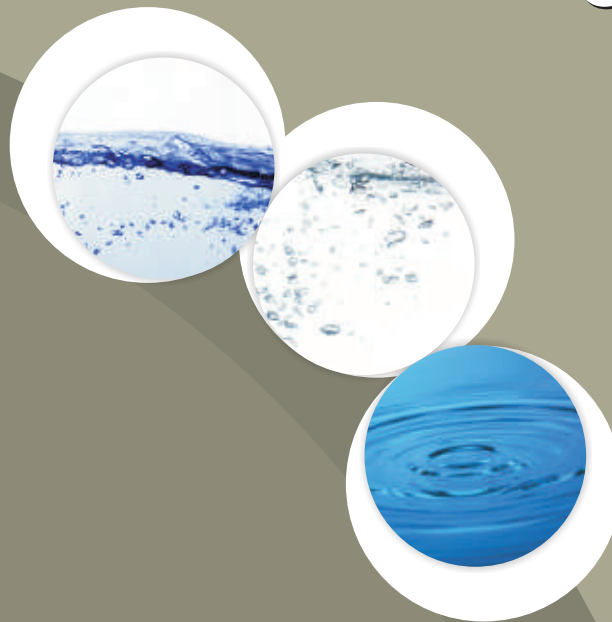




# **Water Distillation Unit - Glass**



Models:

- ACM-54093 W

**WEIBER**<sup>®</sup>



## Water Distillation Unit - Glass

<sup>®</sup>  
**WEIBER**

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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## Water Distillation Unit - Glass

### 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
- 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.

### Features :

- Quartz distiller, Demountable boiler.
- Compact design, Dual safety cutout(optional).
- High purity, low conductivity, Pyrogen free distillate.
- Easy service and maintenance due to Demountable model.

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### Technical Specifications:

Output Capacity (Approx.)	1 ltr/hr	1.5 ltr/hr	2 ltr/hr	2.5 ltr/hr	3.0 ltr/hr	5.0 ltr/hr
Electrical Power Reqd.	220/240 V, Single Phase, 2.0 KW Heater	220/240 V, Single Phase, 3.0 KW Heater	220/240 V, Single Phase, 3.5 KW Heater	220/240 V, Single Phase, 4.5 KW Heater	220/240 V, Single Phase, 5.0 KW Heater	440 V, Two Phase, 8.0 KW Heater
Cooling Water Consumption	40 lit/hr	50 lit/hr	65 lit/hr	70 lit/hr	100 lit/hr	150 lit/hr

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**Distillate Quality Specifications**

Specific Conductivity at 25 0C	less than 0.4 x 10 <sup>-6</sup> S/cm
PH at 25 0C	*Not applicable
Total Organic Carbon (TOC) mg/lit	**Not detected
Organic Matter mg/lit	NIL
Total Solids (mg/lit)	0.1 mg/lit
Silica (mg/lit)	less than 0.01 mg/lit
KMnO 4 color retention	60 mins
UV absorbance at 254 nm	0.007
Distillate Quality	Pyrogen Free
Total Plate Count	Zero
Standard Plate Count	Zero
Endotoxin	less than 0.25 EU/ml
Yeast and mould	Zero
Distillate Temperature	65 - 75 oC

\* Due to difficulties in measuring PH for high purity water and the doubtful significance of the value obtained, PH is not specified for high purity water.

**Feed water analysis**

Conductivity	1110 x 10 <sup>-6</sup> S/cm
Total Dissolved Solids	700 mg/lit
Hardness	Less than 5 ppm as CaCO 3

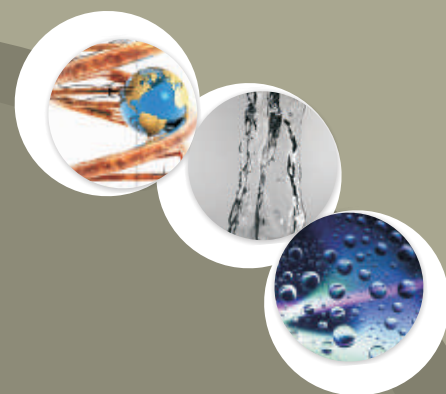
**Note**

- The results mentioned in specifications are obtained under standard laboratory conditions and by using Weiber water treatment Cartridge for raw water.

The use of treated water, as feed to boiler, is highly recommended to prevent scaling in the boiler, to improve the quality of distillate and for longer life of the equipment.

The above equipment produces Grade 1 reagent quality water.

CAPACITY	0.5 ltr / hr	1.0 ltr / hr	2.0 ltr / hr	3.0 ltr / hr	4.0 ltr / hr	5.0 ltr / hr
SINLGE STAGE						
DOUBLE STAGE						





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