**DEST-4**

Standard water stiller with integrated low-water cut-off, 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: 3,000 W
- Heater element: Silica heater
- Material of glass parts: Borosilicate glass 3.3
- Water consumption: approx. 60 l/h
- Size: 55 x 15 x 50 cm (lxwxh)
- Weight: approx. 4.5 kg

**Code**
- BOE 8704000

**Description**
- DEST-4, 230 V

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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 x 2,200 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/h
- Size: 690 x 280 x 280 mm (hxwxd)
- Weight: approx. 6.3 kg

**Code**
- BOE 8704200

**Description**
- DEST 4L, 230 V

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**BOECO DEST 10L**

Vertical water still with 3 metallic heaters and a large surface condenser made of borosilicate glass 3.3. Designed for fully automatic operation, with an output of 10 liters per hour, includes safety features in case of lack of electricity supply or flow water supply. Automatic operation because of an included reservoir level control. If the distilled water is supplied to an external reservoir or flask the level control will unplug the water still DEST 10L if the reservoir is full and start again if the water level has been reduced in the reservoir.

**Specification:**
- Distillate flow rate: approx 10 l/h
- Conductivity of distilled water (20°C): 1.5 µS/cm
- Heater: 3 x 2,200 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. 1.5 l/min
- Size: 36 x 40 x 96 cm (lxwxh)
- Weight: approx. 16 kg

**Code**
- BOE 8711811
- BOE 8711812

**Description**
- DEST 10L, 230V, single phase
- DEST 10L, 380V, 3-phase
**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
- Cond. of dist water (20°C):
  - WS 4000: approx. 1,5 µS/cm
  - WS 8000: 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
- Size: (h x w x d)
  - WS 4000: 435x370x220mm
  - WS 8000: 635x370x260mm
- Switch:
  - WS 4000: Main power with pilot lamp
  - WS 8000: Main power with pilot lamp
- Sealing:
  - WS 4000: Silicone gasket
  - WS 8000: Silicone gasket
- Safety:
  - WS 4000: Low water level & over heating cut-off
  - WS 8000: Low water level & over heating cut-off

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOE 8703600</td>
<td>WS 4000, 230 V</td>
</tr>
<tr>
<td>BOE 8703601</td>
<td>WS 4000, 110 V</td>
</tr>
<tr>
<td>BOE 8707500</td>
<td>WS 8000, 230 V</td>
</tr>
</tbody>
</table>

**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 destilled 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):
  - TANK 4000: approx. 1,5 µS/cm
  - TANK 8000: approx. 1,5 µS/cm
- Power:
  - TANK 4000: 3.000 W
  - TANK 8000: 6.000 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:
  - TANK 4000: Main power with pilot lamp
  - TANK 8000: Main power with pilot lamp
- Safety:
  - TANK 4000: Low water level & over heating cut-off
  - TANK 8000: Low water level & over heating cut-off
- Size (wxdxh):
  - TANK 4000: 620 x 330 x 460 mm
  - TANK 8000: 720 x 350 x 700
- Weight:
  - TANK 4000: approx. 24 kg
  - TANK 8000: approx. 36 kg

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOE 8704500</td>
<td>DEST TANK 4000, 230 V</td>
</tr>
<tr>
<td>BOE 8704501</td>
<td>DEST TANK 4000, 115 V</td>
</tr>
<tr>
<td>BOE 8708000</td>
<td>DEST TANK 8000, 230 V</td>
</tr>
</tbody>
</table>

**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 a set of hoses.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOE 11042506</td>
<td>Deionizer DS 450, 230 V, 50-60 Hz</td>
</tr>
<tr>
<td>BOE 11042507</td>
<td>Deionizer DS 450, 110 V, 60 Hz</td>
</tr>
<tr>
<td>BOE 11042706</td>
<td>Set of two replacement cartridges</td>
</tr>
</tbody>
</table>
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: preostat, 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:

<table>
<thead>
<tr>
<th>Output:</th>
<th>approx. 4 l/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductivity of distilled water (20°C):</td>
<td>1-2 µS/cm</td>
</tr>
<tr>
<td>pH:</td>
<td>Depends on tap water inlet 5,5-7</td>
</tr>
<tr>
<td>Heater:</td>
<td>2 x 3,000 W</td>
</tr>
<tr>
<td>Heater element:</td>
<td>Quartz sheated heater</td>
</tr>
<tr>
<td>Material of glass parts:</td>
<td>Borosilicate glass 3.3</td>
</tr>
<tr>
<td>Water consumption:</td>
<td>approx. 1,2 l/min</td>
</tr>
<tr>
<td>Size:</td>
<td>70 x 36 x 47 cm (lxwkh)</td>
</tr>
<tr>
<td>Weight:</td>
<td>approx. 23 kg</td>
</tr>
</tbody>
</table>

Code | Description
---|----------------
BOE 8700410 | BIDEST 4, 230V, 50/60 Hz, single phase

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 5, due to the small amount of CO2 (0,05 ppm) from the atmosphere.