

# High Oxidation Resistant Element - HOR Series

## Production Introduction

HOR (high oxidation resistant) series of aromatic polyamide compound membrane element newly developed by Vontron Technology Co., Ltd. has the properties of low operating pressure, high permeate flow and excellent rejection performance, etc. Besides, the use of special synthesizing process enhances the oxidation property of membrane element and enables the membrane element to endure the impact by certain magnitude of oxidative substance, thus simplifying and optimizing the pretreatment process of RO system, decreasing the microbial contamination of membrane element, saving the operating cost and elongating the service life.

Industrial HOR series is designed for the desalting treatment of those water sources with salinity lower than 10000ppm such as surface water, underground water, tap water and municipal water, etc., and is especially applicable to reuse treatment of those water sources that contain microbial contamination or oxidative substance, such as municipal-purpose or industrial-purpose reclaimed water, electroplating wastewater, etc. The residential HOR-2012 element is mainly applied to various miniature systems such as household water purifier, water purifying devices for hospital and laboratory, etc.

## Specifications and Major Properties

Model	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Average Permeated Flow GPD(m <sup>3</sup> /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
HOR21-8040	365(33.9)	9000(34.1)	99.2	99.0
HOR21-4040	90(8.4)	2200(8.3)	99.2	99.0



### Testing Conditions

Testing Pressure.....	225psi (1.55Mpa) (8040/4040)
Testing Solution Temperature.....	25°C
Testing Solution Concentration (NaCl).....	2000ppm (8040/4040)
pH Value of Testing Solution.....	7.5
Single Element Recovery.....	15%

# Fouling Resistant Element – FR Series



## Production Introduction

### Testing Conditions

Testing Pressure.....	225psi (1.55Mpa)
Testing Solution Temperature.....	25°C
Testing Solution Concentration (NaCl).....	2000ppm
pH Value of Testing Solution.....	7.5
Single Element Recovery.....	15%



FR (fouling resistant) series of aromatic polyamide RO membrane element developed by Vontron Technology Co., Ltd. is applicable to desalination of brackish water. It is characterized by low-pressure operation, higher water productivity and excellent desalting performance. Moreover, special treatment has been made to the surface of membrane with unique technology to change its electrical charge and smoothness, increasing the hydrophilicity of membrane surface, thus decreasing the adhesion of contamination and microbe so as to lessen the pollution and extend the service life of elements.

Vontron's fouling resistant products are designed for desalting treatment of such water with salt concentration less than 10,000 ppm as surface water, underground water, tap water and municipal water, etc. It is mainly applied to treatment of various industrial water applications, such as reuse of industrial reclaimed water and boiler water replenishment for power plant, etc., and is particularly applicable to treatment of those water containing slight organic pollutants such as industrial wastewater, municipal sewage and other slightly contaminated water.

## Specifications and Major Properties

Model	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Average Permeated Flow GPD(m <sup>3</sup> /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
FR11-8040	365(33.9)	9600(36.3)	99.5	99.3
FR11-4040	90(8.4)	2200(8.3)	99.5	99.3

