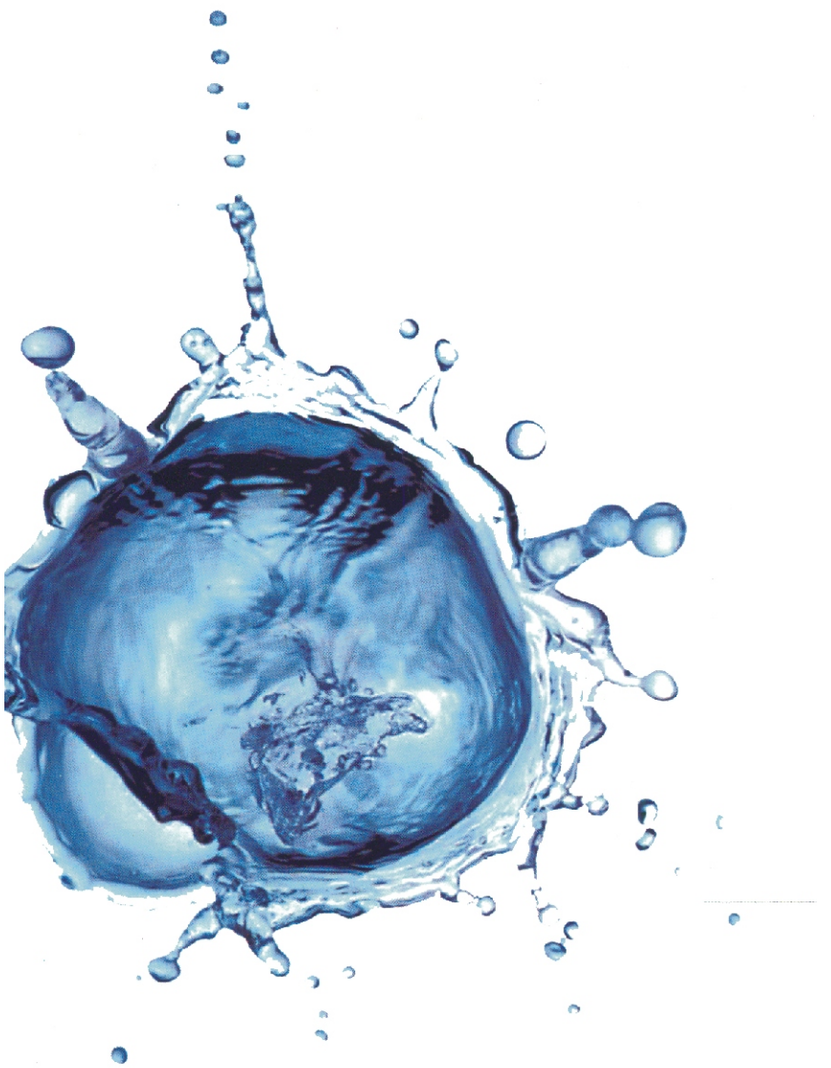
PURE FRESH WATER

Catalogue

Ver 2007 B



WATER IQ

Reverse Osmosis Water Purifier Systems

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ABOUT US

- Started in Year 2003, we are today's quite leading manufacturer for water purification products. We offer the world's most recommended water treatment systems "Reverse osmosis Water Purifier" with cost effective, economical solutions at competitive prices. We have a team of qualified personnels having sufficient product knowledge and skills.
- We adopt innovative products and technologies to enhance product quality & features as per market requirements.
- We are the leader in private Labeling for OEMs / Corporate (Branded) Products.
- Our activites include - Manufacturing and Assembling of RO Systems & Components.

MANUFACTURING	Manufacturers of Counter-Top & Wall-Mount cabinets. Filter Housings in 10" Standard & 11" Deluxe.
.	Adapters, Magnetic Sensors & Float Level Micro-switch.
ASSEMBLING	Private Labeling, OEM Branding.

- We partner with OEMs and Corporates for designing , detailed technical specifications , product literature , performance testing and more for providing exclusive state-of-art product.
- We are also diversifying our portfolio by offering projects in the fields of Water and Wastewater Treatment and reuse, Automation Solutions and Waste Management.
- We are committed to adopt a flexible and open approach towards the needs of our clients and respect their views for being ahead of emerging trends and potential technology breakthroughs.
- We celebrate with glass of pure water whenever the occasion is you.

FEATURES

Premium Quality Design

WATER IQ System's superior design enhances the beauty of your kitchen.

Hygeinic Construction

Each Part that comes in contact with the water is made with high quality Food grade material.

Fully Automatic Operation

Sit back and relax. The Float Level Controller makes sure that the system shuts off when the storage tank gets full and starts when the water level reduces from the maximum.

Airtight Storage Tank

Prevents entry of contaminants in the storage tank.

Water Level Indicator

Transparent Storage Tank lets you check the purified water level in it.

Safety Test

A rigorous safety test is conducted in which water is forced through different parts of the RO system to check if there is any leakage. This eliminates the risk of electric shock.

Customised Design

WATER IQ Systems can be configured as per the requirements of the Customer and quality of feed water.

Warranty

All WATER IQ systems carry one year warranty.

Industrial RO System

WATER IQ reverse osmosis systems incorporate the highest quality components. The system design emphasizes reliability, affordability, ease of operation and system expandability.

WATER IQ reverse osmosis systems produce high quality permeate water from seawater, municipal and well water. The production rate is based on feed water at 25°C, with turbidity of less than 1 NTU, silt density index (SDI) of less than 5. The sea water RO systems are designed for a total dissolved solids of 36,000.

The reverse osmosis process uses semi permeable spiral wound membranes to separate and remove dissolved solids, organic substances, pyrogens, sub micron colloidal matter and bacteria from water. Feed water is delivered under a pressure of approximately 16 kg/cm2 through reverse osmosis membranes. Water permeates the minute pores of the membrane and is delivered as purified water. Impurities in the water are concentrated in the reject stream and flushed to drain. Reverse osmosis is capable of removing 90-99% of total dissolved solids (TDS) in the feed water.

Institutional RO System

RO 300+AF
Capacity : 45-50 ltrs./hr.
Automatic Flushing
Consists of 2 no. of booster pumps and 4 no. of RO membranes.
Dimensions :
490 (W) x 330 (D) x 890 (H)

RO 400+AF
Capacity : 55-60 ltrs./hr.
Automatic Flushing
Consists of 3 no. of booster pumps and 5 no. of RO membranes.
Dimensions :
490 (W) x 330 (D) x 890 (H)

Unique Features

TOUGH STUFF
- Rugged Stainless Steel frame for strong & sturdy looks.
- SS construction provides years of dependable service.

SKID MOUNTED
- Skid mounted RO system for operational ease.

AUTOMATIC RO MEMBRANE FLUSHING SYSTEM
- Auto Flushing of RO Membrane is the world's most modern technique.
- Prolongs life of RO Membrane.
- Can be used in areas with high TDS water.
- High technology design always keeps the best purified water quality.

ALL THE RIGHT CONNECTIONS
- Engineered for the fewest no. of connections points using Push-in fittings - less chance of leakage.

SILENT OPERATION
- Suitable for Single Phase operation.
- Dry run safety feature with Low Pressure Switch.

Note : With continuous research and development in water treatment, a new system is introduced in 50LPH capacity with single membrane operation.

Domestic RO System

R1

WZ 1000

Grand Clear

Unique Features

- Wall Mount /Counter Top RO System
- Modern, aesthetically smart appliance
- Transparent Water Storage Tank
- Leak proof push-in fittings
- Five Stage Filtration
- Auto On/Off
- Silent operation
- Enhanced Filter

Under the Counter RO System

< RO 102+T+M
with Tank &
with Manual Flushing

RO 102-T+M >
without Tank &
with Manual Flushing

< RO 102-T+A
without Tank &
with Auto Flushing

RO 102+T+A >
with Tank &
with Auto Flushin

GE Merlin

Merlin™
Point-of-Use
Drinking Water System

Tested and Certified by the Water Quality Association according to NSF/ANSI 58

Made in USA

Global Product
Available in USA, Europe & Asia

100 LITRES
PER HOUR

Features

- Capacity : 100 Ltrs/hr
- Skid mounted, compact RO system for operational ease
- Incorporates GE Merlin system with pre-treatment along with raw water pump
- Consists of 2 nos. Of GE RO membranes*
- Removes TDS upto 90%

* Permissible input water quality (TDS max.): 1500 ppm

De-ionization Plants

WATER IQ deionization systems are designed and manufactured for dependable service. Mineral tanks are constructed of corrosion-resistant fiberglass. Resin is a high quality polystyrene resin manufactured in USA . Regenerations are initiated when a preset volume of water passes through a water meter. All regeneration controls are fully adjustable. DI units can be custom-designed if the standard product line does not meet your required flow rate or other requirements. Both single and duplex train Auto DI units are available. The duplex train is capable of providing a continuous supply of deionized water. Neutralization and pretreatment systems are on hand to support the Automatic Deionizer.

WATER IQ two-bed deionizers are designed for fully or semi-auto production of water with a conductivity of less than 10 micro-ohms and feature:

- Strong acid cation and type 1 strong base anion resins as the standard, with other resins available as an option.
- Electromechanical/ Microprocessor based control system with conductivity monitor and flow sensor for regeneration initiation.
- Electrical enclosures are corrosion resistant fiberglass, which reduces maintenance costs.
- Resin vessels can be polyethylene-lined fiberglass or rubber-lined steel depending on size and customer requirements.
- ASTM code pipes and fittings.
- Factory assembly and skid mounting for quick installation and minimum startup cost.
- Schedule 80 PVC piping package including air operated composite plastic diaphragm valves is standard. Air or electric actuated ball or butterfly valves are available as an option.
- Pressure regulators, rotameters and metering valves supplied for accurate and safe control of regeneration water and chemical introduction.
- Internal distributors are corrosion resistant, designed for optimum efficiency and are fully supported where required.
- Automatic or Semi-automatic operation. Automatic regeneration when water quality falls below pre-set limit or after manual initiation.
- Constant monitoring of water quality.
- No untreated by-pass water
- Two-stage air mix standard Compact, non-corrosive components
- Steel tanks with rubber lining
- Convenient, modular construction
- Easy, economical installation
- Optional recirculation pumps
- Simultaneous regeneration and chemical displacement

Water Softener

Benefits

- Rejuvenates Bathing experience with more lather.
- Prevents excessive hair loss and makes them soft & healthy.
- Makes skin feel soft & glow after bath.
- Eliminates spots on cutlery & utensils and maintain their shine
- Eliminates scaling in geysers & pipes, thus reducing electricity bills.
- Eliminates white scale deposits in bathroom fittings, tubs, showers and sinks.
- Keeps kitchen & bathroom cleaner.

Hard Water

When water is referred to as 'hard', this simply means that it contains more minerals especially calcium and magnesium. The degree of hardness of the water increases when more amounts of calcium and magnesium are dissolved in it.
Hard water can cause scale build-up in water heaters, pipes, taps and showerheads, thereby reducing its flow. Also, soap and shampoo's ability to lather is reduced and laundry becomes stiffer and duller in appearance.

Measurement of Hardness

Water hardness is measured with five different classifications and can be expressed in mg/liters or parts per million (ppm).

Soft	Below 17 mg/liters or ppm
Slightly Hard	17 – 60 mg/liters or ppm
Moderately Hard	60 – 120 mg/liters or ppm
Hard	120 – 180 mg/liters or ppm
Very Hard	Over 180 mg/liters or ppm

If the hardness is above 120 mg/liters or ppm, one may consider installing a water softener. Above 180 mg/liters or ppm, one may definitely install one. Generally speaking, ground water is hard and should be softened before use.

Water Softeners

Water softeners are specific ion exchangers that are designed to remove ions, which are positively charged, mainly calcium and magnesium ions since calcium and magnesium are referred to as hardness minerals.

A water softener uses resin that replaces the calcium and magnesium ions in the water with other ions, for instance sodium. The exchanger ions are added to the exchanger reservoir as sodium salts (NaCl).

Main Operating Costs

The purchase of salt for regeneration will be the main operating cost. Salt is sold in large bags and can be obtained from any local dealer. The other cost will be the water and energy required for operation and regeneration.

Hydro Pneumatic Pressure Boosting Systems

PRESSURE BOOSTER SYSTEM consists of an automatic pressure controlled pump and a tank , which contains an air filled poly-ether-urethane (PEU) bladder. The water gets pumped in this tank that compresses it and pressurizes the bladder which in turn maintains a desired pressure within the whole water system. This automatic system requires no manual intervention and is built for low maintenance. As the entire home plumbing is kept under pressure by the system it is vital that good standards have been used in water piping and fixtures.

Features :

- Automatic operation of the system, water under pressure whenever required.
- WATER IQ Home Pressure booster system will work in homes with and without the overhead tank. They can replace the overhead tank provided continuous power is available.
- The composite material (FRP) tank ensures that the vessel never corrodes and no harmful traces of metal (as in steel tanks) pass into your water. The tank is made of Food & Drug Administration (FDA) and National Sanitation Federation (NSF) listed materials, thus environmentally safe and will not introduce any undesirable chemicals or elements.

Consistent water pressure on all floors.

- Pressurized full flow shower, which you always wanted.
- Consistent water flow in bathtubs, dishwashers, showers and garden hose.
- The modern fittings like mixers require an optimum pressure to function efficiently. Since this pressure is normally not available with an overhead tank, the booster system makes the presence of such fittings more meaningful.
- Complete and efficient management of water pressure.

Conventional Pressure Filters

Raw water supplies i.e. river waters, dam waters, borewell waters, can be contaminated with high levels of suspended solids - typically:

- iron
- silt
- manganese
- organics
- process foulants

The increasing need to save money on the cost of water and to better use this valuable resource, water re-use and re-cycling on industrial sites is becoming more important.

Filters minimise the build-up of suspended solids in cooling tower systems, under which harmful and troublesome bacteria grow, keeping systems clean and enhancing cooling efficiency.

WATER IQ has filtration plants available to solve all of the above suspended solids problems with filter plants having the following filtration media:

- Graded sand/gravel
- Sand/Anthracite
- Activated carbon
- Iron/Manganese removal media.

The WATER IQ range of standard filter vessels are conservatively sized to give flow loadings per square meter of filter bed which are well within design criteria and which therefore give improved and reliable filtration.

Swimming Pool Filtration Systems

Features

- Environment Friendly
- Automatic Cell Cleaning
- Maintain Peak Cell Life
- High Purifier Production Efficiency
- Energy Efficient
- Modular design
- Quick and simple inspection and cleaning of cells
- Simple 'in field' removal and re-installation of individual components
- Trouble free and long lasting filtration systems
- Virtually eliminates down time and maintenance troubles

Bottling Plant

This equipment is designed specifically for the production of drinking water and non-carbonated beverages, such as water, fruit juice and coolers, packed in PET bottles. Rinsing, filling, and capping are integrated in one, fully automatic synchronized machine.

All production information and automation controls are displayed digitally. Automatic control and manual toggle adjustments are made on a PLC controlled touch-screen panel (Optional).
The bottles are clamped at the neck and suspended for smooth operation even with light weight PET bottles. Empty bottles are rinsed on the inside, and turned over 180 degrees prior to being filled.

Pressure filling nozzles deliver fast, efficient, and accurate dispensing with minimal dripping and leakage

Domestic UF System

Wall Mount

Counter Top

Special
Inline Cartridges

Anti-Scalent Cartridge

▲ Taste Conditioner to increase pH

▲ Infrared Mineralization Cartridge

Control Panels for RO Plants

Multi Port Valves




Pressure Switch & Dosing Pump

Pressure Range

2 – 25 Kg. / cm^2

0.5 - 5 Kg. / cm^2

Standard

Distribution System

BIG BLUE
Filter Housings & Cartridges

BB Housings >

Spun PP >

Carbon > Block

Pleated > Cartridges

Features of BB Cartridges

More Surface Area
Low Pressure Drop
Longer Life
Increased solids / particulate removal
Cleanable and reusable in most applications
Very cost-effective and economical sollution for filtration
Wider Applications

Specifications

Cartridge Material
- Poly Propylene
Filtration Degree
- 1 , 5 ,10 , 20 , 30 micron
Flow Rate
- 3000 to 4000 for 10” Big Blue
- 8000 to 12000 for 20” Big Blue

Applications

As a coarse filtration instead of Pressure Sand Filter (PSF) or as polishing filter for :
Bore well water
Swiming pool, Spas
Effluent Treatment Plants
Pre-treatment for Softener and RO plants
Fountain water bodies
Cooling towers, etc.

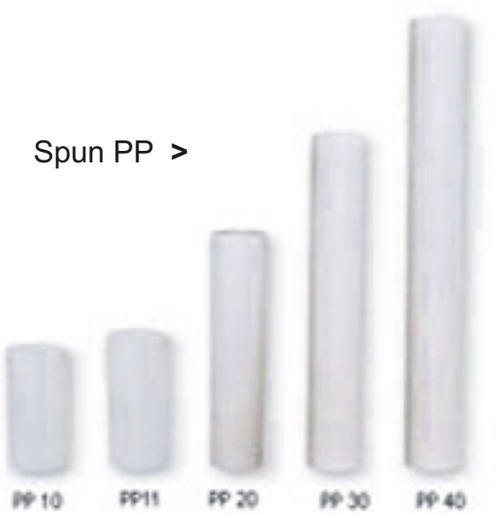
STANDARD
Filter Housings & Cartridges

Pleated > Cartridges

Granular > Carbon

Carbon > Block

Spun PP >



RO Pumps

GenPure 1.35 LPM (100 GPD)

CCK/JEAK

Kemflo 48 V

GenPure 2.80 LPM (250 GPD)

DengYuan 50 GPD (24V)

DengYuan 250 GPD (32V)

RO Membranes

GE IN 1812-HR 75

- CSM 70
- CSM 80
- CSM 100

- DOW 50
- DOW 75
- DOW 100

Inline Filter Cartridges

Sediment Cartridge 2.5", 2.0"

Pre-Carbon Cartridge 2.5", 2.0"

Post-Carbon Cartridge 2.5", 2.0"

Post-Activated Carbon Cartridge

Taste Conditioner to increase pH

Infrared Mineralization Cartridge

Anti-Scalent Cartridge

Adaptors & RO Tanks

- 24 V
- 32 V
- 48-24 V
- 36 V
- 48 V
- 36-24 V

Plastic Tank
"GenPure"
3.2 G = 12 Lts

Plastic Tank
"Kemflo"
4 G = 14 Lts

Steel Tank
"PAE"
10.8 G = 40 Ltrs

Other Components

- LPS
- HPS
- 4-Way
- NRV

- Membrane Housing
- RO Pipe
- Solenoid Valve
- Faucets

- Flow Restrictor
- Manual Ball Valve
- Tank Valve
- Float Level Micro-switch

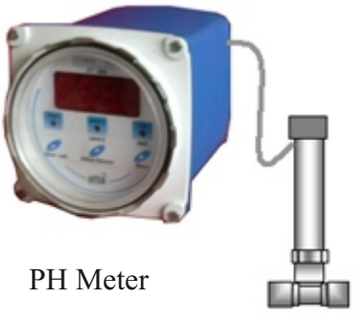
- Push-in Fittings
- C, X Clamps
- Inlet Metal Ball Valve
- Inlet 3-way Diverter

TDS Meters, Electrolyser & Demo Kit

Miscellaneous

OR

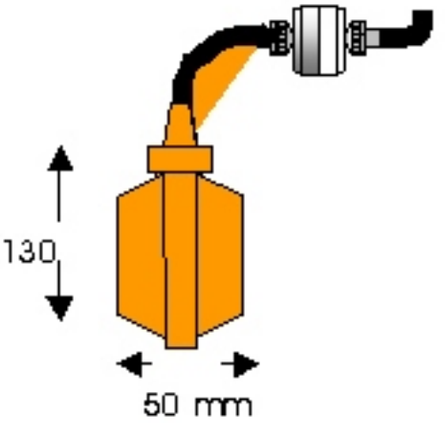
Digital Online Flow Meter

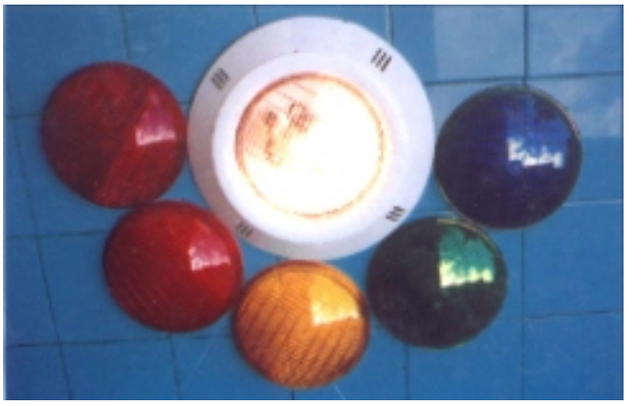


PH Meter

Rotameter

SDI Kit





Swimming Pool Light

< Floaty

*Certificates are for specific components and systems only

'Pure' water is a relative term whose meaning differs with each user's intention. Even the purest water contains substances besides hydrogen and oxygen. In its pure states, water can be one of the most aggressive solvents known.

The water treatment processes that are used in the water quality improvement are often the same techniques found in nature that serve to cleanse and purify water. Man simply copies effective and efficient.

For further details, please contact :

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