



THAICHAROEN INTER-TECH CO., LTD.

บริษัท ไทยเจริญ อินเตอร์เทค จำกัด

Bangkok

300/765 Moo.3 T.Bangrakpattana,
A. Bangbuathong, Nonthaburi 11110
Tel : 66-2920-8620-1, 66-2920-5743
Fax : 66-2920-7781, 66-2920-5744

Sriracha :

102/13 Moo 2 Sriracha Park View Village,
T.Surasak, A. Sriracha, Chonburi 20110
Tel : 0-3831-0829
Fax : 0-3877-4487

Email : tcitgroup@yahoo.com

THAICHAROEN INTER-TECH CO.,LTD. offers the client a comprehensive service covering all aspects of the treatment and disposal of reverse osmosis and deionization, the treatment and use of raw water and recovered water, the treatment and disposal of all associated process control system.

Established in 2000, We are a leading original equipment manufacturer of water and wastewater systems as well as distributor for state of the art engineered products with more than 7 years experience in these fields.

We are a single source of supply for all your water and wastewater treatment needs. We provide a complete range of water and wastewater treatment system and equipment as well as water treatment chemicals and media, ion exchange resin and water testing systems for thai industries. Our business is divided into.

We are the exclusive distributor of many well known manufacturers worldwide. Our products are of high quality with good efficiency. These are;

- Ion exchange resins
- Filter medias
- Cartridge filter and housings
- Ultraviolet system
- Ozone generator
- RO membranes
- Chemical pumps
- Reverse osmosis unit
- Ultra-Filtration unit
- EDI system

We have designed, supply and erected a large number of water and wastewater treatment installations of varying, complexity all over the country. We have the expertise to provide the following equipment and system;

- Deiron filter system
- Activated carbon filter system
- Softener exchange system
- Reverse osmosis system
- Deionization system
- Ultra pure water system (18.0 Mohm/cm.)
- Drinking water system
- Portable water system
- Ultra Filtration system

WATER TREATMENT

Sand, Iron Removal, Activated Carbon, And Sand/Anthracite

- Standardized configuration for all application (removal of suspended solids, iron+manganese, chlorine, colour & taste).
- Standard models available for a flow from 0.5 m³/hr to 70 m³/hr (simplex), unit sizes from 260 mm to 2400 mm.
- All units available for simplex, duplex or multiple unit operation.
- Option of manual or automatic operation.
- Smaller diameter units are with ball valve, larger units are with actuator butterfly valve for automatic operation.
- Simple reliable control system with provision for manual operation.
- Valves and pipe work in corrosion resistant plastic. Units are easy to install & operate. Require minimum maintenance.
- Free standing or skid mounted.
- Customized units can be supplied higher flow rates.

Softener Exchange

- Standard models for flow rates from 1.0 to 50 m³/hr.
- Exchange capacities from 1.0kg to 75kg as CaCO₃
- Choice of regeneration control systems manual or automatic by time, time store and water meter.
- Control options use the latest technology.
- All models designed for simplex, duplex or multiple unit operation.
- Standard units have twin pistons automatic actuator control valve in corrosion resistant polypropylene and PVC Valve provides full 5-cycles regeneration and has manual override.
- 12 or 24 VAC operation for maximum safety.
- Units are easy to install & operation require minimum maintenance.
- Full service backup, installation and commissioning services available.
- Customized units can be supplied for higher flow rates.



THAICHAROEN INTER-TECH CO., LTD.

The ORLEX CIV & CIH Series commercial & industrial reverse osmosis systems are designed for a wide variety of water purification applications production capacity ranges until 1.0 to 100 m³/hr depending on the model and membrane type.



Standard Features

- Thin film, brackish water membrane
- Pre micron filter 5 microns
- Stainless steel high pressure pump
- FRP pressure vessels (300 psi)
- Concentrate/Recirculation/
- Permeate flowmeter
- Low/High pressure protection
- Pressure guage for pre filter
- Pressure guage for high pressure
- Conductivity monitoring
- Automatic flushing
- Control panel with PLC system
- Carbon steel skid mounted

Optional Features

- 316 SS Housing cartridge
- 316 SS High pressure pump
- pH monitoring
- Antiscale dosing pump/dosing tank
- Acid dosing pump/dosing tank
- CIP cleaning system

Applications

- Drinking water and ice process
- Semi conductor planting
- Humidification
- Agriculture
- Battery water
- Laboratories
- Restaurant
- Vending machines
- Photography
- Metal planting
- Car wash



Deionization Two Bed System



- Standard models for flow rate from 0.5 m³/hr to 45.0 m³ /hr
- Exchange capacities for Cation from 1.2 kg to 62 kg as CaCO₃
- Exchange capacities for Anion from 0.5 kg to 25.3 kg as CaCO₃
- Choice of regeneration control systems manual or automatic by time store, water meter and conductivity.
- Control options use the latest technology.
- All models designed for simplex, duplex or multiple unit operation.
- Standard units have twin piston automatic multiport control valve in corrosion resistant polypropylene and PVC valve provides full 5 cycle regeneration and has manual override
- 12 VAC operation for maximum safety
- Units are easy install & operate.
- Require minimum maintenance.
- Full service backup, installation and commissioning service available.
- Customized units can be supplied for higher flow rates.



Mixed Bed

- Standard models for flow rates from 0.5 m³/hr to 65.0 m³/hr.
- Exchange capacities from 0.34kg to 15.5kg.
- Choice of regeneration control systems manual or automatic by water meter and conductivity.
- Control options use the latest technology.
- All models designed for simplex, duplex or multiple unit operation.
- Control by programmable logic controller through individual control valves of corrosion resistant glass reinforced ABS material.
- Vessel constructed of mild steel internally rubber lined.
- Customized units can be supplied for higher flow rates.



Polisher Mixed Bed

Pure water treatment plant for a semiconductor Manufacture. The scheme incorporates media Filter, carbon filter base exchange, Reverse osmosis And mixed bed climatic.

FABRICATION



REFERENCE



THA CHAROEN INTER-TECH CO., LTD.

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THAICHAROEN INTER-TECH CO., LTD.

Sterilight ULTRAVIOLET WATER STERILIZER



Composite Vessels



BAG FILTER VESSELS



KSH Filter Nozzle



Ion Exchange Resins



THE NEW, NEXT GENERATION CODELINE™ HOUSINGS
We set the standard, and now we've set it again.

CodeLine™



Model Number	Drawing Number	Design/Operating Pressure	Maximum Operating Temperature	Qualification Pressure	Element
OCTA 80R15	99119	150 psi / 10 Bar	190 °F / 88 °C	900 psi / 62 Bar	1 - 7
OCTA 80R30	99120	300 psi / 20 Bar	190 °F / 88 °C	1800 psi / 124 Bar	1 - 7
OCTA 80R45	99121	450 psi / 31 Bar	190 °F / 88 °C	2700 psi / 186 Bar	1 - 7
OCTA 80R60	99122	600 psi / 41 Bar	190 °F / 88 °C	3600 psi / 248 Bar	1 - 7
OCTA 80R100	99123	1000 psi / 68 Bar	150 °F / 66 °C	6000 psi / 413 Bar	1 - 7
OCTA 80R120	99124	1200 psi / 82 Bar	150 °F / 66 °C	7200 psi / 496 Bar	1 - 7

CONSULT YOUR SALES MANAGER FOR THE FOLLOWING OPTIONS

- 8 element length vessel
- Intermediate element length vessel
- Specifications of 3-inch ports
- Ultrapure and sanitary packages with high temperature ratings for Pharma and F&B applications

Side port options available: 1.5", 2.0", 2.5"
Please refer to sales drawings for multiport specifications



The Genesis of Membrane Technology

Developed for fluid treatment in residential, commercial and industrial applications, the use of membranes to selectively remove or separate extremely small substances from water and process streams has become a technological success story. There are four types of membrane filtration and separation technologies in commercial use today, effectively removing substances ranging in size from suspended solids to ionic species.

