



# OSMO ASIA PACIFIC LTD.

FACT SHEET

## RO-TFC-V 5200 / 50HZ Reverse Osmosis Systems



Reverse Osmosis Machine  
RO-TFC-V 5200 / 50Hz

### The Model: RO-TFC-V 5200 Reverse Osmosis Machine

is designed to produce up to 820 Lt/Hr (5200 GPD) of pure water. The TFC-V 5200 provides high quality product water, user-friendly controls, durable construction, and easy installation.

#### Standard Features:

- 1.0 or 5.0 micron pre-filter
- Automatic inlet shut-off valve
- Centrifugal type pump
- Two rotameters
- Auto-flush system
- Status indicators
- Adjustable reject recirculation
- Pre-filter, post filter, pump discharge concentrate pressure gauges
- Single source power
- Digital purity monitor
- Mimic diagram c/w pilot lights

#### Typical Applications:

- Hemodialysis
- Safe drinking water
- Research and laboratory use
- Boiler feed water
- Humidification system
- Rinse water
- Ion exchange pre-treatment
- Other commercial applications

#### Operating Parameters

Operating Pressure .....	15 bar (220 psig)
Maximum Recovery .....	60%
Nominal Rejection .....	95-98%
Maximum Operating Temperature .....	40°C (104°F)
Minimum Inlet Pressure .....	2 bar (30 psi)
Design Temperature .....	25°C (77°F)

#### Material of Construction

Frame .....	Epoxy coated steel
Membrane Elements .....	TFC Polyamide
Membrane Housing .....	Polish Stainless Steel
Low Pressure Pipe .....	SCH.80 PVC
High Pressure Pipe .....	Stainless Steel
Control Enclosure .....	NEMA 4
Pump .....	Stainless Steel

---

# RO-TFC-V 5200 / 50Hz

---

## Specifications:

Feed Lt/Hr (GPD)	Permeate Lt/Hr (GPD)	Reject Lt/Hr (GPD)	Recovery %	Quantity Element
1357 (8600)	820 (5200)	537 (3400)	60	3

Motor KW-H	Connection Feed Perm. Conc.			≡ Dimensions (cm) H x W x D	Shipping Weight (Kg)
2.2	3/4"	1/2"	1/2"	160 x 94 x 70	230

## Feed Water Requirements:

The Reverse Osmosis machines require the following feed water conditions:

- Temperature (°C) : 20 to 40
- Functional pH : 5 to 10 (ultimate pH element limit 3 to 11)
- Langelier Index : Negative
- Residual Chlorine (ppm) : Nil
- Fouling Index : < 3
- Total Dissolved Solids (ppm) : < 1500
- Metals – Iron, Manganese (ppm) : < 0.03

\* Recommendation: Should the feed water does not meet above requirement, the typical pretreatment to be considered shall be : Multi-Media Filter (will remove Turbidity)  
: Activated Carbon Filter (will remove Organic Matters, Chlorine)  
: Softener (will remove Hardness, Metals)

## Installation Considerations:

- The system should be installed on a firm, level surface.
- A drain with suitable capability to handle the concentrate flow rate is required.
- A power source of 380V 3PH 50Hz or 460V 3PH 60Hz is required.
- Minimum dynamic operating feed pressure of 2 bar for proper system operation.

## For More Information:

Contact us at +66 (0)2 381 4213 to 7



**OSMO ASIA PACIFIC LTD.**

1044/8 Soi 44/2 Sukhumvit Road, Prakanong, Bangkok 10110, THAILAND.

Tel : 66 (0) 2-381-4213 to 7 Fax : 66 (0) 2-391-8183 Mobile : 66 (0) 81-833-1271

E-mail : [claude@osmoasia.com](mailto:claude@osmoasia.com) Website : [www.osmoasia.com](http://www.osmoasia.com)

PN 08-02 06 REV I