

# WATER STILLS

DEST 4



## 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	Description
BOE 8704000	DEST-4, 230 V

## 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/h
Size:	690 x 280 x 280 mm (hxwxh)
Weight:	approx. 6,3 kg

Code	Description
BOE 8704200	DEST 4L, 230 V

DEST 4L



## 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	Description
BOE 8711811	DEST 10L, 230V, single phase
BOE 8711812	DEST 10L, 380V, 3-phase

DEST 10L



## 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.

<b>Specification:</b>	<b>WS 4000</b>	<b>WS 8000</b>
Distillate flow rate:	approx 4 l/h	approx. 7,5-8 l/h
Cond. of dist water (20°C):	approx. 1,5 µS/cm	
Heater:	3 KW	6 KW
Cooling water:	approx. 60 l/h	approx. 84 l/h
Material: Inner part:	Stainless steel	
Outer part:	Stainless steel & powder coating	
Size: (h x w x d)	435x370x220mm	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



BOECO WS 4000 / WS 8000

## 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.

<b>Specification:</b>	<b>TANK 4000</b>	<b>TANK 8000</b>
Distillate flow rate:	approx. 4 l/h	approx. 8 l/h
Water tank capacity:	8 l	16 l
Cond. of dist water (20°C):	approx 1,5 µS/cm	
Power:	3.000 W	6.000 W
Cooling water:	approx. 55 l/h	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):	620 x 330 x 460 mm	720 x 350 x 700
Weight:	approx. 24 kg	approx. 36 kg

Code	Description
BOE 8704500	DEST TANK 4000, 230 V
BOE 8704501	DEST TANK 4000, 115 V
BOE 8708000	DEST TANK 8000, 230 V



BOECO DEST TANK 4000 / 8000

## 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.

<b>Specification:</b>	
Flow rate:	50 l/h
Capacity at 10° 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

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 sheathed with quartz glass. This is ideal for producing high quality water, free of metal ions and pyrogens, with a conductivity 1-2  $\mu\text{S} / \text{cm}$ .
- ▶ 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 $\mu\text{S}/\text{cm}$
pH:	Depends on tap water inlet 5,5-7
Heater:	2 x 3.000 W
Heater element:	Quartz sheathed 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

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  $\mu\text{S}/\text{cm}$  and a pH of 5, due to the small amount of CO<sub>2</sub> (0.05 ppm) from the atmosphere.