply two, four, eight and twelve litres of distillate per hour, depending on the model type. The built-in distillate storage tank accepts double the hourly capacity of the Water Still. All models have successfully proved in every-day laboratory routine. They dispose of an electronic monitoring function which ensures a continuous production of distillate.

Specifications and Features

- good distillate quality, conductivity approx. 2.3 µs / cm at 25 °C
- heating element made of stainless steel, material no. 1.4876
- thermostatic low water cut-off, to protect the heating element in case of low water
- energy-saving through distillation of the heated cooling water

2004 Mono Water Still 4 l / h with built-in storage tank 8 l, for bench and wall mounting
degassing of carbon dioxide through vent in the top

evaporator with baffle is easily accessible by lifting the lids. Material: stainless steel, material no. 1.4301

storage tank for distillate accepts double the hourly capacity of the unit. Material: stainless steel, material no. 1.4301

condenser (cooling coil) in the storage tank, easily exchangeable. Material: stainless steel, material no. 1.4301

water supply through a built-in solenoid valve with connection for water pressure hose 1/2 inch (inner Ø 12.7 mm)*

cooling water pressure required: > 3 bar to max. 7 bar. After switching on the main switch the solenoid valve opens the water supply and closes it once the storage tank is full, thus avoiding unnecessary waste of water

cooling water outlet with hose connection 3/4 inch (inner Ø 19 mm). Water that has not been condensed flows off through the cooling water outlet*

distillate withdrawal through the drain cock on the front of the unit.

The drain cock can be opened in either continuous or touch position

an electronic level switch switches the still of f in case of high degree impurities in the evaporator, the red pilot lamp "Clean" will glow

drainage of the evaporator through drain cock on the right-hand side of the unit

main switch and pilot lamps (yellow pilot lamp for operation and red pilot lamp for cleaning) are on the front of the unit

double-walled housing. Housing is made of electrolytically galvanized sheet steel, electrostatically powder-coated with epoxy resin

power connection through connection cable; 2 and 4 litre units have German shock-proof type (Schuko) plug

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Technical data

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<tr>
<th>Model Order No.</th>
<th>Capacity I / h</th>
<th>Storage Contents / l</th>
<th>Storage tank requirement mm approx.</th>
<th>Exterior dimensions Width Depth Height mm approx.</th>
<th>Electrical connection*</th>
<th>Weight kg approx. net</th>
<th>Packing volume approx. m³</th>
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<tr>
<td>2002</td>
<td>2</td>
<td>4</td>
<td>30</td>
<td>540/290/420</td>
<td>230 V / 50...60 Hz / 1.5 kW</td>
<td>15.4</td>
<td>0.16</td>
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<tr>
<td>2004</td>
<td>4</td>
<td>8</td>
<td>48</td>
<td>620/330/460</td>
<td>230 V / 50...60 Hz / 3.0 kW</td>
<td>20.2</td>
<td>0.16</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>16</td>
<td>72</td>
<td>780/410/540</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 6.0 kW three-phase current</td>
<td>30.7</td>
<td>0.34</td>
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<tr>
<td>2012</td>
<td>12</td>
<td>24</td>
<td>198</td>
<td>780/410/670</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 9.0 kW three-phase current</td>
<td>43.0</td>
<td>0.48</td>
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</table>

* Other voltages available on request

* Tubes for water inlet and outlet can be supplied as accessories.
Operation and Service Friendly

Double Distillers 2102 – 2108 are produced of a material combination of stainless steel / glass, without storage tank. Operating fully automatic, they produce two, four or eight litres of distillate per hour, depending on the model.

A stop valve made of Borosilicate glass 3.3 enables mono distillate to be withdrawn

2104 Double Distiller 4 l / h, for bench and wall mounting
Specifications and Features

- excellent distillate quality, conductivity of mono-distillate approx. 2.2 µs/cm at 25 °C; conductivity of bi-distillate approx. 1.6 µs/cm at 25 °C
- evaporator and baffle of the mono stage are easily accessible by lifting the condensers. Material: stainless steel, material no. 1.4301
- condensers (coolers):
  1st stage made of stainless steel, material no. 1.4301;
  2nd stage including baffle made of DURAN® / Borosilicate glass 3.3
- heating elements made of stainless steel, material no. 1.4876
- water supply through built-in solenoid valve with connection for water pressure hose 1/2 inch (inner Ø 12.7 mm)*
- required cooling water pressure: > 3 bar to max. 7 bar. After switching on the main switch the solenoid valve opens the water supply
- cooling water outlet with hose connection 3/4 inch (inner Ø 19 mm). Water that has not been condensed flows off through the cooling water outlet*
- energy-saving through distillation of the heated cooling water
- distillate withdrawal:
  stop valve made of Borosilicate glass 3.3 with PTFE plunger for mono distillate, outlet with dust guard shield made of Borosilicate glass 3.3 for bi-distillate
- low water cut-off: float switch and thermostatic over-temperature cut-out
- an electronic impurity detector switches the unit off in case of high degree impurities in the 1st stage evaporator, the red pilot lamp “Clean” will glow
- degassing of carbon dioxide through vent on the condensers
- main switch and pilot lamps to monitor both distillation stages are on the front of the unit
- two-part housing made of electrolytically galvanized sheet steel, electrostatically powder-coated with epoxy resin; upper part easily removable through quick-release catches
- power connection through connection cable

Technical data

<table>
<thead>
<tr>
<th>Model Order No.</th>
<th>Capacity l / h</th>
<th>Cooling water requirement l / h approx.</th>
<th>Exterior dimensions mm approx. Width Depth Height</th>
<th>Electrical connection*</th>
<th>Weight kg approx. net</th>
<th>Packing volume gross carton packed on pallet m³</th>
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</thead>
<tbody>
<tr>
<td>2102</td>
<td>2</td>
<td>72</td>
<td>500 260 470</td>
<td>230 V / 50...60 Hz / 3.5 kW three-phase current</td>
<td>20.9</td>
<td>0.62</td>
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<tr>
<td>2104</td>
<td>4</td>
<td>120</td>
<td>550 280 570</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 7.0 kW three-phase current</td>
<td>27.5</td>
<td>0.67</td>
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<td>2108</td>
<td>8</td>
<td>198</td>
<td>700 390 700</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 11.5 kW three-phase current</td>
<td>44.6</td>
<td>0.92</td>
</tr>
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</table>

* Other voltages available on request

Tubes for water inlet and outlet can be supplied as accessories.
Excellent Quality and Technology

Due to their extremely low content of metal ions in the distillate our Glass Water Stills count among the top-end products in the market.

GFL produces a range of five fully automatic models.

Three models produce mono distillate of two, four and eight litres / hour. For bi-distillation, we offer two models with capacities of two and four litres per hour.

Specifications and Features

► excellent distillate quality, conductivity of mono distillate approx. 2.2 µs / cm at 25 °C; conductivity of bi-distillate approx. 1.6 µs / cm at 25 °C
► water supply through built-in solenoid valve with connection for water pressure hose 1/2 inch (inner Ø 12.7 mm) *
► required cooling water pressure: > 3 bar to max. 7 bar. After switching on the main switch the solenoid valve opens the water supply
► cooling water outlet with hose connection 1/2 inch (inner Ø 12.7 mm).

Water that has not been condensed flows off through the cooling water outlet.

► degassing of carbon dioxide through a vent on the condenser
► main and function switches as well as pilot lamps for monitoring are on the front of the unit
► distillate withdrawal at the right-hand side of the unit through hose connection *
► visible distillation process through easily removable, unbreakable front screen that does not steam up
► housing made of electrolytically galvanized sheet steel, electrostatically powder-coated with epoxy resin

Specifications and Features

Water level control in the condenser with automatic power cut-off in case of water shortage

► electronic impurity detector induces automatic water change to rinse and clean the evaporator

Technical data

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<th>Capacity l / h</th>
<th>Cooling water requirement I / h approx.</th>
<th>Exterior dimensions mm approx. Width Depth Height</th>
<th>Electrical connection*</th>
<th>Weight kg approx.</th>
<th>Packing volume approx. m³</th>
</tr>
</thead>
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<td>2202 Mono</td>
<td>2</td>
<td>48</td>
<td>650 200 390</td>
<td>230 V / 50...60 Hz / 1.5 kW</td>
<td>16</td>
<td>22.0</td>
</tr>
<tr>
<td>2204 Mono</td>
<td>4</td>
<td>96</td>
<td>650 200 390</td>
<td>230 V / 50...60 Hz / 3.0 kW</td>
<td>17</td>
<td>22.0</td>
</tr>
<tr>
<td>2208 Mono</td>
<td>8</td>
<td>144</td>
<td>650 365 390</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 6.0 kW three-phase current</td>
<td>24</td>
<td>30.0</td>
</tr>
<tr>
<td>2302 Bi</td>
<td>2</td>
<td>96</td>
<td>650 365 390</td>
<td>230 V / 50...60 Hz / 2.9 kW</td>
<td>24</td>
<td>30.5</td>
</tr>
<tr>
<td>2304 Bi</td>
<td>4</td>
<td>144</td>
<td>650 365 390</td>
<td>400 V / 3ph/N/PE / 50...60 Hz / 5.8 kW three-phase current</td>
<td>24</td>
<td>31.5</td>
</tr>
</tbody>
</table>

* Tubes for water inlet and outlet can be supplied as accessories.

* Other voltages available on request.
The fully automatic functions "Clean" and "Sterilising" can be induced manually on the control panel.
Accessories / Pretreatment

**Dechlorite Filter**
Eliminates chlorine particles in the tap water added by the local water works. Complete with connections for pressure hose 1/2 inch (*inner Ø 12.7 mm*), including first filling. The filling should be exchanged every six months.
* Tubes for water inlet and outlet are not included in the standard scope of supply

Order No. 2904

Spare Filling for Dechlorite Filter
Order No. 2905

**Phosphate Cartridge**
Prevents scale formation in the condenser by phosphatising the tap water. Can be used from 4-15°dH (German hardness). Complete with connections for pressure hose 1/2 inch (*inner Ø 12.7 mm*), including first filling. The filling should be replaced according to the consumption.
* Tubes for water inlet and outlet are not included in the standard scope of supply

Order No. 2906

Spare Filling for Phosphate Cartridge
Order No. 2907

**Pre-Filter 1 µm**
For pre-cleaning the tap water, and to protect the unit from premature contamination. Food safe according to FDA regulations. Complete with connections for pressure hose 1/2 inch (*inner Ø 12.7 mm*), including filter candle. The candle should be replaced every six months.
* Tubes for water inlet and outlet are not included in the standard scope of supply

Order No. 2912

Spare Candle for Pre-Filter
Order No. 2913

**Wall Bracket**
For one filter, with screws to fix the filter to the wall bracket

Order No. 2921

Wall Bracket for two filters, with one sleeve to connect the filters and screws to fix the filters to the wall bracket

Order No. 2922

Wall Bracket for three filters, with two sleeves to connect the filters and screws to fix the filters to the wall bracket

Order No. 2923

**Accessories for Order Nos. 2904, 2906, 2912**

**Order Nos. 2901/2-2001/4, 2002-2012, 2102-2108, 2202-2304**

**Order Nos. 2901/2-2001/4, 2002-2012, 2102-2108, 2202-2304**

**Order Nos. 2901/2-2001/4, 2002-2012, 2102-2108, 2202-2304**

**Order Nos. 2901/2-2001/4, 2002-2012, 2102-2108, 2202-2304**

**Order Nos. 2901/2-2001/4, 2002-2012, 2102-2108, 2202-2304**
Connection Variants for Pre-Filter, Dechlorite Filter and Phosphate Cartridge

Dechlorite Filter
Order No. 2904

or

Phosphate Cartridge
Order No. 2906

or

Pre-Filter
Order No. 2912

Stop valve mains water supply, on-site

Phosphate Cartridge
Order No. 2906

← Dechlorite Filter
Order No. 2904

or

Phosphate Cartridge
Order No. 2906

← Pre-Filter
Order No. 2912

or

Dechlorite Filter
Order No. 2904

← Pre-Filter
Order No. 2912

Stop valve mains water supply, on-site

Phosphate Cartridge
Order No. 2906

← Dechlorite Filter
Order No. 2904

← Pre-Filter
Order No. 2912

Stop valve mains water supply, on-site

Dechlorite Filter
Order No. 2904

← Pre-Filter
Order No. 2912

Stop valve water supply with pretreated water, on-site

Water Still

Tap water supply

Water Still

Inlet separate water supply

The connection sequence must by all means be observed
Accessories

2001/2 - 2001/4

Hose Set
consisting of hoses for water inlet and outlet (1.5 m) and hose clips

Order No. 2940

2002

Separate Water Supply
to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water.

The pretreated water is not switched off automatically when the storage tank is full.
Efficiency of the still is reduced by approx. 10 – 15 %.
This accessory must definitely be installed in our factory.

Order No. 2901

Hose Set
consisting of hoses for water inlet and outlet (1.5 m) and hose clips

Order No. 2941

Hose Set
consisting of hoses for water inlet and outlet (1.5 m) and hose clips, in connection with Separate Water Supply 2901

Order No. 2946
Separate Water Supply

to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water.

The pretreated water is not switched off automatically when the storage tank is full.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2901

Separate Water Supply with Solenoid Valve

to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water. The solenoid valve switches the pretreated water off when the storage tank is full.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2909

Level Control Switch for an External Storage Tank

to switch off power and water when the external storage tank is full (not included in our scope of supply).

This accessory must definitely be installed in our factory. The internal storage tank will be without function if Level Control Switch 2910 is installed.

Order No. 2910

Hose Set

consisting of hoses for water inlet and outlet (1.5 m) and hose clips

Order No. 2941

Hose Set

consisting of hoses for water inlet and outlet (1.5 m) and hose clips, in connection with Separate Water Supply 2901 or 2909

Order No. 2946
Separate Water Supply

to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water.

The pretreated water is not switched off automatically when the storage tank is full.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2901

Separate Water Supply with Solenoid Valve

to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water. The solenoid valve switches the pretreated water off when the storage tank is full.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2909

Level Control Switch for an External Storage Tank

to switch off power and water when the external storage tank (not included in our scope of supply) is full.

This accessory must definitely be installed in our factory. The internal storage tank will be without function if Level Control Switch 2910 is installed.

Order No. 2910

Heating with Thermostat for the Internal Storage Tank

to maintain sterility of the distillate.

This accessory must definitely be installed in our factory.

Order No. 2911

Hose Set

consisting of hoses for water inlet and outlet (1.5 m) and hose clips

Order No. 2941

Hose Set

consisting of hoses for water inlet and outlet (1.5 m) and hose clips, in connection with Separate Water Supply 2901 or 2909

Order No. 2946

Hose Set

consisting of hoses for water inlet and outlet (1.5 m) and hose clips, in connection with Separate Water Supply 2903

Order No. 2947
Level Control Switch for an External Storage Tank to switch off power and water when the external storage tank (not included in our scope of supply) is full. This accessory must definitely be installed in our factory.

Order No. 2908

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips

Order No. 2943

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips, in connection with Separate Water Supply 2902

Order No. 2948

Separate Water Supply with Solenoid Valve to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water. Both cooling and pretreated water feed are automatically controlled by the unit.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2902

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips, in connection with Separate Water Supply 2902

Order No. 2944

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips, in connection with Separate Water Supply 2902

Order No. 2949

Separate Water Supply with Solenoid Valve to feed the evaporator with softened or desalinated water (pressure > 1 bar) and the cooling coil (pressure > 3 bar) with phosphate-treated or normal tap water. Both cooling and pretreated water feed are automatically controlled by the unit.

Efficiency of the still is reduced by approx. 10 – 15 %.

This accessory must definitely be installed in our factory.

Order No. 2902

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips

Order No. 2948

Hose Set consisting of hoses for water inlet and outlet (1.5 / 1.0 m), distillate withdrawal (0.5 m) and hose clips, in connection with Separate Water Supply 2902
Summary Range of Laboratory Products

- Chest Freezers
- Upright Freezers
- Water Baths
- Tissue Float Bath
- Shaking Water Baths
- THERMOLAB®
- Water Stills
- Shaking Incubators
- Hybridisation Incubator
- Mini Incubator
- Mini Tube Roller Incubator
- Shakers
- Test Tube Rotator
- Rotating Shaker

Would you like detailed information on our range of products?

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Internet: www.GFL.de