

# COAL CHEMICAL INDUSTRY

#### **VONTRON ZERO Series**

#### Engineering Reference-One chemical zero emission project

The zero liquid discharge project of chemical wastewater is designed to treat 1800m3/h, and the project is implemented in two phases. After the zero liquid discharge project was put into operation, the zero liquid discharge of wastewater in the chemical park was realized. The extracted sodium chloride was used as the raw material of chlor-alkali workshop and mirabilite was sold outside, achieving the goal of resource utilization and zero liquid discharge of wastewater, which has great economic and environmental value.



## ZERO-FR10

Rejection Rate

Permeate Flow

Spacer Thickness

99.7%

11500<sub>GPD</sub> 34<sub>mil</sub>

Temperature at 25°C pH7.0±0.5

Testing Conditions: Operating pressure 225psi (1.55 MPa)

Recovery rate at 15 %

Tested in 2000 mg/L NaCl solution



## ZERO-HP70

99.75% 8800<sub>GPD</sub>

Rejection Rate

Permeate Flow

Spacer Thickness **34**mil

Testing Conditions: Operating pressure 800psi (5.52 MPa) Temperature at 25°C

Tested in 32000 mg/L NaCl solution Recovery rate at 8 %

pH8



## ZERO-UHP120

99.7%

Rejection Rate

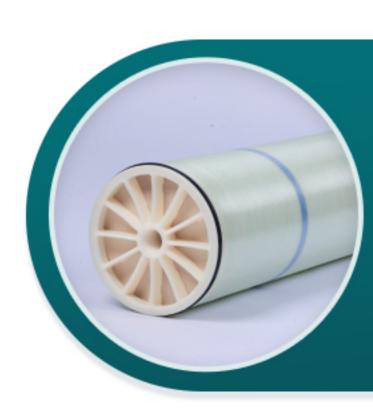
7400<sub>GPD</sub>

Permeate Flow

Spacer Thickness **28**mil

Testing Conditions: Operating pressure 800psi (5.52 MPa) Temperature at 25°C

Tested in 32000 mg/L NaCl solution Recovery rate at 8 %



## ZERO-XS90

99.0%

Rejection Rate

8300<sub>GPD</sub>

Permeate Flow

Spacer Thickness **34**mil

Testing Conditions: Operating pressure 100psi (0.69 MPa) Temperature at 25°C pH7.0±0.5

Tested in 2000 mg/L MgSO, solution Recovery rate at 15 %

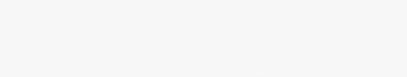
### PROJECT CONTENT

The Chemical Zero Liquid Discharge Workshop, NF System;

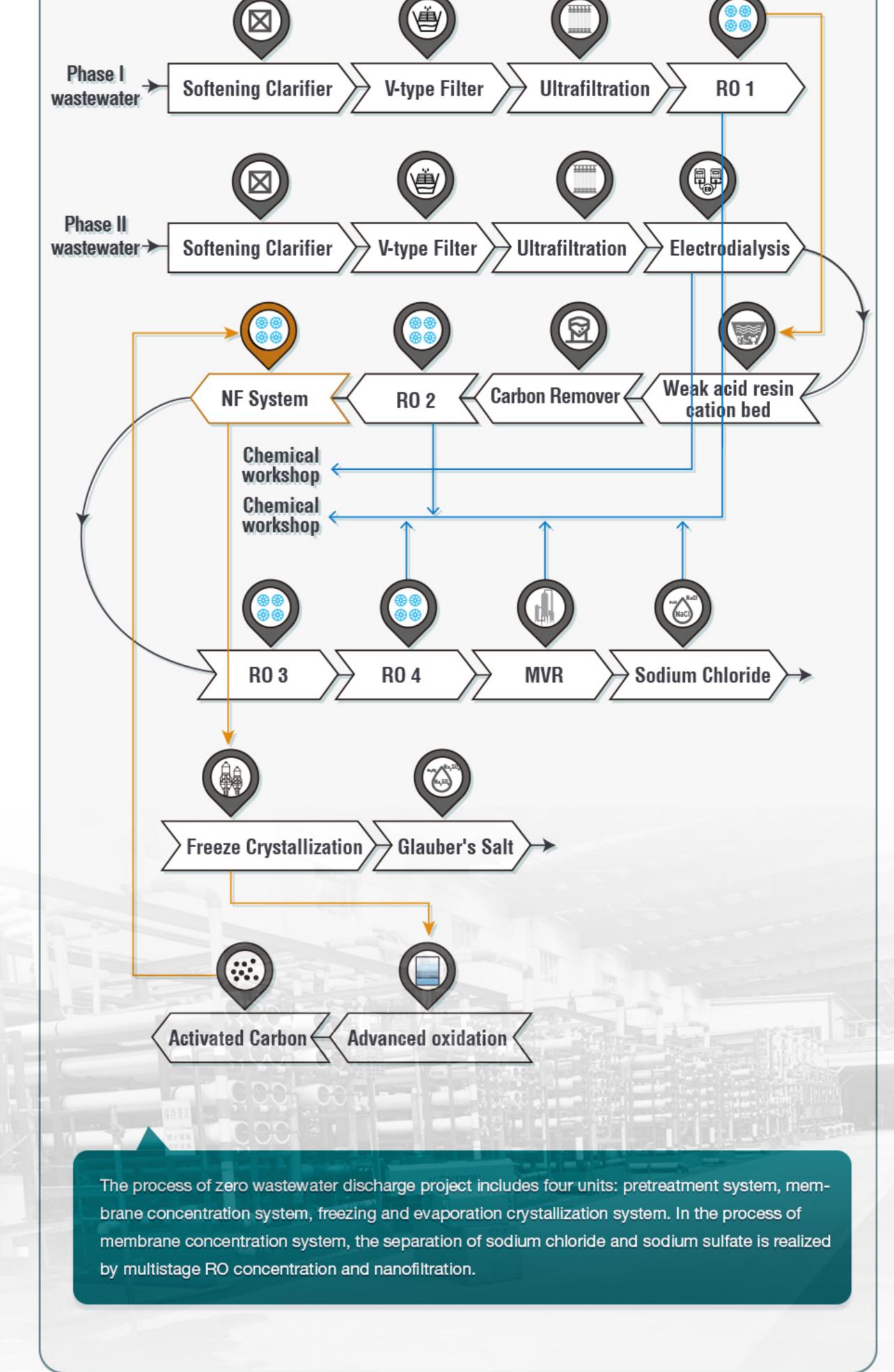
Project name

 Arrangement (6: 3) × 6; Feed Water TDS: 55000-70000 mg/L;

The designed water yield is 54 m<sup>3</sup>/h, and the recovery rate is 65%.



**PROCESS FLOW** 



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