

Laboratory

# Water Distillation

**DS 2000**

**DS 4000**

**DS 8000**

**DS 8008**

**DS 8012**

**DS 8025**

 DragLab

**Connect & Go**



## Laboratory Water Still DS 4000

A professional, fully automatic water distiller, the DragLab water still is constructed from high-quality stainless steel. It is designed to produce 4 liters per hour of high-purity distillate with minimal personnel supervision.



### Effortless Water Purity With DragLab Distillation Solutions

DragLab Distillation Units are the most effective and reliable devices for producing pure water, requiring only a connection to raw water and a power source. This process involves transforming raw water (tap water) into steam and then back into liquid, effectively separating water from impurities with higher boiling points. The resulting steam, once condensed, produces distilled water with a purity of approximately 99.5%, removing salts, organic substances, microorganisms, pyrogens, and bacteria. DragLab water distillation units require minimal maintenance needing only regular cleaning. When carbon dioxide from the air dissolves in distilled water, its pH becomes slightly acidic, 5 to 5.6. Distilled water should be used promptly or stored in airtight conditions to maintain purity.

### Application:

- Biotechnology, cell culture and media preparation
- Testing, analysis and research laboratories
- Microbiology and Bacteriology sample preparation
- Food and beverage production
- Sterilization, cleaning and Medical equipment.
- Cosmetics, skincare products production.
- Electronics and Automotive.
- Pharmaceutical manufacturing and drug formulation.

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# Quality and Expertise



DragLab is certified to ISO 9001:2015, reflecting our unwavering commitment to quality and excellence. We continuously optimize our production processes, ensuring that every step is efficient and effective. Through ongoing development and innovation, we strive to meet and exceed industry standards. Our customer-centric approach prioritizes the needs and satisfaction of our clients, driving us to maintain rigorous quality assurance protocols. This dedication ensures that laboratory equipment manufactured by DragLab consistently meets the highest standards of quality and reliability.

DragLab Laboratory Devices are meticulously designed and manufactured from high-quality materials to meet the most rigorous requirements of our customers. Our commitment to excellence and innovation drives continuous development and improvement, informed by daily usage and ongoing technological advancements. 'Quality and Expertise' is not just about creating impressive product designs; it reflects our company's policy of prioritizing high preparedness and customer-centric service as our fundamental objective. This dedication extends to all DragLab products, which comply with current European standards and bear the CE mark.



## Laboratory Water Still DS 4000

A professional, fully automatic water distiller, the DragLab water still is constructed from high-quality stainless steel. It is designed to produce 4 liters per hour of high-purity distillate with minimal personnel supervision.



### Features:

#### Distillation Capacity:

Produces 4 L/h of distilled water.

#### Purity:

High-purity distilled water with conductivity of approximately 2.5  $\mu\text{S}/\text{cm}$  at 25 °C.

#### Water Quality:

Pyrogen-free, low-gas, and bacteria-free water.

#### Protection:

Automatic thermostatic low-water cut-off to protect the heating element in case of low water.

#### Operation:

Automatic water switching for continuous functionality.

#### Maintenance:

Easily accessed evaporator tank for effortless cleaning and maintenance.

#### Material:

All water contact materials are made of stainless steel (material no.: EN 1.4301).

#### Heating Element:

Made of stainless steel (material no.: EN 1.4301).

#### Housing:

Galvanized steel with electrostatic powder coating.

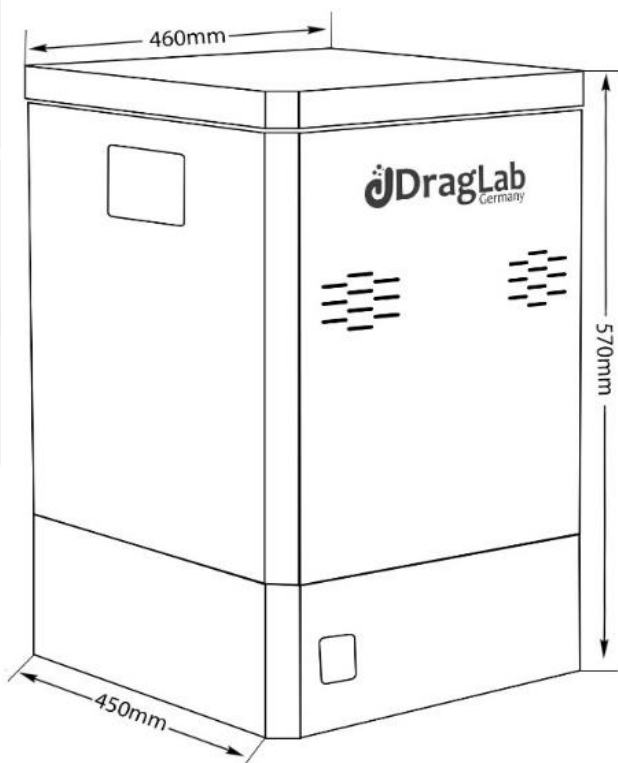
#### Installation:

Suitable for both bench and wall mounting.

#### Accessories:

All parts and accessories for installation included.

### Dimensions:





## Laboratory Water Still DS 4000

### Specifications:

#### Capacity

<b>Capacity</b>	4 litter / hour
<b>Consumption</b>	40 litter / hour
<b>Conductivity</b>	Approximately 2,5 µS/cm at 25 C

#### Control technology

<b>Fully Automatic</b>	Automatic thermostatic power cut-off to protect the heating element in case of low water
<b>Fully Automatic</b>	Automatic power activation when the water level reaches the safety line in the evaporator tank to protect the heating element.
<b>Water supply</b>	Built-in solenoid valve connection for the evaporator and cooler, with automatic switching on/off based on the water level in the evaporator tank.

#### Standard equipment

<b>Internal material</b>	The tank is made of stainless steel (material no. EN 1.4301)
<b>Internal material</b>	The condenser (cooler) is made of stainless steel (material no. EN 1.4876).
<b>Internal material</b>	The heating element is made of stainless steel (material no. EN 1.4876).
<b>External material</b>	The housing is made from galvanized steel and coated with electrostatic powder.
<b>Degassing system</b>	The unit includes a top vent for effective degassing, ensuring pyrogen-free, low-gas, and bacteria-free water.
<b>Accessing interior</b>	The evaporator is easily accessible for cleaning and maintenance, facilitating efficient cleaning procedures.
<b>Installation</b>	All necessary parts and accessories for installation are included.
<b>Distillate water withdrawal</b>	Distillate water can be continuously withdrawn by opening the drain tap.
<b>Main switch</b>	The main power switch button located on the front of the unit
<b>Led light</b>	Two LED lights on the front: a green light indicating standby operation and a red-light indicating faults.
<b>Mounting</b>	Suitable for both benchtop and wall mounting.

#### Safety

<b>Water</b>	Low water level sensor with automatic power cut-off to protect the heating element.
<b>Heating</b>	Overheating cut-off
<b>Led light</b>	Red LED alarm indicator for faults & errors
<b>Degassing</b>	pyrogen-free, low-gas, and bacteria-free water.
<b>Power connection</b>	Power cable with German shock-proof type (Schuko)) plug

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### Specifications:

#### Connection

<b>Water inlet</b>	The cooling water inlet is located on the right-hand side of the unit, with a diameter of 3/4 inch (Ø 19.05 mm).
<b>Water pressure range</b>	From 2 bars to 10 bars
<b>Water outlet</b>	The cooling water outlet is located on the right-hand side of the unit, with a diameter of 2/5 inch (inner Ø 10 mm).
<b>Drainage tap</b>	The drainage tap is located on the right-hand side of the unit, with a diameter of 2/5 inch (inner Ø 10 mm).
<b>Distillate water</b>	Distillate water can be continuously withdrawn by opening the drain tap.
<b>Power</b>	The main connection cable on the left-hand side of the unit

#### Electrical data

<b>Voltage</b>	230 volts, 50/60Hz
<b>Watt</b>	3000 watts

#### Shipping information

<b>Customs tariff number</b>	8419 4090
<b>Packaging Dimension</b>	53 W X 50 D X 75 H (CM)
<b>Net weight</b>	22 Kg
<b>Gross weight carton</b>	27 Kg

### Order Information:

Description	Model	Article number
Water still 4L/h, 220V/50-60Hz	DS 4000	5042.000

