



# COSMIC<sup>®</sup>

AN ISO 9001 & 14001 CERTIFIED

“Count on us for purity  
in every drop of your water”

## The Ultimate **Water Purification**

✓ Retains Essential Minerals

✓ 80% to 90% Water Recovery



# Cosmic Water

CSDI Technology Water Purifier



**COSMIC MICRO SYSTEMS PRIVATE LIMITED**  
Bengaluru

**REACH US.**

**98800 15550**

[sales@cosmicups.net](mailto:sales@cosmicups.net)  
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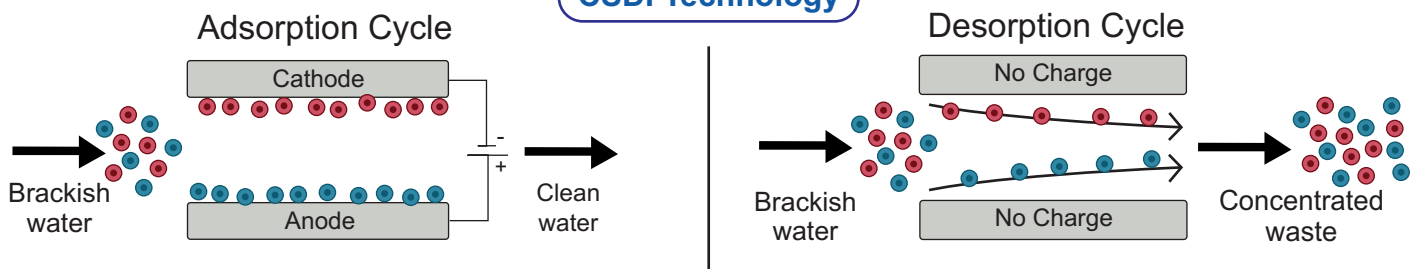
# Centralized Water Purification System

## CSDI Technology

- Up to four cells can be configured in series, for wide range of TDS
- Operation under stable DC voltage by using bipolar electrode
- High water recovery (80-90%) rate, Low energy consumption
- Low Operating & Maintenance Cost, auto Cleaning
- Economical and Eco-friendly, Unique Patent Technology
- No Chemical / Membrane used, Removes Lime scale formation
- Removes Microbiological Contaminations, Removes Sediment



## CSDI Technology



Our patented technology of capacitive deionization works when electricity is applied to the electrode, ions of opposite charge pass through the ion exchange electrode and move to the surface of the electrode and are electrically adsorbed

## ADVANTAGES

When the water source is groundwater, river water, or municipal water, CSDI is the most cost-effective and energy-efficient method of purifying water. CSDI removes the dissolved charged species such as total dissolved solids (TDS), inorganic contaminants, and radionuclides.

- Capacitive Deionization (CSDI) vs. Reverse Osmosis (RO)
- CSDI has an 80% water recovery when purifying to drinking water quality. RO has a 30% water recovery.
- CSDI costs approximately ₹8 per 1000 litres. RO costs ₹15 to ₹25 per 1000 litres.
- CSDI does not require water softening prior to purification. RO does require water softening prior to purification.
- CSDI is a low maintenance system. RO is a high-pressure system across membranes requiring routine maintenance.
- CSDI is capable of leaving some minerals in the water. RO removes everything, including good minerals

## WE PROVIDE COMPLETE SOLUTION

The years have seen us evolve into a full-fledged water treatment solutions provider. Now, we have the technical acumen, product range and service in design, manufacturing, performance evaluation, construction, installation, retrofitting, operation and maintenance, economic evaluation and project management of all type of water purification and treatment.

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# SPECIFICATIONS

FLOW RATE	500LPH
TDS REDUCTION	70 TO 80 PERCENT
WATER RECOVERY	70 TO 80 PERCENT
ELECTRICITY CONSUMPTION	0.5 KW
FEED WATER PRESSURE	2 BAR
SDI CELL	BILPOLAR
POWER SUPPLY	
INPUT	220 VOLT 50HZ AC
OUT PUT	300 VOLT DC 5 AMP
CLEANING	AUTOMATIC
FRAME	MS POWER COATED
PIPING	PVC QUICK FITTING TYPE
SOLOPID	SS 220 VOLT AC
LPS	YES
OVER FLOW CONTROL	YES
MAX FEED WATER LIMIT	1000 PPM HARDNESS 400PPM

Module	CSID 500(lit/h)	CSID 1000(lit/h)	CSID 2000(lit/h)	CSID 3000(lit/h)
Length	28cm (11")			
Width	28cm (11")			
Height	32cm (13")	35cm (14")	53cm (21")	70cm (28")
Weight	20kg (lbs)	25kg (55lbs)	50kg (100lbs)	60kg (132lbs)
Feed Inlet Coupling	1/2" union	3/8" push fit	1/2" push fit	1/2" union
Product Outlet Coupling	1/2" union	3/8" push fit	1/2" push fit	1/2" union
Electrical Connection	2x M8 fine threadrd copper rods			
<b>Operational Requirements</b>				
Instant Flow Rate*	0,2-5L/min (0.05-1.3gpm)	0,4-6,3L/min (0.1-1.7gpm)	1,2-15L/min (0.3-4gpm)	0,1-1,3m <sup>3</sup> /hr (0.4-5.8gpm)
Net Produced Flow*	0,1-3L/min (0.03-0.8gpm)	0,2-4L/min (0.05-1.1gpm)	0,8-12L/min (0.2-3.2gpm)	0,1-0,8m <sup>3</sup> /hr (0,4-3.5gpm)
Maximum Pressure	10 bar (145 PSI)			
Water Temperature	5-60 °C (40 – 140 °F)			



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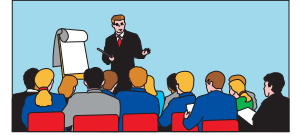
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# COMPANY at A GLANCE !!!

## About Us

Cosmic Micro Systems Pvt. Ltd. is registered under the Company Act 1956 to have a clear vision to grow. Cosmic is a group of dynamic personnel having wide range of experience in Water treatment field who believe that the key to success is total customer satisfaction.



## International Organization for Standardisation (ISO)

Cosmic is certified as an ISO Company having systematic manufacturing & testing facility to ensure reliability, consistency & quality. Documents are maintained to ensure accountability for product quality in all stages of manufacturing.



## Vision

Cosmic is to provide complete water treatment solution to customers and to ensure value for their money. We wish to take the company to new heights to meet the current competition strictly adhering to common values and basic ethics.



## Policy

Cosmic is committed to deliver High Quality Products and Services consistently and enhance customer satisfaction through continual improvement.



## Technology

Cosmic product employs latest, advanced and proven technology using membranes. The systems are highly reliable and provide high Quality, Pure and Safe Water to meet the BIS and International Standards.



## Approvals

Cosmic is a member of Water Quality Association USA, and Indian Water Works Association, for conforming the basic requirements of the customers and year after year customers satisfaction award winner by the Soft Desk media.



## Customer Support

Cosmic has highly trained and skilled personnel to provide a wide range of services from specification, to site analysis, site preparation, assistance, installation, demonstration, system maintenance, on time service to avoid regular work interruptions. Every service call is completed with a service report that details the condition of your cosmic product.



## Installation Base

Cosmic is supported by wide range of valuable customers who are satisfied by our service. Our list of clientele includes beverages, mineral water, fertilisers, textiles, healthcare, dairy, Chemical Industries, Private and Public Limited Companies, State and Central Government Organizations and Residences, etc.



SALES, SERVICE BY :



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