



OSMO ASIA PACIFIC LTD.

FACT SHEET

RO-TFC-V 3500 / 50Hz Reverse Osmosis Systems



Reverse Osmosis Machine
RO-TFC-V 3500 / 50Hz

The Model: RO-TFC-V 3500 Reverse Osmosis Machine

is designed to produce up to 552 Lt/Hr (3500 GPD) of pure water. The TFC-V 3500 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	50-60%
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 3500 / 50Hz

Specifications:

Feed Lt/Hr (GPD)	Permeate Lt/Hr (GPD)	Reject Lt/Hr (GPD)	Recovery %	Quantity Element
915 (5800)	552 (3500)	363 (2300)	60	2

Motor KW-H	Connection Feed Perm. Conc.			≡ Dimensions (cm) H x W x D	Shipping Weight (Kg)
1.5	3/4"	1/2"	1/2"	160 x 70 x 64	200

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:

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PN 07-02 06 REV I