



QUARTZ CABINET DOUBLE DISTILLATION UNIT

Purity, Precision & Performance Redefined

Water

Impurities & Source

Scientific community globally rely on pure water for a myriad of purposes within laboratories.

Utilizing the appropriate level of water purity is a fundamental strategy to attain more consistent and accurate results in laboratory work.

By ensuring a reliable source of pure water within the laboratory, scientists can enhance the reproducibility of experiments, minimize the risk of contamination, and optimize the overall efficiency of their research processes. The adoption of in-house purification systems aligns with sustainable practices, reflecting a commitment to environmental responsibility within the scientific community.

Water is often referred to as the "Universal solvent" due to its excellent solvent properties and contains common impurities



○ Dissolved Minerals like calcium, magnesium, sodium and potassium

○ Suspended Solid particles, such as sand, silt, and clay

○ Micro organisms: Bacteria, viruses, algae, and other pyrogens

○ various chemicals, including pesticides, fertilizers, heavy metals, and organic pollutants

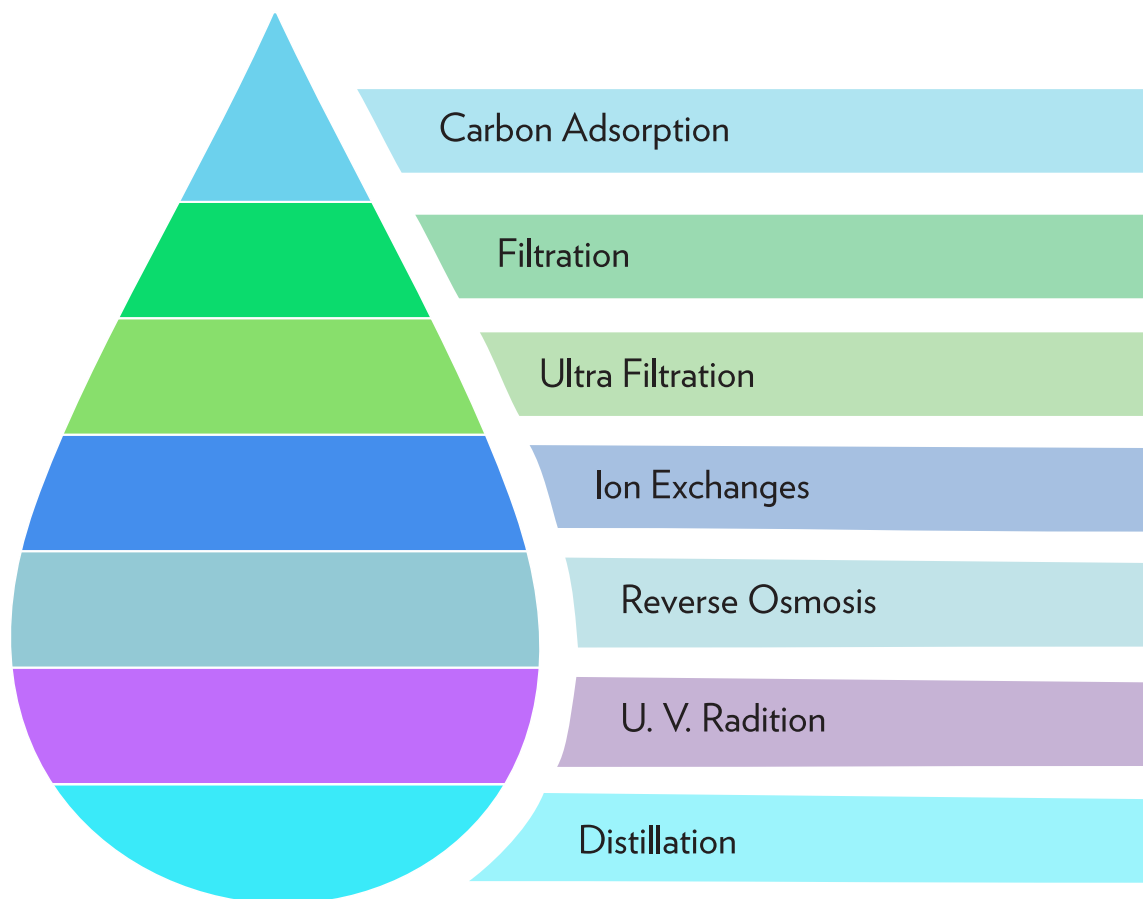
○ Natural organic matter, such as decaying plant and animal material

○ Dissolved Gases viz. Oxygen, Nitrogen and carbon dioxide,

It is important to note that water source exhibits significant variations from one geographical location to another, and these fluctuations can extend to changes from season to season and environmental conditions.

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**
99.95% SiO²



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
with longevity of the instrument



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

Quartz Cabinet Double Distillation Unit



Technical Data & Ordering Information

Model Name	QCD 150	QCD 250	QCD 400
Orientation	Vertical		
Design	Bench Top Cabinet		
Capacity Distilled water Output	1.5 LPH	2.5 LPH	4 LPH
Minimum cooling water requirement (Ltr/min)	2		
Dimensions (L*B*H) along with reservoir	730 × 500 × 1020		
Heater	Quartz		
Boiler	Quartz		
Condensor	Quartz		
Biological Activity	Pyrogen Free		
Conductivity S/cm*	<1 × 10 ⁻⁶		
Power consumption (kw)	3 kW	4.2 kW	8 kW
Voltage (V)	230 V		
Dry Run Protection	Yes		
On Demand Output	Yes		
Storage Mode	Yes		
Auto Filling Reservoir	Yes		
Dispense Range (minimum ml)	10 ml		400
Order Code	BLFRQCD15000000000	BLFRQCD25000000000	BLFRQCD35000000000
HSN Code	84194090		

* Use of RO / Softened water is highly recommended in high TDS region.

Laboratory Applications of Distilled Water

Agriculture Research & Testing



Laboratory Research
involving chemical analysis
& biological research

Environment Testing



Prepare standards,
calibrate instruments,
buffer preparations

Water Testing



Quality Testings involving
chemical analysis
& biological research

Microbiology



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

Cosmetics



Emulsion Formulation,
Hydration to skin care,

Dairy Industry



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



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