

# Water Stills

## Automatic Water Stills



- ◆ Comply with EN61010
- ◆ Operate from virtually any water supply
- ◆ Integral filter and flow control system allows use with low quality or low pressure water supply
- ◆ Accessory filter unit available for handling heavily contaminated supply water
- ◆ Accessory deioniser available to remove inorganics from the water supply
- ◆ Can be linked to most types of deioniser or reverse osmosis units

### Construction

All Aquatron stills incorporate a borosilicate glass double coil vertical condenser and boiler system. This combined with a silica sheathed heating element provides an exceptionally high quality output ready for immediate use. Raw water carry over is prevented by an extra long baffled tube between the boiler and condenser. Screwthread connectors on the internal glassware enable safe easy connection of flexible tubing. Cleaning of the boiler can be carried out without dismantling the glassware. The still is contained in a robust metal cabinet with tinted plastic front screen and simple illuminated push-button switches. The cabinet roof and front screen are easily removed for access to all glassware and components.

Models A4000 and A8000 can be wall or bench mounted.

Model A4000D is for bench mounting only.

### Safety Features

A flow control safety cut-out prevents the still from boiling dry if the water flow is interrupted. It is not dependent on water pressure which means the still can be operated from header tanks or other low pressure sources. The flow control safety cut-out is backed by a resettable thermostat to ensure protection against coolant or water feed failure. A built-in filter which is accessible from outside the cabinet removes particulate matter from the input water before it enters the still. All stills are supplied with a distillate level control system which fits to any collection reservoir. This automatically switches off the still when the reservoir is filled and back on again when the distillate level falls.

| Catalogue No.                 |             | <b>WL100-15</b>  | <b>WL102-15</b>                        | <b>WL105-15</b>                        |
|-------------------------------|-------------|--|--|--|
| Model                         |             | A4000  | A8000                                  | A4000D                                 |
| Output                        | litres/hour | 4 single distilled   | 8 single distilled                     | 4 double distilled                     |
| <b>Quality of distillate:</b> |             |  |  |  |
| pH                            |             | 5.0 - 6.5  | 5.0 - 6.5                              | 5.0 - 6.5                              |
| Conductivity                  | S/cm        | 1.0 - 2.0  | 1.0 - 2.0                              | 1.0 - 1.5                              |
| Resistivity                   | megohm-cm   | 0.5 - 1.0  | 0.5 - 1.0                              | 0.7 - 1.0                              |
| Pyrogen free*                 |             | A pyrogen free distillate is possible on all models                                |  |  |
| Temperature                   | °C          | 25 to 35 — all models  |  |  |
| <b>Services required:</b>     |             |  |  |  |
| Cold water input              |             | 1 litre/minute   | 2 litres/minute                        | 2 litres/minute                        |
| Supply pressure               |             | 0.3 x 10 <sup>5</sup> Nm <sup>-2</sup> (5lb/in <sup>2</sup> ) minimum — all models |  |  |
| Electricity supply            |             | 240V<br>50/60Hz single phase 13A fused   | 240V<br>50/60Hz single phase 30A fused | 240V<br>50/60Hz single phase 30A fused |
| Cabinet dimensions W x D x H  | mm          | 550 x 240 x 410  | 550 x 240 x 410                        | 550 x 410 x 410                        |

\* Care is needed to obtain Pyrogen-free water and the distillate must be tested before use. pH, conductivity and resistivity are similarly affected by temperature and the presence of absorbed carbon dioxide. The basis of the tests is 20°C on distilled water free of carbon dioxide.

Ordering data and accessories - see next page



# Water Stills

## Aquatron Stills continued

### Aquatron Water Stills

As described. With borosilicate glass condenser and boiler system and silica sheathed heating element in a totally enclosed cabinet. Supplied with reservoir level control. For 240V 50/60Hz single phase fused supplies rated as specified.

**WL100-15** Model A4000, 4 litres/hour\* single

**WL102-15** Model A8000, 8 litres/hour\* single

**WL105-15** Model A4000D, 4 litres/hour\* double

\* Maximum outputs stated will only be achieved at the stated voltage. 220V versions are available on request.

### Spare parts

**WL114-12** Heater W48H. For all models. 240V 50/60Hz single phase supplies

**WL114-18** Condenser WC48/M2. For all models

**WL114-30** Boiler WB4. For models A4000 and A4000D

**WL114-34** Boiler WB8. For model A8000

### Accessories

#### Reservoir Assembly I/WR20

Comprising 20 litre glass bottle complete with stopcock, lid, feed pipe and bacteriological filter.

**WL120-10** Ref. I/WR20

#### Reservoir Stand WS20

Height 430mm. For mounting reservoir assembly WR20.

**WL130-10** Ref. WS20

#### Water Feed Kits

For converting stills A4000, A8000 or A4000D to accept a feed from deionisers and other pre-treated water supplies.

**WL140-17** Ref. A4000/WCK, for WL100-15 only

**WL140-19** Ref. A4000D/WCK, for WL102-15 and WL105-15 only

## Aquatron Accessories

### Deioniser Unit ADH

For removing inorganics quickly from the feed water supply to produce high quality water with a conductivity better than 15 S/cm. Comprising free-standing clear ABS plastic housing, 130mm diameter x 315mm high. Maximum flow rate 50 litres/hour. Operating pressure 2 to 100lb/in<sup>2</sup>. Supplied with hose fitting for connecting to a normal water supply tap. Can be wall mounted with accessory bracket AFD and linked to Filter Unit AFH with coupling ALC. Requires but does not include WL164-08 for operation.

**WL160-10** Deioniser ADH

### Disposable Deioniser Cartridges ADI

Each cartridge produces up to 110 litres of deionised water with feed water of average hardness. For use with WL160-10 only. Supplied in a pack of 3.

**WL164-08** Disposable cartridges ADI

### Filter Unit AFH

For removing coarse particulates such as rust from the feed water supply. Comprising a free standing ABS plastic housing, disposable polypropylene 10 micron filter cartridge, water flow outlet with 12mm hose nozzle and hose fitting for connecting to a normal water supply tap. Overall 130mm diameter x 315mm high.

Maximum flowrate 25 litres/minute

Maximum working pressure 100lb/in<sup>2</sup>

Maximum working temperature 40°C

Can be wall mounted with accessory bracket AFD and linked to Deioniser Unit ADH with coupling ALC.

**WL180-10** Filter AFH

**WL184-08** Filter cartridges AFI, pack of 3

### Mountings/Couplings

For Deioniser/Filter units.

**WL200-12** Wall bracket AFD. For attaching deioniser unit ADH or filter unit AFH to the wall

**WL200-16** Plastic coupling ALC. Allows deioniser ADH and filter units AFH to be linked in series



WL120 with WL130



WL160 with WL164



WL180