



OSMO ASIA PACIFIC LTD.

FACT SHEET



Reverse Osmosis Machine
RO-TFC-V 1700 / 50Hz

Reverse Osmosis Machine
RO-TFC-V 6900 / 50Hz

Reverse Osmosis Machines

RO-TFC-V Series are designed to produce with:

- **RO-TFC-V 1700:** up to 276 Lt/Hr
- **RO-TFC-V 3500:** up to 552 Lt/Hr
- **RO-TFC-V 5200:** up to 820 Lt/Hr
- **RO-TFC-V 6900:** up to 1,089 Lt/Hr

RO-TFC-V Series combines 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
- Pharmaceutical
- Boiler feed water
- Humidification system
- Rinse water
- Ion exchange pre-treatment
- Commercial applications

Operating Parameters

Operating Pressure	15 bar (220 psig)
Maximum Recovery	50-60%
Nominal Rejection	95-98%
Design Temperature	25°C
Operating Temperature	20 to 40°C
Minimum Inlet Pressure	2 bar (30 psi)

Material of Construction

Frame (skid)	Stainless 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 SERIES Reverse Osmosis Systems

RO-TFC-V SERIES

Specifications:

RO-TFC-V Series	:	1700	3500	5200	6900
Permeate Lt/Hr (GPD)	:	276 (1750)	552 (3500)	820 (5200)	1089 (6900)
Feed Lt/Hr (GPD)	:	458 (2900)	915 (5800)	1357 (8600)	1815 (11500)
Concentrate Lt/Hr (GPD)	:	182 (1150)	363 (2300)	537 (3400)	726 (4600)
Recovery	:	60%	60%	60%	60%
Quantity of Element(s)	:	1	2	3	4
Motor (KW-H)	:	1.5	1.5	2.2	2.2
Connections					
Feed	:	1/2"	3/4"	3/4"	1"
Perm.	:	1/2"	1/2"	1/2"	1/2"
Conc.	:	1/2"	1/2"	1/2"	1/2"
Dimensions (cm)					
Height	:	160	160	160	160
Width	:	70	70	94	94
Depth	:	64	64	70	70
Shipping Weight (Kg)	:	165	200	230	250

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
- Silt Density Index (SDI) : < 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 Website : www.osmoasia.com

PN 03-02 06 REV 2