DragLab

Laboratory

Water Distillation

DS 2000

DS 4000

DS 8000

DS 8008

DS 8012

DS 8025

Connect & Go



Laboratory Water Still DS 4000

The DragLab Water Still is a professional, fully automatic water distiller constructed from high-quality stainless stee
designed to produce **4 L/h of high-purity distillate** with minimal personnel supervision.



Effortless Water Purity With DragLab Distillation Solutions

DragLab Distillation Units are professional, fully automatic devices designed to produce high-purity distilled water, requiring only a connection to a raw water supply and a power source. The distillation process involves heating raw water (tap water) to generate steam and then condensing the steam back into liquid water. This process effectively separates water from impurities with higher boiling points. The resulting condensate is distilled water with a purity of approximately 99.5%, removing salts, organic substances, microorganisms, pyrogens, and bacteria. DragLab Water Distillation Units require minimal maintenance, primarily consisting of regular cleaning. When carbon dioxide from the air dissolves in distilled water, it can form carbonic acid, causing the pH to become slightly acidic, typically in the range of 5.0 to 5.6. Distilled water should be used promptly or stored in airtight conditions to maintain its 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 industries
- Pharmaceutical manufacturing and drug formulation.

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Quality and Expertise

ISO 9001:2015

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.

CE

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Features

Distillation Capacity
Produces4L/hofdistilled water.

Purity
Produces high-purity distilled water with a conductivity of approximately2.3 µS/cm at 25 °C.

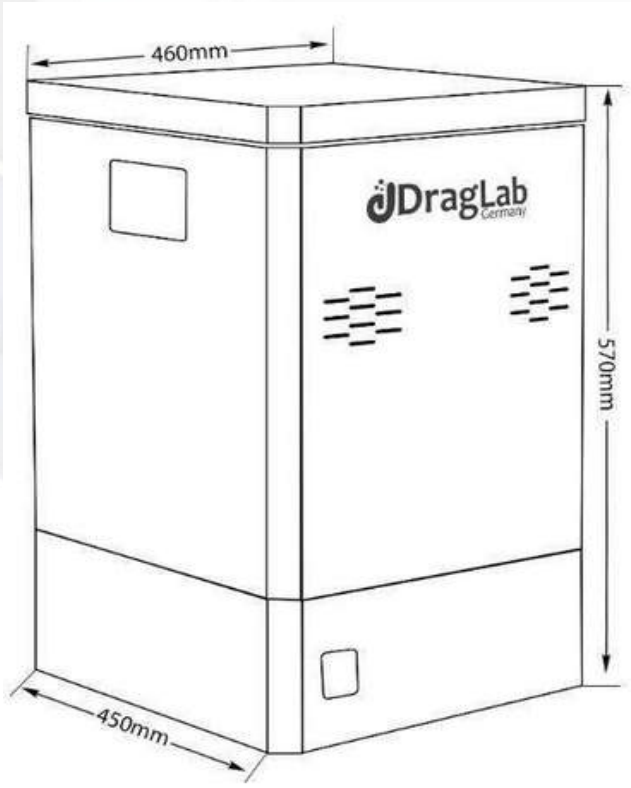
Water Quality
Producespyrogen-free, low-gas, and bacteria-free water.

Protection
Automaticthermostatic low-water cut-off protects the heating element incase of insufficient water.

Ope r at io n
Automaticwater switching enables continuous operation.

Maintenance
Theeasilyaccessible evaporator tank facilitates cleaning and routine maintenance.

Dimensions:



Material
All water-contactcomponents are made of stainless steel (material no. EN 1.4301).

Heating Element
Theheatingelement is made of stainless steel (material no. EN 1.4301).

Housing
Galvanizedsteel housing with electrostatic powder coating.

Installation
Suitableforboth bench-top and wall mounting.

Accessories
Allpartsandaccessories required for installation are included.

Laboratory Water Still DS 4000

Specifications:

Capacity	
Capacity	4 L/h
Water Consumption	40 L/h
Conductivity	Approximately 2.3 µS/cm at 25 °C
Control technology	
Automatic Protection	Automatic thermostatic power cut-off protects the heating element in case of low water level.
Automatic Power Activation Water supply	Automatic power activation when the water level reaches the safety line in the evaporator tank to protect the heating element.
	Built-in solenoid valve connection for the evaporator and condenser, with automatic switching on/off based on the water level in the evaporator tank.
Standard equipment	
Internal Material - Evaporator Tank	The evaporator tank is made of stainless steel (material no. EN 1.4301).
Internal Material - Condenser	The condenser is made of stainless steel (material no. EN 1.4876).
Internal Material - Heating Element	The heating element is made of stainless steel (material no. EN 1.4876).
External material	
	The housing is made of galvanized steel with an electrostatic powder coating.
Degassing system	
	The unit includes a top vent for effective degassing, ensuring pyrogen-free, low-gas, and bacteria-free water.
Interior Access Installation	
	The evaporator is easily accessible for cleaning and maintenance, facilitating efficient cleaning procedures.
Distillate Withdrawal	
Main switch	
LED Indicators	All necessary parts and accessories for installation are included.
	Distilled water can be continuously withdrawn by opening the drain tap.
Mounting	The main power switch is located on the front of the unit.
Safety	
Water Level Protection	Two LED indicators are located on the front of the unit: a green LED indicating standby operation and a red LED indicating faults.
	Suitable for both benchtop and wall mounting.
Heating Protection	
Fault Indicator	
Degassing	Low-water-level sensor with automatic power cut-off to protect the heating element.
	Overheating cut-off
Power connection	Red LED alarm indicator for faults and errors.
	Top vent for degassing, ensuring pyrogen-free, low-gas, and bacteria-free water.
	Power cable with a German Schuko-type plug.

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Specifications:

Connection	
Water inlet	The cooling water inlet is located on the right-hand side of the unit and has a diameter of 3/4 inch (Ø 19.05 mm).
Water pressure range	2-10 bar
Water outlet	The cooling water outlet is located on the right-hand side of the unit, with a diameter of 2/5 inch (inner Ø 10.16 mm).
Drainage tap	The drainage tap is located on the right-hand side of the unit, with a diameter of 2/5 inch (inner Ø 10.16 mm).
Distillate Withdrawal	Distilled water can be continuously withdrawn by opening the drain tap.
Power Connection	The main power connection cable is located on the left-hand side of the unit.
Electrical data	
Voltage	230 V, 50/60 Hz
Power	3000 W
Shipping information	
Customs tariff number	8419 4090
Packaging Dimension	53 W × 50 D × 75 H cm
Net weight	22 Kg
Gross weight carton	27 Kg

Order Information:

Description	Model	Article number
Water still 4L/h, 230V/50-60Hz	DS 4000	5042.000

Caresource for Scientific and Laboratory Equipment Trading CO LLC

Tel: +971 4 385 6348
Mobile: +971 52 941 8683
Whatsapp: Click Here
E- mail: sales@caresourceglobal.com
Website: www.caresourceglobal.com
Al lotus bldg. 2nd Floor R-208, Salah Al Din St, Al khabaisi(main road), near abu baker metro station Deira – Dubai UAE