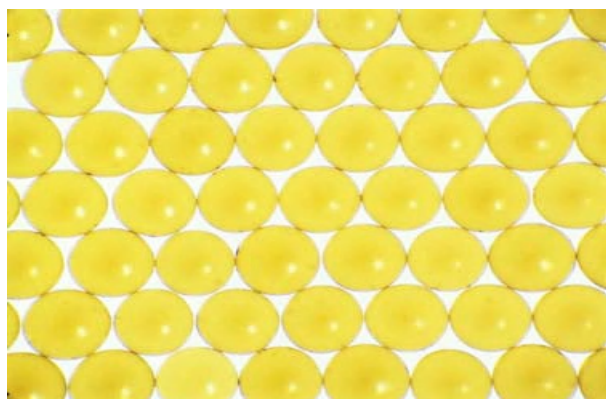




# *Unitech Co., Ltd.*

## **WATER AND WASTE WATER TREATMENT** **DESIGN CONSTRUCTION AND DISTRIBUTOR COMPANY**



**DOW DOWEX ION EXCHANGE RESIN**



**REVERSE OSMOSIS SKID**

## **UNITECH PRODUCT**

### **FILTER & MEDIA**

|              |                                    |                  |                              |
|--------------|------------------------------------|------------------|------------------------------|
| <b>DOWEX</b> | <i>Ion Exchange Resin</i>          | <b>C &amp; S</b> | <i>Australian Anthracite</i> |
| <b>DOW</b>   | <i>Filmtec Membrane</i>            | <b>JACOBI</b>    | <i>Activated Carbon</i>      |
| <b>BIRM</b>  | <i>Iron Remover Filter Media</i>   | <b>ZEOMANGAN</b> | <i>Manganese Zeolite</i>     |
| <b>GE</b>    | <i>E - Cell Stack</i>              | <b>DOW</b>       | <i>EDI Stack</i>             |
| <b>GE</b>    | <i>Cartridge Filter "Purtrex "</i> | <b>MICROPORE</b> | <i>Micron Filter Housing</i> |
| <b>KSH</b>   | <i>Filter Nozzle</i>               | <b>UNITECH</b>   | <i>UF Module</i>             |

### **CHEMICALS**

|                  |                                   |            |                              |
|------------------|-----------------------------------|------------|------------------------------|
| <b>SUMACLEAR</b> | <i>Polyaluminum Chlorohydrate</i> | <b>BWA</b> | <i>Flocon 135, 260, Plus</i> |
|------------------|-----------------------------------|------------|------------------------------|

### **MACHINES AND EQUIPMENTS**

|                 |                 |                  |                               |
|-----------------|-----------------|------------------|-------------------------------|
| <b>GE</b>       | <i>Ozonator</i> | <b>AQUAFINE</b>  | <i>Ultraviolet Sterilizer</i> |
| <b>OZOTECH</b>  | <i>Ozonator</i> | <b>AQUACLEAR</b> | <i>Ultraviolet Sterilizer</i> |
| <b>TRIPLE O</b> | <i>Ozonator</i> | <b>SANITRON</b>  | <i>Ultraviolet Sterilizer</i> |

### **VALVE / PIPING & FITTING / TANK**

|                |   |                  |  |
|----------------|---|------------------|--|
| <b>PRAHER</b>  | <i>PVC / PP / PVDF Valve</i>              | <b>AQUAMATIC</b> | <i>PVC &amp; Metal Diaphragm Valve</i> |
| <b>IPS</b>     | <i>PVC &amp; CPVC Cement &amp; Primer</i> | <b>AGRU</b>      | <i>PP Pipe &amp; Fittings</i>          |
| <b>PUREGEN</b> | <i>FRP Pressure Vessel</i>                | <b>PUREGEN</b>   | <i>FRP Pressure Tank</i>               |

### **INSTRUMENTS**

|                |   |                   |                   |
|----------------|---|-------------------|-------------------|
| <b>SIGNET</b>  | <i>Flow, pH, ORP, Conductivity</i>          | <b>PRAHER</b>     | <i>Flow Meter</i> |
| <b>MYRON-L</b> | <i>Conductivity, Resistivity Controller</i> | <b>BLUE WHITE</b> | <i>Flow Meter</i> |
| <b>GE</b>      | <i>Auto SDI, SDI Test Kit</i>               |                   |                   |

*Thailand's environments has been seriously damaged in these recent years and situation is getting worse owing to the rapidly industrial development . One of the most damaging influence is the untreated waste water from diverse industrial factories.*

*Founded in 1984, **UNITECH CO.,LTD.** is committed to offer the appropriate solutions and to improve the environment with advance technology for treatment and purification.*

***Unitech Co., Ltd.** is one of the pioneers and largest manufactures in the field of water treatment, drinking water, demineralized water, ultrapure water, USP water as well as re-use water system. We have immensely experience in installation of water and waste water system for industrial factories as the following :-*

- |                              |                                |
|------------------------------|--------------------------------|
| <i>- Semiconductor</i>       | <i>- Textile</i>               |
| <i>- Food &amp; Beverage</i> | <i>- Chemical Process</i>      |
| <i>- Pharmaceutical</i>      | <i>- Power Plant (etc....)</i> |

*At Unitech, we emphasize on a total design intergration involving, chemical dosage, monitoring equipment, commissioning after sales service. Basically and for a better & efficient service, the staff of Unitech is composed of 120 engineers and technicians who are highly specialized in order to meet the growing technical requirement of water purification.*

*Due to these activities, Unitech became the authorized distributors of :-*

|  |                                     |
|--|-------------------------------------|
| <i>"DOWEX" Ion Exchange Resin</i>          | <i>Dow Chemical - USA</i>           |
| <i>"DOW" Filmtec Membrane</i>              | <i>Dow Chemical - USA</i>           |
| <i>"PUREGEN" Pressure Vessel</i>           | <i>PureGen Technology Inc.- USA</i> |
| <i>"C &amp; S" Australian Anthracite</i>   | <i>James Cumming - Australia</i>    |
| <i>"SUMMIT" Polyaluminum Chlorohydrate</i> | <i>Summit Research Labs - USA</i>   |
| <i>"TRIPLE O" Ozonator</i>                 | <i>Triple O System, Inc.- USA</i>   |
| <i>"FLOCON" 135, 260, PLUS</i>             | <i>BWA - UK</i>                     |
| <i>"PRAHER" PVC Ball/Diaphragm Valve</i>   | <i>Praher Valves GmbH</i>           |

*To date, the quantity and variety of projects successfully completed by Unitech, demonstrate the commitment of its management toward Thai market.*

*The basic philosophie of Unitech is to meet the need of aboard range of commercial institution and industrial customers throughout Thailand.*

# UNITECH PRODUCTS



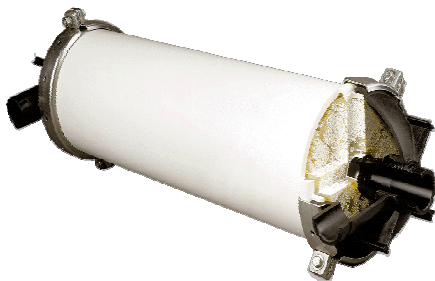
## MEMBRANE & VESSEL

*We provide a wide range of membrane type for example, industrial-size crossflow membrane, cellulose acetate membrane, polyamide thin-film composite membrane.*



## EDI STACK

*EDI is an innovative approach to electrodeionization that replaces conventional mixed bed water treatment technology to delivery dramatic benefits for your operation. Its modular stack-and-rack design makes.*



## UF MODULE

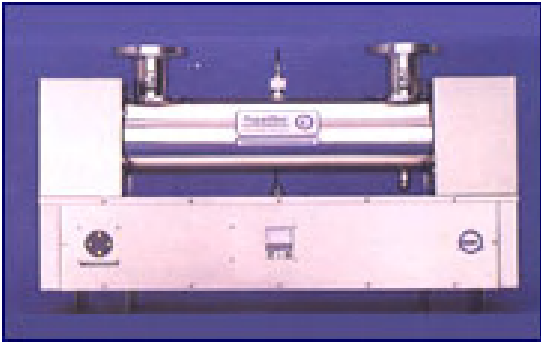
*Our hollow fiber ultrafiltration systems incorporate our UNITECH hollow fiber permeable membrane filter modules with 10" diameter or other modules as specified. In designing total custom made systems, we are able to consult with managers, engineers and operating personnel for proper assessment of ultrafiltration requirement.*



## PUREGEN

*Puregen pressure vessels are a true composite a blow-modeled seamless liner of non-permeable thermoplastic over wound with miles of epoxy or fiberglass laminate for top strength and performance with all industry approvals. In the large commercial and industrial sizes, tanks are constructed with all fiber glass liners.*

# UNITECH PRODUCTS



## ULTRAVIOLET STERILIZER

*Aquafine/Aquaclear Ultraviolet equipments for disinfection, TOC reduction, provide many industrial fields:- electronics, pharmaceutical, food and beverage, aquaculture.*

## PVC / PP SCH.80 PIPE / FITTING AND PVC / PP VALVE

*It is never rust, scale, or pit and will provide many years of maintenance-free service and extended system life, also can handle fluid at temperature up to 60°C. PVC valve provide exceptional chemical and corrosion resistance "Praher" Austria Ball valve, Diaphragm & Check Valve.*



## MICRON FILTER HOUSING / CARTRIDGE FILTER

*Micron filter housing combine superior versatility with maximum value to meet the demands of variety of applications.*

*The depth cartridge filter offer high dirt-holding capacities over a wide range of efficiency levels in the 1-75  $\mu$ m.*

*The pleated cartridge filter media in the industry for exacting particle retention.*

*The activated carbon cartridge filter offer an economical solution inserted of granular carbon filter including superior absorbability and filtration efficiency.*





**CLARIFICATION SYSTEM**



**EDI SKID**

## SYSTEM DESIGN

- CLARIFICATION SYSTEM
- FILTERING SYSTEM
- SOFTENING SYSTEM
- DEMINERALIZATION SYSTEM
- ULTRAPURE WATER SYSTEM
- SYRUP DECOLORIZATION SYSTEM
- ULTRAFILTRATION ( UF )
- NANOFILTRATION ( NF )
- REVERSE OSMOSIS ( RO )
- WATER RECYCLE
- WASTE WATER TREATMENT
- CHEMICAL FOR COOLING TOWER & BOILER



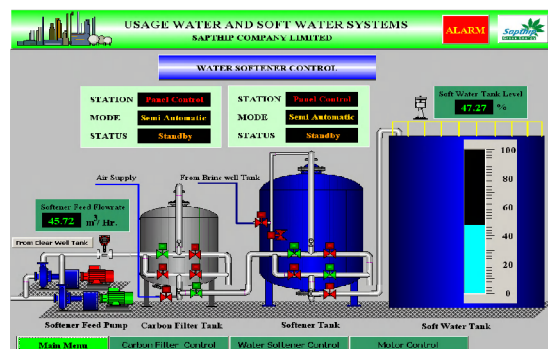
**DEMINERALIZATION SYSTEM**



**REVERSE OSMOSIS SYSTEM**

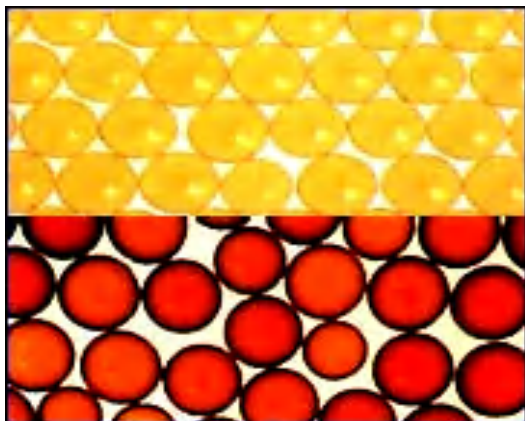


**CONTROL CARBONATE**



**HMI**

## THE UPCORE DEMINERALIZATION SYSTEM BY DOW CHEMICALS



**UPCORE** is a modern packed bed counter-current-ion-exchange technology which has follow of the advantage of a counter current system without the problem of earlier-generator system.

### KEY ADVANTAGE OF **UPCORE**

- Simple design.
- Easy to control & automate.
- Inexpensive.
- Ideal for upgrade.
- Easy configurability of layered beds.
- Optimised vessel volumn utilisation
- Insensitive of flow rate variations.
- Self-cleaning, no separate backwash tank needed.

## THE ULTRAFILTRATION SYSTEM



**Ultrafiltration System or UF** is the latestest membrane-based water filtration technology, provides significant benefits over disposable filters clarification system. **UF** membrane typically have pore size in the range of 0.01 to 0.1  $\mu\text{m}$  and have a high removal efficiency for bacterial and most viruses, colloids and silt.

### KEY ADVANTAGE OF **UF**

- Absolute barrier to remove all colloidal and suspended in feed water.
- Consistent product water quality regardless of feed water quality.
- Reliable and cost effective operation.
- Resistant to strong level of cleaning chemicals.
- Durable and break resistant double walled fiber structure.

**FOR MORE INFORMATION PLEASE FEEL FREE TO CONTACT US**



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