

HEATING MANTLES

- ▶ for operating temperatures up to 450°C
- ▶ for glass flasks, round bottom up to 20 L.
- ▶ flexible glass yarn heating element
- ▶ plastic coated metal housing
- ▶ thermally insulated and grounded
- ▶ predrilled threaded hole on rear allows connection of the clamp KM-SK (accessory)

BOECO LabHEAT® KM-M SERIES

1,5 m power supply (earthed) cable with heating-zone switch



KM-M

| Volume ml/l | Flask ø mm | Power W | Heating zones | Order No. 220V AC | Order No. 110V AC |
|-------------|------------|---------|---------------|-------------------|-------------------|
| 50 | 51 | 55 | 1 | BOE 91000050 | BOE 91500050 |
| 100 | 64 | 100 | 1 | BOE 91000100 | BOE 91500100 |
| 250 | 85 | 150 | 2 | BOE 91000250 | BOE 91500250 |
| 500 | 105 | 200 | 2 | BOE 91000500 | BOE 91500500 |
| 1 | 131 | 300 | 2 | BOE 91001000 | BOE 91501000 |
| 2 | 166 | 500 | 2 | BOE 91002000 | BOE 91502000 |
| 3 | 185 | 600 | 2 | BOE 91003000 | BOE 91503000 |
| 4 | 207 | 750 | 2 | BOE 91004000 | BOE 91504000 |
| 5 | 223 | 860 | 2 | BOE 91005000 | BOE 91505000 |
| 6 | 236 | 1000 | 2 | BOE 91006000 | BOE 91506000 |
| 10 | 279 | 1400 | 2 | BOE 91010000 | BOE 91510000 |
| 20 | 345 | 2000 | 2 | BOE 91020000 | BOE 91520000 |

BOECO LabHEAT® KM-ME SERIES

designed identical to series KM-M, but in addition equipped with a built-in heating-zone switch and a power controller which allows a continuous adjustment of the heater power.



KM-ME

| Volume ml/l | Flask ø mm | Power W | Heating zones | Order No. 220V AC | Order No. 110V AC |
|-------------|------------|---------|---------------|-------------------|-------------------|
| 50 | 51 | 55 | 1 | BOE 92000050 | BOE 92500050 |
| 100 | 64 | 100 | 1 | BOE 92000100 | BOE 92500100 |
| 250 | 85 | 150 | 2 | BOE 92000250 | BOE 92500250 |
| 500 | 105 | 200 | 2 | BOE 92000500 | BOE 92500500 |
| 1 | 131 | 300 | 2 | BOE 92001000 | BOE 92501000 |
| 2 | 166 | 500 | 2 | BOE 92002000 | BOE 92502000 |
| 3 | 185 | 600 | 2 | BOE 92003000 | BOE 92503000 |
| 4 | 207 | 750 | 2 | BOE 92004000 | BOE 92504000 |
| 5 | 223 | 860 | 2 | BOE 92005000 | BOE 92505000 |
| 6 | 236 | 1000 | 2 | BOE 92006000 | BOE 92506000 |
| 10 | 279 | 1400 | 2 | BOE 92010000 | BOE 92510000 |
| 20 | 345 | 2000 | 2 | BOE 92020000 | BOE 92520000 |

BOECO LabHEAT® KM-MER SERIES

designed identical to series KM-ME, but in addition equipped with a built-in separate switched magnetic stirrer with an infinitely variable speed range - up to 1600 rpm.



KM-MER

| Volume ml/l | Flask ø mm | Power W | Heating zones | Order No. 220V AC |
|-------------|------------|---------|---------------|-------------------|
| 100 | 64 | 100 | 1 | BOE 94000100 |
| 250 | 85 | 150 | 2 | BOE 94000250 |
| 500 | 105 | 200 | 2 | BOE 94000500 |
| 1 | 131 | 300 | 2 | BOE 94001000 |

| Code | Description |
|---------------|--|
| BOE 970000001 | Support clamp KM-SK for the attachment of the metal-cased heating mantles to support rod or within support wall. |



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 |

| Code | Description |
|-------------|---------------|
| BOE 8704000 | DEST-4, 230 V |



DEST-4

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 |

| Code | Description |
|-------------|---------------------|
| BOE 8704100 | DEST-4M plus, 230 V |
| BOE 8704101 | DEST-4M plus, 110 V |



DEST-4M PLUS

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:

| | WS 4000 | WS 8000 |
|---|--|------------------|
| Distillate flow rate: | approx 4 l/h | approx 7,5-8 l/h |
| Conductivity of distilled 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 | |
| Dimensions: (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 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 (hwxwd) |
| Weight: | approx 6,3 kg |

| Code | Description |
|-------------|----------------|
| BOE 8704200 | DEST 4L, 230 V |

BOECO DEST TANK 4000

Stainless steel water still for automatic and continuous operation with built-in 8 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: | approx 4 l/h |
| Water tank capacity: | 8 l |
| Conductivity of distilled water (20°C): | approx 1,5 µS/cm |
| Power: | 3000 W |
| Cooling water: | approx. 55 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: | 620 x 330 x 460 mm (wxdxh) |
| Weight: | approx 24 kg |

| Code | Description |
|-------------|-----------------------|
| BOE 8704500 | DEST TANK 4000, 230 V |
| BOE 8704501 | DEST TANK 4000, 110 V |

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 AUTOCLAVE BTE-23D

Features:

- ▶ Three times fractionated pre-vacuum
- ▶ Stainless steel chamber
- ▶ LCD display
- ▶ Equipped with high quality and high performance pump
- ▶ 1 tray holder, 1 tray handle and 3 trays included
- ▶ High quality water pump and valves
- ▶ Independent steam generator
- ▶ Two samples self-calibration
- ▶ Overhead type water storage tank, easy to clean.
- ▶ Drying procedure: Dry by vacuum.
- ▶ Sterilization temperature: 121°C and 134°C
- ▶ Test programs: Helix test, B&D test and Vacuum test.
- ▶ Sterilization cycles: 9 cycles are available and 3 test programs.

| Program | Temperature | Pressure | Sterilization time | Total time |
|--------------|-------------|----------|--------------------|------------|
| SOLID 134 | 134°C | 2.1 bar | 4 min | 25-45 min |
| SOLID 121 | 121°C | 1.1 bar | 20 min | 35-60 min |
| LIQUID 134 | 134°C | 2.1 bar | 10 min | 35-60 min |
| LIQUID 121 | 121°C | 1.1 bar | 30 min | 35-65 min |
| WRAPPED 134 | 134°C | 2.1 bar | 4 min | 35-60 min |
| WRAPPED 121 | 121°C | 1.1 bar | 20 min | 35-65 min |
| TEXTILE 134 | 134°C | 2.1 bar | 6 min | 45-65 min |
| (or wrapped) | | | | |
| TEXTILE 121 | 12°C | 1.1 bar | 20 min | 50-70 min |
| (or wrapped) | | | | |
| PRION | 134°C | 2.1 bar | 18 min | 45-70 min |
| B&D TEST | 134°C | 2.1 bar | 3.5 min | 22-35 min |
| Helix TEST | 134°C | 2.1 bar | 3.5 min | 22-35 min |
| Vacuum TEST | - | - | - | 15-20 min |

- ▶ Only have several buttons, very easy to use, any people can run it easily.
- ▶ All cycles are fully automatic; there is no need for human intervention in cycle management.
- ▶ Pressure protection locking system that ensures the door will not be opened once there is any pressure in chamber.
- ▶ Sterilization documentation: Integrated Micro Printer and USB port to store the information of the programm cycle in flash memory.
- ▶ The sterilization time and dry time can be adjusted by manual, ensure user obtain best sterilization effects according to private requirements.
- ▶ Malfunction detection system, corresponding error code will be showed on the display once there is something going wrong.

Safety:

- ▶ Warning system prevents starting a cycle if door is not properly locked.
- ▶ Triple threat protection for overheating and overpressure.
 - The pressure protection system will automatically cut off the electricity supply once the temperature of chamber inside is abnormally. Motorola pressure sensor is used to accurately sense the state of pressure inside chamber.
- ▶ Temperature control system is using high quality PT1000 temperature sensor, it is high precision, reliable service and prompt measure, ensure accurate and timely transmission of temperature fluctuation.
- ▶ The safety valve will release steam in case the pressure inside chamber exceed normal levels.

Technical Information:

- ▶ Conform to CE and EN13060
- ▶ Manufactured under ISO 13485 norms
- ▶ Chamber Size: ø 247 x 460 mm (23 l)
- ▶ External dimension: 690 x 480 x 455 mm, Net weight 51 kg
- ▶ Packing box 750x560x460 mm, Gross weight 58 kg
- ▶ Power: 220V, 50/60 Hz or 110V, 60Hz

| Code | Description |
|-------------|--|
| BOE 8902300 | BOECO BTE-23D Bench Top Autoclave, Vol. 23 l. incl 1 tray holder, 1 tray handle and 3 trays, micro printer and USB port, 220V, 50/60Hz |
| BOE 8902310 | BOECO BTE-23D as above but for 110 V, 60 Hz |



BOECO BTE-23D



MICRO PRINTER AND USB PORT

This BTE-23D adopts 3 times pre-fractionated vacuum system, the following chart simply describes the status of its process

