



Water Distillation Unit - Glass



distillers produce highly treated and disinfected water for laboratory usage. The distillation



Models:

- ACM-54093 w



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Weiber water distillers produce highly treated and disinfected water for laboratory usage. The distillation process removes minerals and microbiological contaminants and can reduce levels of chemical contaminants.

Water distillers are neither intended to treat water that is visually contaminated nor intended to convert waste water to safe, microbiologically.

Working Principle

A water distiller works by boiling water into water vapour, condensing it and then returning it to its liquid state. It is collected in a storage container.

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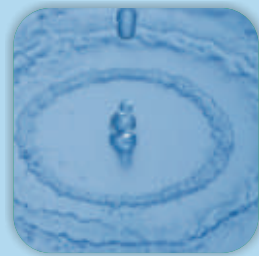
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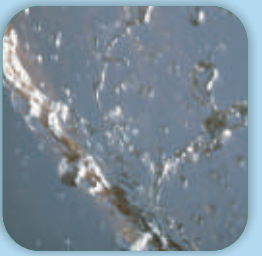
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Technical Specifications:

Parameters	Values
Output	2lt/3 lit/5tr/10 ltr/hr
Distilled Water Quality	-
Conductivity (using raw water)	3.0-4.0 x 10 ⁻⁶ S/cm
Conductivity (using treated water)	1.5-2.0 x 10 ⁻⁶ S/cm
PH	5.5 - 6.0
Distillate Quality	Pyrogen free
Electrical Power	220/240 Volts, 50 - 60 Hz, Single Phase, 3 KW Silica heater
Cooling water reqd	1-2 lit/min
Min. Pr.	3 p.s.i
Weight	8-16 kgs (app)-Model Specific

The process occurs in several steps:

- Municipal or well water is manually or automatically fed into the distiller unit's boiling chamber.
- A heating element in the boiling chamber heats the water until it boils.
- The steam rises from the boiling chamber. Volatile contaminants (gases) are discharged through a built-in vent. Minerals and salts are retained in the boiling chamber as hard deposits or scale.
- The steam enters a coiled tube (condenser), which is cooled by cool water.
- Water droplets form as condensation occurs.
- The distilled water is collected in a storage tank. If the unit is an automatic model, it is set to operate to fill the storage tank.

Construction:

The distillation apparatus consists of flask with heating elements embedded in glass and fused in spiral type coil internally of the bottom and tapered round glass, Joints at the top double walled condenser with B-40/B-50 ground glass joints, suitable to work on 220 volts, 50 cycles AC supply.

FLASK CAPACITY	SINGLE STAGE	Double Stage
(a) 3 litres		
(b) 5 litres		
(c) 10 litres		

OPTIONAL ACCESSORIES

- (a) Automatic Low Water Level Cut-off Device, in case water supply is stopped
- (b) Special grade rubber tubing (coil of 10 meters)



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