

Water Stills

Automatic Water Stills

Bibby Scientific

- ◆ 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 the unique PYREX® 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.		WL100-15	WL102-15	WL105-15
Model		A4000	A8000	A4000D
Output	litres/hour	4 single distilled	8 single distilled	4 double distilled
Quality of distillate:				
pH		5.0 - 6.5	5.0 - 6.5	5.0 - 6.5
Conductivity	$\mu\text{S/cm}$	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		
Services required:				
Cold water input		1 litre/minute	2 litres/minute	2 litres/minute
Supply pressure		0.3 x 10 ⁵ Nm ⁻² (5lb/in ²) minimum — all models		
Electricity supply		240V 50/60Hz single phase 13A fused	240V 50/60Hz single phase 30A fused	240V 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 Pyrex 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 Pyrex glass bottle complete with Rotaflo stopcock, lid, feed pipe and bacteriological filter.

WL120-10 Ref. I/WR20

Reservoir Stand WS20

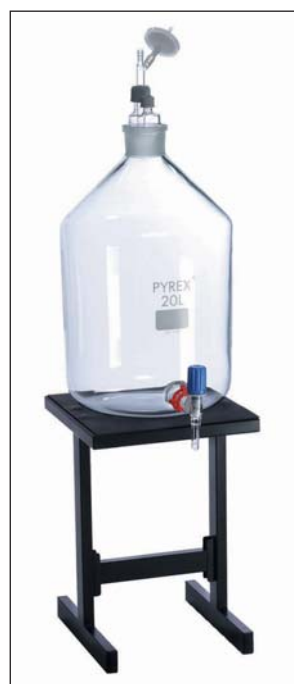
Height 430mm. For mounting reservoir assembly WR20.

WL130-10 Ref. WS20

Water Feed Kit WCK/N

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

WL140-15 Ref. WCK/N



WL120 with WL130



WL160 with WL164



WL180

Aquatron Accessories

Deioniser Unit ADH

For removing inorganics quickly from the feed water supply to produce high quality water with a conductivity better than 15µS/cm. Comprising free-standing clear ABS plastic housing, 130mm diameter x 315mm high. Maximum flow rate 50 litres/hour. Operating pressure 2 to 100lb/in². 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/in²

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