



OUR VISION & MISSION

- To offer our customers affordable and world-class structured water units that enhance overall health and wellness by offering healthy and energized structured water at all times.
- > To help agriculturists and farmers improve their yield and increase production per drop of water.
- > To ensure that dairy and poultry farmers benefit with better yield and produce.
- To improve the quality of water in households and thus contribute to a healthy society

Inspired by nature, Crystal Green has researched and taken an initiative in mimicking the nature's way of energizing, refreshing and purifying water through the use of a process called structuring. All in all, Crystal green plays with the structure of the atoms and places them carefully to give structured water. The Crystal green Water Structuring Unit's unique design achieves the natural spiraling motions and hydrologic cycles of water, creating a measurable increase in water's ability to hydrate and nourish plant and animal tissues, increase nutrients in soil and conserve Structured water ensures healthier plants, animals and human beings. The units can create soft water without taking the life-enhancing minerals like calcium and magnesium out of the water. Crystal green uses bio nutrients like rare earth minerals and quartz compression to produce radiant energy frequencies that effectively reduce the surface tension and cluster size of water. This is what makes Crystal green unique from other structuring units.





How **Hard Water**Effects your home and health?

- Pipes can become clogged with scale that reduces water flow and ultimately requires pipe replacement. Limescale has been known to increase energy bills by upto 25%
- Washing Dishes with hard water may cause spotting and filming on your crockery.
- Solar heating / water heaters, often used for heating water is prone to limescale buildup, which can reduce the efficiency and increase the maintenance.
- Hair can turn rough, dry, unmanageable and frizzy, even by washing your hair with soap leads to possibility of hairfall & Scalp.
- Unregulated Calcium and magnesium salts in the water can cause your skin dry and blis tery, and can cause irritation.
- Clothes washed in hard water often look dingy and feel harsh and scratchy. Continuous laundering in hard water can damage fibers and shorten the life of clothes by upto 40%.

Make your home free ____ from hard water



Soft water makes Skin & hair healthy



Stain free & sparkle Bathroom & floors



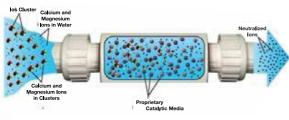
reduces soap & shampoo consumption



Prevents repair & replacement of heaters



Enviro unit is an encapsulation of inner copper which is filled with special formulated crystal media and installed with flow modulator at each end and then locked making Enviro instant ready for installation and use





3 STEP PROCESS







We Are The **Best**For All Your Needs





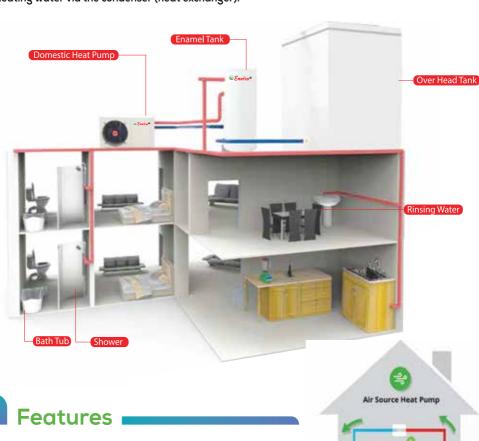






What is Heat Pump

Ambient air is drawn in by the fan and passed over the evaporator. The evaporator cools the air, i.e. it extracts the heat it contains. In the evaporator, the heat removed is transferred to the working fluid (refrigerant). With the aid heat it contains. In the evaporator, the heat removed is transferred to the working fluid (refrigerant). With the aid of an electrically driven compressor, the absorbed heat is "pumped" to a higher temperature level through an increase in pressure and given off to the heating water via the condenser (heat exchanger).





Weather Proof Enclosure



Environment Friendly



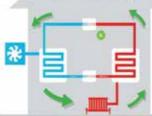
Complete Electrical Protection



Schedule your Heat Pump Daily



55°C Hotble Availa





High Energy Efficiency-COP of 4.2



Split system for flexible installation



Water circulation technology



Low operating co more savings





Air Source Heat Pumps

Delivering Sustainable Heating



Schematic Drawing





High Efficiency

25% higher efficiency by Φ9 mm evaporator 8 Hydrophilic coating on fins to prevent rusting.



High COP Above 3.6

The COP is as high as 3.8 which is even higher than the first class energy level.



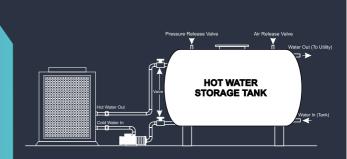
Special Compressor

Heat Pump dedicated Scroll compressor is adopted for high class performance.



Patented Heat Exchanger

Specially designed heat exchanger with large heat exchanging area and compact size.



Technical Specifications

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MODEL	HXHP-C-30	HXHP-C-50	HXHP-C-100	HXHP-C-200	
Power Supply	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	
Voltage Range	380V +/- 10%	380V +/- 10%	380V +/- 10%	380V +/- 10%	
Rated Heating Capacity(i)	12.5kW	20kW	39kW	76kW	
Rated Water Flow(i)	2000 LPH	3600 LPH	6800 LPH	12500 LPH	
Hot Water Production	300 LPH	500 LPH	980 LPH	1920 LPH	
Rated Power Input(i)	3.21kW	5.21kW	10.20kW	19.73kW	
Rated Operation Current(i)	5.0A	11.OA	19.0A	38.0A	
Maximum Power Input	4.15kW	6.8kW	13.2kW	22.4kW	
Maximum Operation Current	9.0 A	13.1 A	23.3 A	45.3 A	
Operation Noise (ii)	70dB	70dB	70dB	70dB	
Refrigerant / Quantity	R417a/1.8Kg	R417a/2.8Kg	R417a/2.8Kg x 2	R417a/2.8Kg x 4	
Refrigerant Pressure High Side	4.2Mpa	4.2Mpa	4.2Mpa	4.2Mpa	
Design Pressure Low Side	3.1Mpa	3.1Mpa	3.1Mpa	3.1Mpa	
Water Side Design Pressure	1.OMpa	1.OMpa	1.OMpa	1.OMpa	
Water Side Pressure Drop(iii)	45 kPa	45 kPa	45 kPa	45 kPa	
Water Connection Size	1 " (25mm)	1" (25mm)	1 1/2" (40mm)	2" (50mm)	
Waterproof Class	IPX4	IPX4	IPX4	IPX4	
Net Weight	120Kg	172Kg	300Kg	560Kg	
Dimensions (LxBxH) (mm)	1120 x 430 x 720	900 x 900 x 1020	1580 x 900 x 1120	1950 x 1200 x 2250	

Note

- (1) Rated condition: Ambient temperature 20/15°C (dry/wet bulb), water temperature 47/52°C (inlet/outlet).
- (2) Sound pressure value at one meter. | (3) Measured at the rated water flow.

Commercial: Restaurant/Kitchens Residential: Villas, Apartments, Guesthouses Institutional: Hospitals, Hotels, Schools, Hostels, Resorts Industrial: Factories, Laundries

Common Applications

Energy Efficient Smart Heating Solution







High COP Above 3.6

The COP is as high as 3.8 which is even higher than the first class energy level.



Special Compressor

Heat Pump dedicated Rotary compressor is adopted for high class performance.



Ultra-quiet Operation

With an improved evaporator with field desogn, the unit is of ultra-quiet operation in commercial building places.



Patented Heat Exchanger

Specially designed heat exchanger with large heat exchanging area and compact size.



Hot Water Storage Tank

4mm-5mm Pressurized tank internally coated Liquid Glass Enameled with 50mm PUF and outer pre-coated Tank Cover.

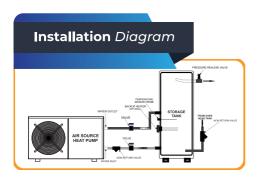


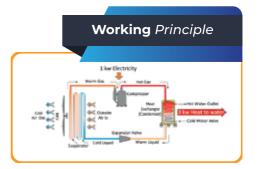


Technical Specifications

Model	HX-R-10	HX-R-20	HX-R-25
Rated Heating Capacity	4 KW	7 KW	10 KW
Rated Input Power	1.05KW	1.84KW	2.62KW
COP	3.7	3.8	3.8
Rated Hot Water Production	100LPH	200LPH	300LPH
Working Ambient Temperature	5°C - 45°C	5°C - 45°C	5°C - 45°C
Max. Outlet Temprature	60°C	60°C	60°C
Power Supply	230V/50Hz/1Ph.	230V/50Hz/1Ph.	230V/50Hz/1Ph.
Rated Current	6A	10A	14A
Water Tank Capacity (Suitable)	200L/300L	500L/750L	750L/1000L
Refregerant	R417A(800gm)	R417A(1100gm)	R417A(1500gm)
Compressor	Rotary	Rotary	Rotary
Net Weight	48kg	58kg	72kg
Size	970x300x500 (mm)	970x350x500 (mm)	1050x350x550 (mm)

All Parameters are at ambient DB20°C/WB15°C to heat water from 20°C to 55°C. | Product proudly manufactured in India





Why Choose Enviro?



We focuses on overall installation performance,



"Make in INDIA, Made for INDIA" Trusted Indian branc with almost 5000+ Chillers installed across INDIA.



Every single heat pump unit is individually and thoroughly tested before installation.



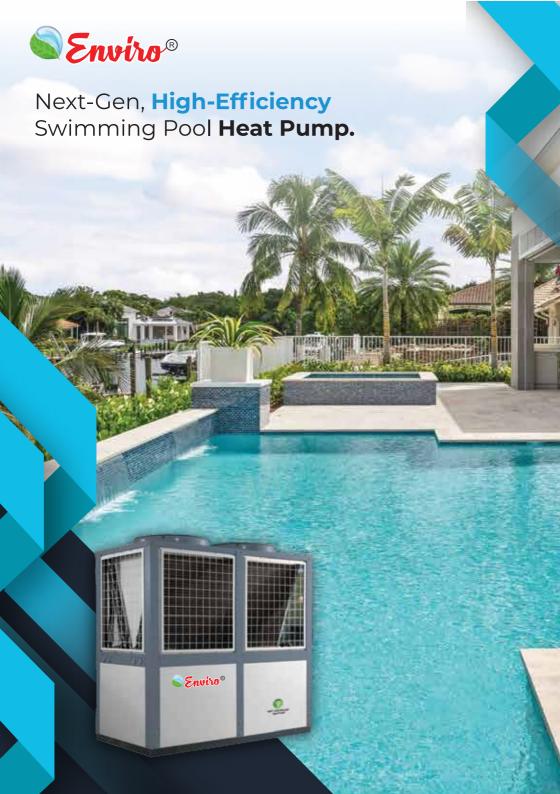
In-house customer support with a guaranteed



Optional extended warranty available for up to 6 years.(IYear Standard + 5Year Extende



Installation support is always available for clients



Heat Pump Specifications

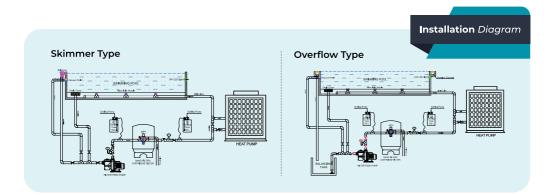


MODEL	SPHP	SP-18	SP-27	SP-35	SP-45	SP-54	SP-70	SP-90
Heating Capacity	kW	18	27	35	45	54	70	90
Rated Power Input	kW	4.5	6.25	8.33	10.72	12.85	16.4	19.7
Rated Current	Α	7.5	10.8	14.8	18.3	20.7	27.5	31.2
Ambient Temp.	C°			+5	C° to +43C°			
Max. Hot Water Temp.	C°	32	32	32	32	32	32	32
СОР	w/w	5.10	5.10	5.10	5.12	5.11	5.12	5.12
Power Supply	V			415V	' 3Ph. 50H	lz		
Compressor Quantity	Nos.	01	01	01	01	02	02	02
Compressor Type	/	High Efficiency Scroll						
Compressor Brand	/	/ Panasonic/Emerson						
Expansion Method	/	/ Thermal Expansion Valve						
Condenser	/	Titanium tube in shell heat exchanger						
Evaporator	/	/ Aluminum foil and inner grooved copper tube heat exchanger						
Working Mode	1	Hot Water						
Cabinet	/	Galvanized sheet metal with powder coating						
Inlet Pipe Size	mm	40	40	40	40	50	50	65
Outlet Pipe Size	mm	40	40	40	40	50	50	65
Min. Water Flow	LPH	8000	12000	16000	20000	24000	31000	38000
Refrigerant	1	/ R417A/R407C/R410A/R22						

Working condition: dry-bulb/wet-bulb temp: 20°C/15°C, Inlet water temp: 26°C, Outlet water temp: 28°C.

Product Attributes

- Max. pool water output temperature: 35°C
- Automatic startup and shutdown
- Automatic defrosting
- High efficiency Scroll compressor
- Easy for plumber installation
- Titanium tube in shell heat exchanger
- Smart digital controller
- Made in India, Made for India





Delivering Sustainable Heating



Schematic Drawing





High Efficiency

25% higher efficiency by Φ9 mm evaporator S Hydrophilic coating on fins to prevent rusting.



High COP Above 2.0

The COP is as high as 2.0 which is even higher than the first class energy level.



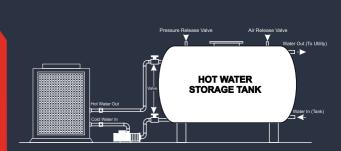
Special Compressor

High Temp. Heat Pump dedicated Scroll compressor is adopted for high class performance.



Patented Heat Exchanger

Specially designed heat exchanger with large heat exchanging area and compact size.



Technical Specifications

MODEL	HXHP-HT-14	HXHP-HT-27.5	HXHP-HT-55
Power Supply	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Voltage Range	380V +/- 10%	380V +/- 10%	380V +/- 10%
Rated Heating Capacity(I)	14kW	27.5kW	55kW
Rated Water Flow(i)	3600 LPH	6800 LPH	12500 LPH
Hot Water Production	300 LPH	600 LPH	1220 LPH
Rated Power Input(i)	5.21kW	10.20kW	19.73kW
Rated Operation Current(i)	11.OA	19.0A	38.OA
Maximum Power Input	6.8kW	13.2kW	22.4kW
Maximum Operation Current	13.1 A	23.3 A	45.3 A
Operation Noise (ii)	70dB	76dB	80dB
Refrigerant / Quantity	R134a/3.1Kg	R134a/3.1Kg x 2	R134a/3.1Kg x 4
Refrigerant Pressure High Side	4.2Mpa	4.2Mpa	4.2Mpa
Design Pressure Low Side	3.1Mpa	3.1Mpa	3.1Mpa
Water Side Design Pressure	1.OMpa	1.OMpa	1.OMpa
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Water Connection Size	1 " (25mm)	11/2" (40mm)	2" (50mm)
Waterproof Class	IPX4	IPX4	IPX4
Net Weight	172Kg	300Kg	560Kg
Dimensions (LxBxH) (mm)	900 x 900 x 1020	1580 x 900 x 1120	1950 x 1200 x 2250

Testing condition: Heating: Ambient temp. (DB/WB): 20°C/15°C, water temp. (input/output): 15°C/75°C.

- Food Processing Textile Industries
- Dying Process
- Plastic Industries
- Dairy Processing
- Chemical Industries

Common Applications

What Is Greywater?

Greywater is a lightly-polluted wastewater generated from activities such as taking shower, washing clothes, washing hands, washing kitchen utensils, etc. This wastewater largely contains suspended solids, dissolved soap and negligible percentage of bacteria.

Breakup of Daily Water Use



• On-site recycling of greywater and reuse of treated water is Economical and sustainable.



- Conservation of 30–35% freshwater by using treated water for toilet flushing, gardening, floor cleaning.
- Improvement of Hygiene and Sanitation in common facilities such as public toilets and urinals.
- Reduced impact on environment and water bodies because of reduction in sewage generation.



Potential Beneficiaries

Residential

- Individual homes
- Apartment complexes
- Affordable housing
- Academic hostels

Commercial

- Public toilets
- Restaurants
- Resorts and hotels
- Office canteens



Enviro Water Solutions, one of the leading Specialist in Water treatment Industry providing State-Of-the-Art technology solutions for Water & Wastewater treatment by adapting the most comprehensive, cost-effective and reliable treatment systems and services.

Enviro Water Solutions offers Design, Engineering, Erection and Commissioning of sewage and effluent Treatment Plants on Turnkey basis which are specifically designed to meet individual site requirements. Combining versatility, efficient processing, reliability and a robust design, which involve Physio-chemical, Biological, Membrane and Filtration Process treated for reduction of BOD, COD & TSS in order to comply with the discharge norms and regulations of the Pollution Control Board.

Enviro Water Solutions manufactures and supplies a wide range of sewage treatment plants, from compact package plants to large scale modular sewage treatment systems. Our cutting-edge, 'off-the-shelf package plants offer environmentally-friendly, legislation-compliant solutions that are simple to install, easy to live with and economical to maintain, while our bespoke solutions are tailored to your exact requirements and will effortlessly deal with all your sewage treatment demands.

Optimal For

- Residential Apartments
- Housing Colonies
- Amusement Parks
- Industrial Establishments
- Hospitals
- · Hotels and Restaurants
- · Educational Institutions
- Special Economic Zones etc.

Technologies We Offer

- Extend Aeration Based STP
- Moving Bed Bio Reactor (MBBR) / Fluidized Aerobic Bio-Reactor (FAB)
- Sequencing Batch Reactor (SBR)
- · Membrane Bio Reactor (MBR)

Designed For Performance

- · Assured availability of water for various secondary uses.
- · Enormous savings in fresh water costs.
- · Lesser Environmental Degradation.
- · Improved public Health.
- Bespoke designs to meet each site's specific requirements.
- Will attain a treatment quality up to: BOD IO mg/l: SS I Omg/l:Amm. Nitrogen 2mg/I (with tertiary treatment).
- Copes with variable flows and loads with unique flow balancing in primary tank.
- · Reliable operation and stand-by facility.
- Segmented biological treatment module, No internal mechanical moving parts.
- Safe, clean accessible air diffuser system with large access lids for easy maintenance.
- · No emptying of tank required during maintenance on the air distribution system.
- · Humus and primary sludge are stored in one place for simple tank operation.
- · Small installation footprint, low installation costs, minimal visual impact.
- A complete in-house design and specification service.

Standard or custom designs I Commercial and industrial applications I Professional service and installation In-house technical support I Startup support I Water & Wastewater Solutions under One Roof Optimum Operation and Maintenance Charges



Types of Sewage Water Treatment Plant





EFFLUENT TREATMENT PLANT







Technology

- Chemical
- Biological
- > Ulfiltration
- > Physical



Our Strength



QUALITY CHECK

Its is quality rather than Quantity that matters



TECHNICAL DEPTH

We develop in depth knowledge, it enable is to give our best



TEAMWORK

We will work together because we know that a strong team will always outperform strong individuals



ASPIRATION

We will aspire to be the best we can be, We will recognise and celebrate success

Our Methodology

We analyze the effluent samples for different effluent parameters as per nature and compositions, carry out the treatability studies by using different methods checking techno-commercial Feasibility and then designed treatment schemes, processes accordingly to suit the purpose and need.

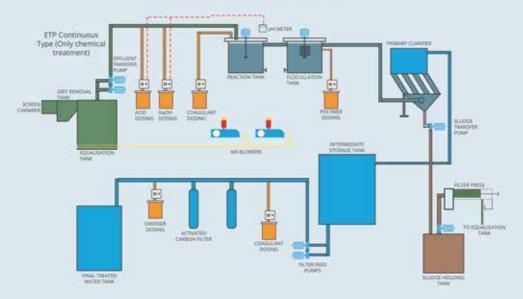




Chemicals used in ETP

- For pH neutralization: Acids (HCI) and base (NaOH).
- Coagulant / Settling Aids: Aluminium Sulphate, Ferric Aluminium Sulphate, Ferric Sulphate, Ferric Chloride, these may be independent or in combination with Poly Electrolytes (Polymers).
- Nutrients: Urea, Di-ammonium Phosphate.
- Disinfectant: Chlorine, Bleaching Powder (Sodium Hypo-chlorite), Ozone.
 Adsorption / Absorption: Activated Carbon.

Flow sheet diagram of Effluent Treatment Plant



Reverse Osmosis Plants

Reverse osmosis (RO) is a membrane-technology filtration method that removes many types of large molecules and ions from solutions by applying pressure to the solution, when it is on one side of a selective membrane. The result is that the solute is retained on the pressurized side of the membrane and the pure solvent is allowed to pass to the other side. To be "selective," this membrane should not allow large molecules or ions through the pores (holes), but should allow smaller components of the solution (such as the solvent) to pass freely. Reverse osmosis is used to purify Water and remove salts and other impurities in order to improve the color, taste or properties of the fluid.



Demineralization (DM) Water Treatment Plants

Demineralization is the process of removing mineral salts from Water by using the ion exchange process.

Demineralised Water is Water completely free (or almost) of dissolved minerals as a result of one of the following processes:

Distillation

Deionization

- Electrodvalisis
- Membrane filtration (reverse osmosis or nanofiltration)
- Or other technologies

Demineralized Water also known as Deionized Water, Water that has had its mineral ions removed. Mineral ions such as cations of sodium, calcium, iron, copper, etc and anions such as chloride, sulphate, nitrate, etc are common ions present in Water. Deionization is a physical process which uses specially-manufactured ion exchange resins which provides ion exchange site for the replacement of the mineral salts in Water with Water forming H+ and OH- ions. Because the majority of Water impurities are dissolved salts, deionization produces a high purity Water that is generally similar to distilled Water, and this process is quick and without scale buildup. De-mineralization technology is the proven process for treatment of Water. A DM Water System produces mineral free Water by operating on the principles of ion exchange, Degasification, and polishing. Demineralized Water System finds wide application in the field of steam, power, process, and cooling.

OUR SERVICE AREA









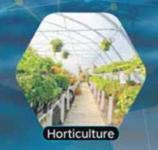
















Our

Clientele





































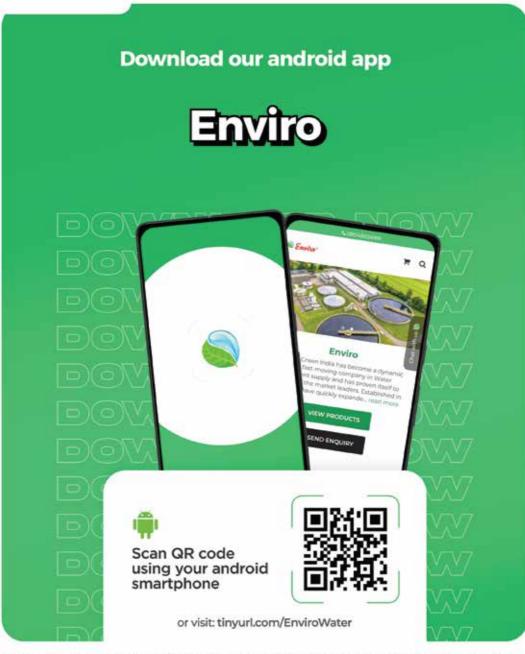












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^{*}App installation steps can change depending on your device model and Android version. Ask us for video instruction for your smartphone brand.







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