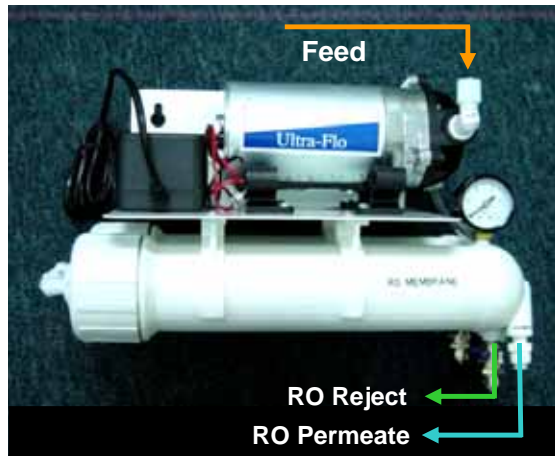


Domestic Water Filter

Ultra-Filtration and Reverse Osmosis Unit



Model: DUFRO-50

Type

UF Configuration : Capillary Type (Out-to-In)
UF material : Hydrophilic Modified PAN
RO Configuration : Spiral Wound
RO Material : Polyamide

Application Data

Type of Operation : UF Dead-end, RO Cross-flow
pH Range : 2 – 12
Operating Temp : 50°C Max
Operating Pressure : 6 – 7 Bar
Permeate Flow Rate : ± 8litres/hr
Feed TDS : < 2000 ppm
TDS Reduction : ≥ 85 %
Recovery : > 50 %

System includes:

1 UF Membrane
1 RO Membrane
1 Pump
Adaptor
(Input 220V,
Output 24V)
Mounting Bracket
Manual Valves
Pressure Gauge
Fitting Accessories

Installation

- 1) Connect the incoming pipe to the feed water port and the outgoing pipes to the RO ports.
- 2) Mount DUFRO-50 unit against the wall and screw in the top of the bracket securely.

Operation- First Time Usage

- 1) Ensure that RO reject valve is at least partially open, then switch on the unit.
- 2) Fully Open UF reject valve to allow flushing of membrane for 1 hour, then fully close the UF reject valve.
- 3) Fully open RO reject valve to allow flushing of membrane for 10 – 15 mins.
- 4) While keeping the UF reject valve fully closed, adjust the RO reject valve until pressure gauge reads 6 – 7 Bar.
- 5) Open the RO permeate outlet. The permeate should flow from the permeate port.

When not in use

Switch off the unit, then fully close the RO reject valve.

Precautions

- Ensure that incoming water is less than 50°C.
- Ensure that membranes are kept in wet condition at all times.
- Do not feed water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Do not use harsh chemicals, oxidising agents, detergents, abrasives, solvents or cleaning fluids as they will damage the membranes.
- Ensure that the RO reject valve is not fully closed at all times when the main switch is on.

Cleaning

The membrane requires cleaning

- When flow rate drops considerably
- After prolonged periods of use

To clean:

- 1) Fully open UF reject valve and drain water out for 3 – 5 mins.
- 2) Close the UF reject valve.
- 3) Fully open RO reject valve and drain water out for 2 – 3 mins. RO reject can be discharged or stored for general washing purposes.
- 4) Adjust the RO reject valve until pressure gauge reads 6 – 7 Bar.



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