## WATER STILLS

### DEST-4
standard water stiller with integrated low-water cut-out, continuous production of high pure water, free of dissolved metals and pyrogens

**Specification:**
- Distillate flow rate: approx 4 l/h
- Conductivity of distilled water (20°C): 1 µS/cm
- Wattage: 3000 W
- Heater element: Silica heater
- Material of glass parts: Borosilicate glass 3.3
- Water consumption: approx 60 l/hr
- Weight: approx 4.5 kg

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>BOE 8704000</td>
<td>DEST-4, 230 V</td>
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</tbody>
</table>

### DEST-4M PLUS
reliable water still with stainless steel boiler and element and borosilicate condenser. Integrated low-water cut-off, water inlet & flow regulator, continuous production

**Specification:**
- Distillate flow rate: approx 4 l/h
- Conductivity of distilled water (20°C): 3 µS/cm
- Wattage: 3,000 W / 2400 W (110 V)
- Heater element: Stainless steel (AISI 304)
- Material of glass parts: Borosilicate glass 3.3
- Safety: Low water cut-off
- Water consumption: approx 50-60 l/hr
- Weight: approx 2.5 kg

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<th>Code</th>
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<tbody>
<tr>
<td>BOE 8704100</td>
<td>DEST-4M plus, 230 V</td>
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<tr>
<td>BOE 8704101</td>
<td>DEST-4M plus, 110 V</td>
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</tbody>
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### BOECO DEST 4L
vertical water still with stainless steel boiler and borosilicate condenser. Integrated low-water cut-off, water inlet & flow regulator, continuous production of high purity distilled water, free of metal ions, salts, dissolved gases and pyrogenic substances. With flow regulator to avoid excessive water consumption.

**Specification:**
- Distillate flow rate: approx 4 l/h
- Conductivity of distilled water (20°C): 1.5 µS/cm
- Heater: 3.000 W
- Heater element: Stainless steel (AISI 304)
- Material of glass parts: Borosilicate glass 3.3
- Safety: Low water cut-off & level switch
- Water consumption: approx. 55 l/hr
- Size: 690 x 280 x 280 mm (hwxwd)
- Weight: approx 6.3 kg

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<tr>
<td>BOE 8704200</td>
<td>DEST 4L, 230 V</td>
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**BOECO WS 4000 / WS 8000**

Stainless steel water still with thermostatic low water cut-off and level switch which activates the heater if there is enough level of water in the boiler.

**Specification:**

- **Distillate flow rate:**
  - WS 4000: approx 4 l/h
  - WS 8000: approx 7.5-8 l/h

- **Conductivity of distilled water (20°C):**
  - approx 1.5 µS/cm

- **Heater:**
  - WS 4000: 3 KW
  - WS 8000: 6 KW

- **Cooling water:**
  - WS 4000: approx 60 l/h
  - WS 8000: approx 84 l/h

- **Material:**
  - Inner part: Stainless steel
  - Outer part: Stainless steel & Powder coating

- **Dimensions:**
  - WS 4000: 435x370x220mm
  - WS 8000: 635x370x260mm

- **Switch:**
  - Main power with pilot lamp

- **Sealing:**
  - Silicone gasket

- **Safety:**
  - Low water level & over heating cut-off

**Code** | **Description**
--- | ---
BOE 8703600 | WS 4000, 230 V
BOE 8703601 | WS 4000, 110 V
BOE 8707500 | WS 8000, 230 V

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**BOECO DEST TANK 4000 / 8000**

Stainless steel water still for automatic and continuous operation with built-in 8/16 l storage tank. For bench and wall mounting. Supplied with wall mounting bracket. Excellent quality of distillation. An electronic level switch switches the still off when the storage tank is full and restarts it automatically when distilled water is withdrawn. Dispenser Tap of distilled water. With flow regulator to avoid excessive water consumption.

**Specification:**

- **Distillate flow rate:**
  - TANK 4000: approx 4 l/h
  - TANK 8000: approx 8 l/h

- **Water tank capacity:**
  - TANK 4000: 8 l
  - TANK 8000: 16 l

- **Cond. of dist water (20°C):**
  - approx 1.5 µS/cm

- **Power:**
  - TANK 4000: 3000 W
  - TANK 8000: 6000 W

- **Cooling water:**
  - TANK 4000: approx 55 l/h
  - TANK 8000: approx 80 l/h

- **Material:**
  - Inner part: Stainless steel
  - Outer part: Galvanized steel & powder coating

- **Switch:**
  - Main power with pilot lamp

- **Safety:**
  - Low water level & over heating cut-off

- **Size (wxdxh):**
  - TANK 4000: 620 x 330 x 460 mm
  - TANK 8000: 720 x 350 x 700 mm

- **Weight:**
  - TANK 4000: approx 24 kg
  - TANK 8000: approx 36 kg

**Code** | **Description**
--- | ---
BOE 8704500 | DEST TANK 4000, 230 V
BOE 8704501 | DEST TANK 4000, 110 V
BOE 8708000 | DEST TANK 8000, 230 V
BOE 8708001 | DEST TANK 8000, 110 V

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**PRESSURELESS DEIONIZER DS 450**

Pressureless ion exchanger in disposable cartridges of synthetic material. Excellently suited for medical practices and small laboratories requiring up to 10 litres a day. Supplied with conductivity meter, wall mount and set of hoses.

**Specification:**

- **Flow rate:** 50 l/h
- **Capacity at 10° GSG:** 425 l
- **Quality:** 0,1 - 20 µS/cm
- **Temperature max:** 30°C
- **Material:** Polyethylene
- **Size:** 100 x 600 mm (incl. cond. meter)
- **Weight:** 3 kg

**Code** | **Description**
--- | ---
BOE 11042506 | Deionizer DS 450, 230 V, 50-60 Hz
BOE 11042507 | Deionizer DS 450, 110 V, 60 Hz
BOE 11042706 | Set of two replacement cartridges
BOECO BIDEST 4

is our Bidistiller designed to work automatically with a production of 4 liters per hour, includes several safety systems to work continuously.

▶ Produces distilled water for the most common applications in the laboratory.
▶ Boiler and Condenser are made of borosilicate glass 3.3. The heaters are sheated with quartz glass. This is ideal for producing high quality water, free of metal ions and pyrogens, with a conductivity 1-2 µS/cm.
▶ Incorporates several security systems for automatic operation: presostat, electrovalve and level sensor.
▶ Cooling water outlet by rubber tube. The condensed water not flowing through the cooling water outlet.
▶ Energy saving through distillation of preheated cooling water.
▶ Distillation process visible through the front screen.
▶ The main switch and monitor drivers are on the front of the unit.
▶ Control of water level automatic cut off power in case of lack of water.
▶ Output of the distillate on the side of the unit.
▶ Output of carbon dioxide through hole of the top of condensers.
▶ Suitable for wall mounting.

Safety systems

Preostat
Safety thermostat protects still in the event of water supply failure.

Electrovalve
It cuts water and electrical supply to avoid useless expenses of water and electricity.
It returns to open water inlet if the electrical supply is enough to let the water still to work properly.

Level device
Device to fill a container without worrying when it finished. It cuts water and electrical supply to avoid useless expenses of water and electricity.

Specification:
Output: approx 4 l/h
Conductivity of distilled water (20°C): 1-2 µS/cm
pH: Depends on tap water inlet 5,5-7
Heater: 2 x 3000 W
Heater element: Quartz sheated heater
Material of glass parts: Borosilicate glass 3.3
Water consumption: approx. 1.2 l/min
Size: 70 x 36 x 47 cm (lxwxh)
Weight: approx 23 kg

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<tr>
<td>BOE 8700410</td>
<td>BIDEST 4, 230V, 50/60 Hz, single phase</td>
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Note on the water output:
Depends directly on the quality of water supply and other environmental factors, maybe type III (according to ASTM). As distillates are open to the atmosphere before measurements can be made, the value of conductivity is really much less (down to 10 times) than it is really measured. Any ultra pure water in contact with the atmosphere has a conductivity of 1-2 µS/cm and a pH of of 5, due to the small amount of CO2 (0.05 ppm) from the atmosphere.