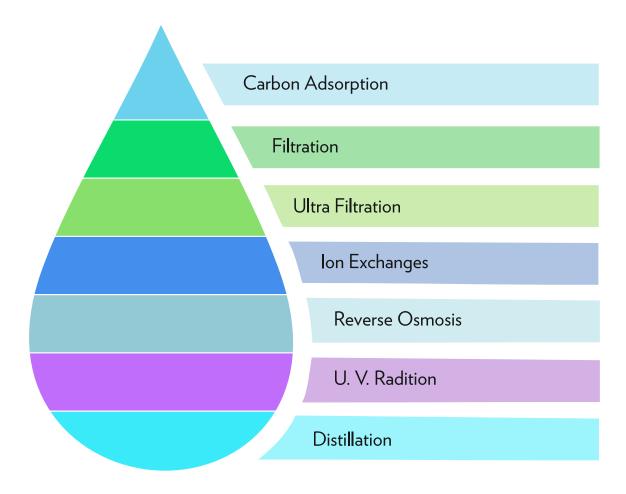


Purity, Precision and Performance Redefined



Water

Purification Methods and Distillation



Of all above Distillation is probably the oldest method of water purification, Involving heating water to create steam, which is then condensed and collected back into liquid form, leaving impurities behind in boiling vessel.

Distillation remains most environmentally sustainable and economical while effectively removing wide range of impurities, including minerals, heavy metals, and volatile organic compounds, Pathogen Elimination by killing bacteria, viruses, and other microorganisms, thus producing high-purity water with low conductivity, making it suitable for various applications, including laboratory work, medical uses, and in industries requiring ultrapure water.

Standard for reagent grade water highlights the superior water quality of water achieved through Quartz or Vitreous Silica stills over water obtained using metal stills. Combining different methods like Distillation, Deionization, Reverse osmosis is often done to achieve comprehensive purification to achieve the specific water quality requirements and the intended use of the water.

All Quartz Water Distillation Units from Borosil facilitate automatic on-demand operation, promotes safe working environment by effectively purifying water through the distillation process.

The Borosil Scientific Quartz Cabinet Double Distillation Unit (QCD) is crafted from Pure Quartz, boasting a remarkable 99.95% SiO2 purity. Quartz, with impurities at a PPM level, is exceptionally well-suited for water distillation, ensuring the highest level of purity.



Auto Dispense Accurate Volume Serial Dispensing

Quartz Cabinet Distillation (QCD250)



All Quartz Construction



Cabinet Assembly Promotes Space-Efficient and Safe Usage



Water Reservoir
Distilled water is stored
eliminating contamination



On Demand Output Produces desired amount of water and auto shut down



Point of Use Dispensing
Distilled water in small quantities
dispensed at your fingertips, for daily lab
applications



Safe Cut-offs/
Dry Run Cut-Off
Safety of user and instrument, along



Optical Level Sensor
Monitors Reservoir filling and
auto on/off of unit.

Quartz Cabinet Double

Distillation Unit

Technical Information

Model	Quartz Cabinet Distillation (QCD)
Capacity Distilled Water Output	2.5 LPH Lit / Hour
Minimum cooling water requirement (Ltr/min)	2 Lit / Min
Heater	Quartz
Boiler	Quartz
Condenser	Quartz
Biological Activity	Pyrogen Free
*Conductivity S/cm	<1 x 10-6
Power consumption (kw)	4.4 kW
Voltage (V)	230V
Dry Run Protection	Yes
On Demand Output	Yes
Storage Mode	Yes
Auto Filling Reservoir	Yes
From Storage Dispense rate (ml/min)	900 ml
HSN Code	84194090
Product Code	BLFRQCD25000000000

Pure water is an excellent solvent and will dissolve carbon dioxide from the atmosphere to form a very dilute solution of carbonic acid with a pH below 7. Pure water typically exhibits a conductivity of 1-2 µS/cm and a pH of 5, primarily due to the slight absorption of CO2 (0.5 ppm) from the surrounding environment.



^{*1} Inlet water TDS < 100 ppm

[#] Note: Because of difficulties associated with measurement of the pH value of high purity water and the doubtful significance values obtained, limits for the pH value of grade 1 & grade 2 water have not been specified.

Laboratory Applications of

Distilled Water

Agriculture Research & Testing



Laboratory Research involvingchemical analysis & biological research

Water Testing



Quality Testings involving chemical analysis & biological research

Environment Testing



Prepare standards, calibrate instruments, buffer preparations

Microbiology



Media Preparations, Buffers, Reagent Dilutions, dilute stains and fixatives, Buffered Peptone Water Preparation

Dairy Industry



Media Preparations,
Buffers, Reagent
Dilutions, Bacterial Plate
counting, Somatic Cell
Counting, Residue tests
or possible contaminations

Cosmetics



Emulsion Formulation, Hydration toskin care,



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