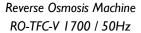


OSMO ASIA PACIFIC LTD.

FACT SHEET







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:

- I.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
- lon exchange pre-treatment
- Commercial applications

Operating Parameters

Operating Pressure	15 bar (220 psig)
Maximum Recovery	
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	
Membrane Housing	
Low Pressure Pipe	
High Pressure Pipe	Stainless Steel
Control Enclosure	NIEMA 1
Pump	

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"	l"
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

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:

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^{*} Recommendation: Should the feed water does not meet above requirement, the typical pretreatment to be