

Water Distillation Plants



Water Distillation Unit - Metal (Wall Type)

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.



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

Made of heavy gauge stainless sheet inside and outside, with immersion type heaters. The still provides continuous supply of pyroxene free distilled water and is equipped with brackets for wall mounting plug and cord and connector.

Output 2 ltr/hour

Output 4 ltr/Hour

Output 6 ltr/Hour

Power Requirements: To work on 220/230Volts, 50 Hz single phase AC supply.

Water Distillation Unit - Metal (Table Model)

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.

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WORKING PRINCIPLE

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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

A free standing unit capable of producing pyrogen free distilled water as per IP/BP standards .All contact parts are made of stainless steel mounted on a sturdy MS tubular stand.

CAPACITY

2 ltr
4 ltr
6 ltr
10 ltr
15 ltr
20 ltr
25 ltr

OUTPUT LOAD

2.0 KW
4.0 KW
6.0 KW
10.0 KW
12.0 KW
15.0 KW
20.0 KW

Power Requirements: To work on 220/230Volts, 50 Hz single phase AC supply.

Water Distillation Unit - Glass

Weiber water distillation units produce highly treated and disinfected water for laboratory usage. The distillation process removes minerals and micro-biological contaminants and can reduce levels of chemical contaminants.

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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.



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.

TECHNICAL SPECIFICATIONS

Parameters	Values
Output	2lt/3 lit/5tr/10/20 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

Water Distillation Unit - Quartz

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.

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WORKING PRINCIPLE

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- 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.

FEATURES

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

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
Output	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

FEED WATER ANALYSIS

Conductivity	1 ltr/hr
Total Dissolved Solids	700 mg/lit
Hardness	Less than 5 ppm as CaCO ₃

The above equipment produces Grade 1 reagent quality water.



Kjeldahl & Micro Kjeldahi Distillation Unit

Kjeldahl Distillation Unit

Weiber Kjeldahl Units have a minimum of 3 mantles and a maximum of 6 mantles which are made of a knitted layer of glass fabric combined with flexible heating element, encased in Mild Steel housing. Over and above this layer of glass fabric accommodating the flexible heater, another layer of glass cloth is placed on the lower mantle held firmly by a circular aluminum ring. Temperature ranges from ambient to 350°C controlled by a Sun Vic Energy Regulator with either a single control or individual controls, with corresponding indicating lamps.

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The Weiber DISTILLATION UNITS are provided with a fume duct which is held by clamps (provided with the unit) suspended on a stand having mobility for both horizontal and vertical movements. The Weiber DIGESTION UNITS are provided with the above features along with a condensing tank with individual condensing taps.



Micro Kjeldahl Distillation Unit

The equipment has a very heavy casted top made of high grade stainless steel block of grade SS-304 with room for heating 40 digestion tubes made of highly energy efficient borosilicate glass of 75 ml each. The suitable value heating element are made of high grade kanthal A-I non magnetic wire. These heaters are strategically placed throughout the chamber for uniform temperature distribution through the chamber. The outer casing of the equipment is made of thick PCRC sheet duly pre treated with primers for rust proofing and painted with attractive stove enamel paint or powder coated. The 75mm gap between the two walls is filled with mineral wool to have minimal thermal loss and maximum energy efficiency.

TEMPERATURE RANGE

Temperature Range : 50°C to 350°C

TEMPERATURE CONTROL

Temperature is controlled through electronic solid state temperature controller cum indicator or micro processor based digital temperature controller cum indicator.

TEMPERATURE SENSITIVITY

The temperature is controlled with an efficiency of + 2% (Set Value)

CONTROL PANEL

The control panel is fitted at the side of the equipment, it comprises of mains on/off switch, neon power indicator light, heater on/off indicator light, digital temperature controller cum indicator.



Soxhlet Extraction Unit

The complete soxhlet extraction apparatus consists of solvent reservoir extraction assembly with 6 extraction places with concentric metal rings of various diameter to suit 100 ml flasks to 250 ml flasks and built in steam generator. Complete with stand, clamp holder soxhlet extraction (Condenser) glass and extraction flask of 60 ml volume.

TEMPERATURE RANGE

Temperature Range : 50°C to 350°C.

TEMPERATURE CONTROL

Temperature is controlled through electronic solid state temperature controller cum indicator or micro processor based digital temperature controller cum indicator or hydraulic thermostat with energy regulators.

TEMPERATURE SENSITIVITY

The temperature is controlled with an efficiency of $\pm 2\%$ (Set Value).

POWER REQUIREMENTS

Power 2 KW, Single Phase, 230 Volts.



Water De-ionizer - Double Bed

When high-purity water is essential to your research or manufacturing operation, consider de ionization from Weiber. De ionization is the removal of all ionized minerals and salts from the water through a two step cation / anion exchange process.

Deionization systems can be configured to meet your water quality needs up to 18 megohms specific resistivity in quantities of several hundred gallons per minute to a few gallons per day.

System options include purchase or rental of automatic de ionizers or rental exchange systems in which costs may be charged by tank regeneration or per gallon of water usage.

APPLICATIONS

- Parts washing.
- Lab reagent-grade water.
- Vehicle washing.
- Rinsing of electronic circuit boards.
- Plating.
- Paint lines - E-coat and powder coating.
- Glass / mirror manufacturing.
- Boiler systems.
- Humidifier feed water.
- Printing.

CONSTRUCTION

It consists of an in-built pre filter and very high exchanging capacity non-corrosive CATION and ANION resin columns pre-fitted with imported RESINS for efficient results having treated water parameters conforming to IS-1069/64. It yields chemically pure water equal to multiple distilled water having a conductivity of less than 10 micro siemens / cm and pH of 7.5 to 9pH. Fitted with sturdy PVC multi-control valve and connected direct to water taps. The conductivity meter operates on both AC supply and 9.0 V DC battery. Supplied with one plastic chemical proof regeneration tank and the complete unit is housed in a painted M.S. trolley for easy mobility. Available with analogue as well as Digital conductivity meter.



MODEL NO.

CA-50
CA-70
CA-100
CA-150
CA-200

OUTPUT/HOUR

50
70
100
150
200

Water De-ionizer - Four Bed

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System options include purchase or rental of automatic de ionizers or rental exchange systems in which costs may be charged by tank regeneration or per gallon of water usage.

APPLICATIONS

- Parts washing.
- Lab reagent-grade water.
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Profile

COMPANY PROFILE :

With over a decade of industry experience in manufacturing scientific laboratory instruments, we have established ourselves with the name of ACMAS Technocracy (P) Ltd. to provide highest quality instruments to laboratories, pathologies, entomologies, pharmaceuticals, research centers etc. We have successfully catered the needs of above 600 institutions in India and abroad for the last 22 years. The dedicated and cumulative efforts of ACMAS team members has produced and delivered the comprehensive range of scientific instruments and laboratory products research projects where maintaining a viable record of the performance of the equipment is very essential.

COMPANY'S OUTLOOK :

ACMAS Technocracy (P) Ltd. enjoys an amazing image for high quality scientific laboratory instruments across the globe. The continuous innovative technology and 'Quality Management System Standard' delivers the advanced laboratory experiments and general-purpose measuring instruments solution to various laboratories, sterilizing clean rooms, microbiologies, biotechnologies, pathologies, entomologies, pharmaceuticals, seeds and soil testing, meteorologies food processing. We also believe in providing customized instruments solution to our esteemed clients.

MANUFACTURING FACILITIES :

The company has well built and operated manufacturing facilities that matches the latest system and technique in the industry. Our team strictly follows the quality control standards of ISO 9001:2000 series while designing, developing, manufacturing and delivering the scientific instruments. The manufacturing unit of ACMAS is made with complete state-of-the-art equipments and technologies for producing high quality instruments. We also acquired Environmental Friendly process certifications ISO14001:2004 for our entire range of instruments to ensure reliability and durability in each product.

RANGE OF PRODUCTS :

Our wide array of AUTOCLAVE, INCUBATORS OVENS, LAMINAR AIR FLOW, MOISTURE METERS, WATER DISTILLATION PLANTS, LABORATORY BALANCES, WATER BATH, CENTRIFUGE, COOLING EQUIPMENTS, WATER TESTING EQUIPMENTS, LABORATORY SHAKING MACHINE, MICROTOME, MICROSCOPE, MEASURING INSTRUMENTS AND ALLIED products to ensures accuracy and conformity for significant experiments. We also customize some of our product range and technologies for educational, medical, industrial or other laboratories for better work experience. Our pre sale and post sales support are also admirable and popular among our satisfied clients.

QUALITY STANDARDS :

At ACMAS Technocracy (P) Ltd, we design and develop the complete range of scientific and laboratory instruments with highest quality standards. We constantly update technologies and methodologies to ensure reliability and consistency at each level of instruments production. Our all transparency auditing system are performed by the most reliable D & B International as we want to deliver the world class quality instruments to our national and international clients. We feel proud that our entire product range has brought satisfactory results for the corporate and public sector clients.

PROFESSIONAL TEAM :

The continuous cooperation and support of professional team has helped us to understand and deliver the satisfactory scientific instruments right from basic lab equipment to most sophisticated instruments for research labs. We believe that our tremendous success belongs to our expert engineers, managers, co-workers and other significant team members who have put their best efforts in the growth of the organization. It is their dedication and commitment that makes us the most trusted scientific instruments brand among our all satisfied clients.

FORTE :

We strive hard to cater our clients with best product range and services while meeting international standards. Our aim is to meet the overwhelming demand of the scientific community and provide them the world class quality scientific instruments along with the best after sale support.

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Clients

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Our Presence World Wide



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