

**Product Features:**

- ✓ Finest quality components
- ✓ Base frame resistant to corrosion
- ✓ All parts selected for longer life
- ✓ High performance and energy saving
- ✓ Easy to install

**Applications:**

Food & Beverage processing, Ice making, Drinking water. Process water, Car wash, Pharmaceutical, Dialysis plants, Agricultural, Metal flushing.

**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR2 - S**
**Standard Range Features**

- ✓ Open frame design for easy operation and service
- ✓ Long lasting corrosion resistant pressure vessels
- ✓ Thin film composite RO elements
- ✓ Pre-filter 5m cartridge
- ✓ Positive displacement rotary vane pump complete with motor
- ✓ Recycle throttle valve to increase system recovery in Stainless Steel
- ✓ Non-return valve to prevent backflow
- ✓ Line mounted flow meters for product and reject flow rates
- ✓ Feed water low pressure switch for pump protection
- ✓ Solenoid valve at inlet to stop flow when system is idle
- ✓ Auto flush system to periodically flush RO elements thus reducing scale formation and fouling


**Series NR2-S**

Model	Capacity	Electrical	Motor	Recovery	Recycle	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /day	mm
NRX1S	1.2	220V/1P/50Hz	0.75	8%-10%	0-0.15	800X450X800
NRX2S	2.4	220V/1P/50Hz	0.75	15%-20%	0-0.15	800X450X800
NRX3S	3.6	220V/1P/50Hz	0.75	20%-30%	0-0.15	800X450X800
NRL-21S	2.0	220V/1P/50Hz	0.75	15%-30%	0-0.20	1250X450X800
NRL2S-21S	4.0	220V/1P/50Hz	0.75	30%-60%	0-0.25	1250X450X800
NRL3S-21S	6.0	220V/1P/50Hz	0.75	40%-60%	0-0.30	1250X450X800
NRL4S-21S	7.5	220V/1P/50Hz	0.75	50%-65%	0-0.10	1250X450X800

Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux to be less than 32 L/m<sup>2</sup>h.

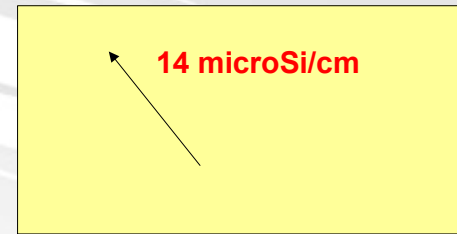
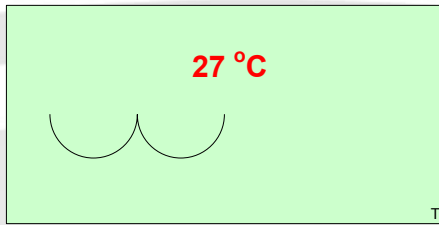
**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR2 - P**
**Premium Range (Additional to Standard Range)**

- ✓ Electronic conductivity meter on product
- ✓ Electronic temperature meter on feed
- ✓ Programmable Logic Control for fully automatic operation
- ✓ Mimic diagram with indicator lights


**Series NR2-P**

Model	Capacity	Electrical	Motor	Recovery	Recycle	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /day	mm
NRX1P	1.2	220V/1P/50Hz	0.75	8%-10%	0-0.15	800X450X800
NRX2P	2.4	220V/1P/50Hz	0.75	15%-20%	0-0.15	800X450X800
NRX3P	3.6	220V/1P/50Hz	0.75	20%-30%	0-0.15	800X450X800
NRL-21P	2.0	220V/1P/50Hz	0.75	15%-30%	0-0.20	1250X450X800
NRL2S-21P	4.0	220V/1P/50Hz	0.75	30%-60%	0-0.25	1250X450X800
NRL3S-21P	6.0	220V/1P/50Hz	0.75	40%-60%	0-0.30	1250X450X800
NRL4S-21P	7.5	220V/1P/50Hz	0.75	50%-65%	0-0.10	1250X450X800

Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux to be less than 32 L/m<sup>2</sup>h



Control ON

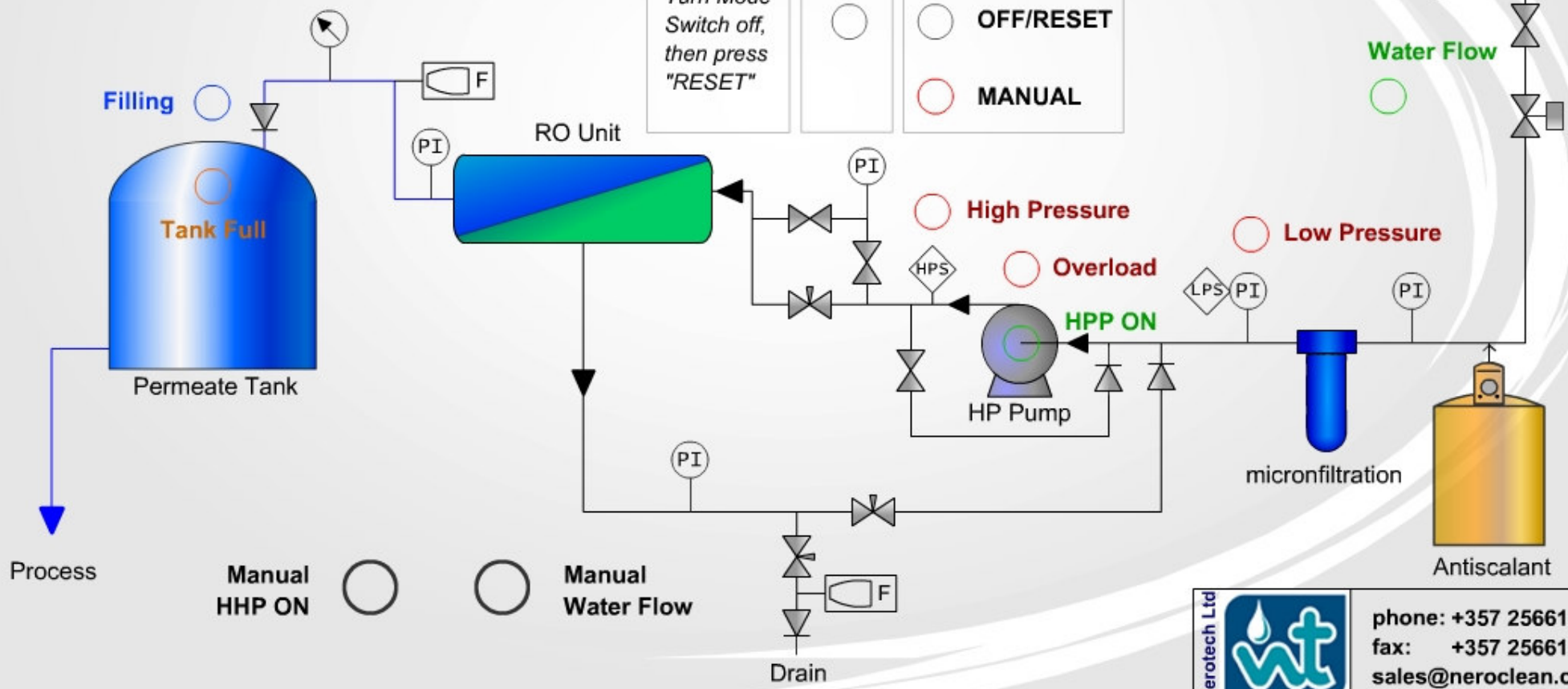
**Mode Switch**

To RESET: Turn Mode Switch off, then press "RESET"

AUTO

OFF/RESET

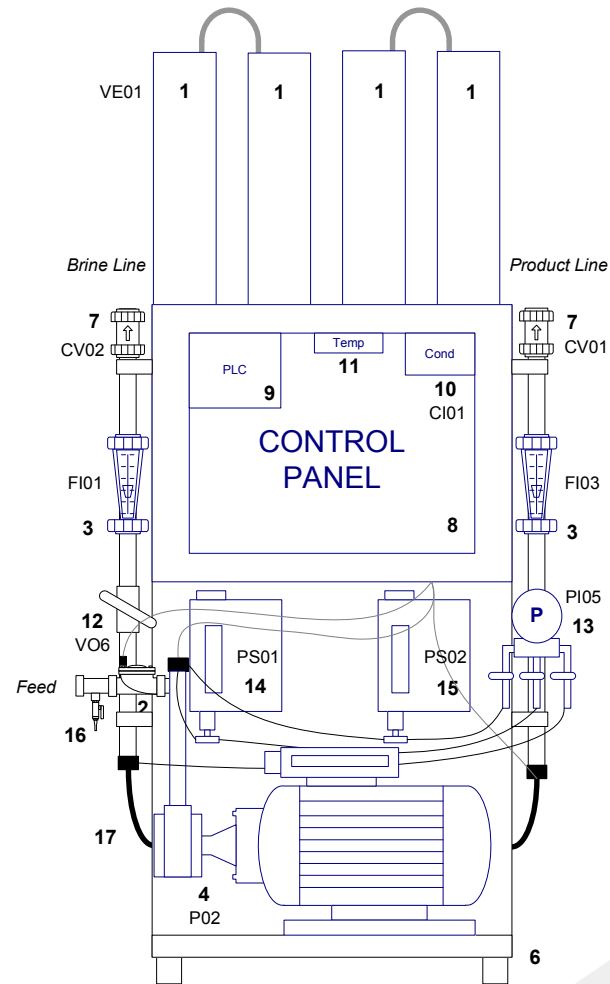
MANUAL



# N2 Series RO Units

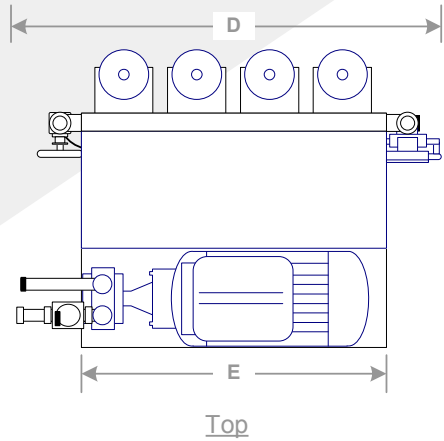


1. Membrane Pressure Vessel (VE01)
2. Solenoid Valve
3. On line Flow meter (FI01, FI03)
4. High Pressure Pump (P02)
5. Motor
6. Frame
7. Non-Return Valve (CV01, CV02)
8. Power and Control Panel
9. P.L.C. Control
10. Digital Conductivity Indicator (CI01)
11. Digital Temperature Indicator
12. Regulating Valve (V06)
13. Pressure Indicator (PI05)
14. Low Pressure Switch (PS01)
15. High Pressure Switch (PS02)
16. Sample Valve
17. Piping

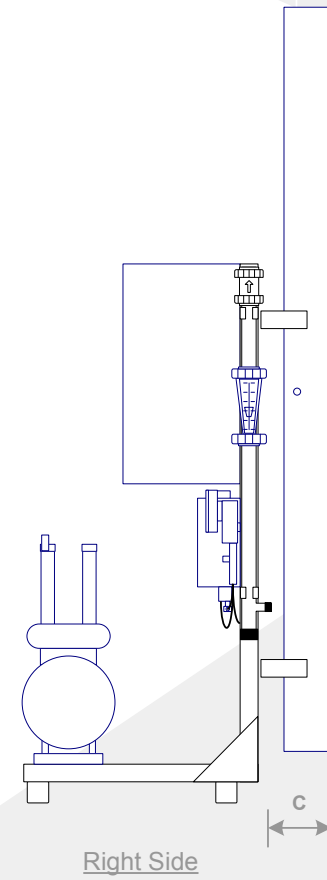
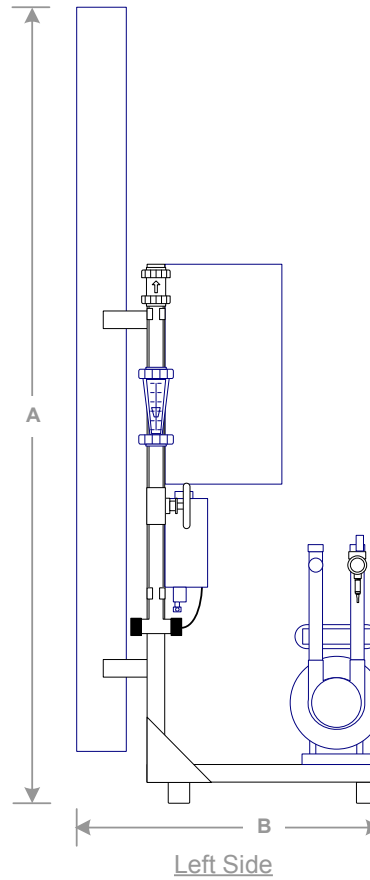


Front

# N2 Series RO Units



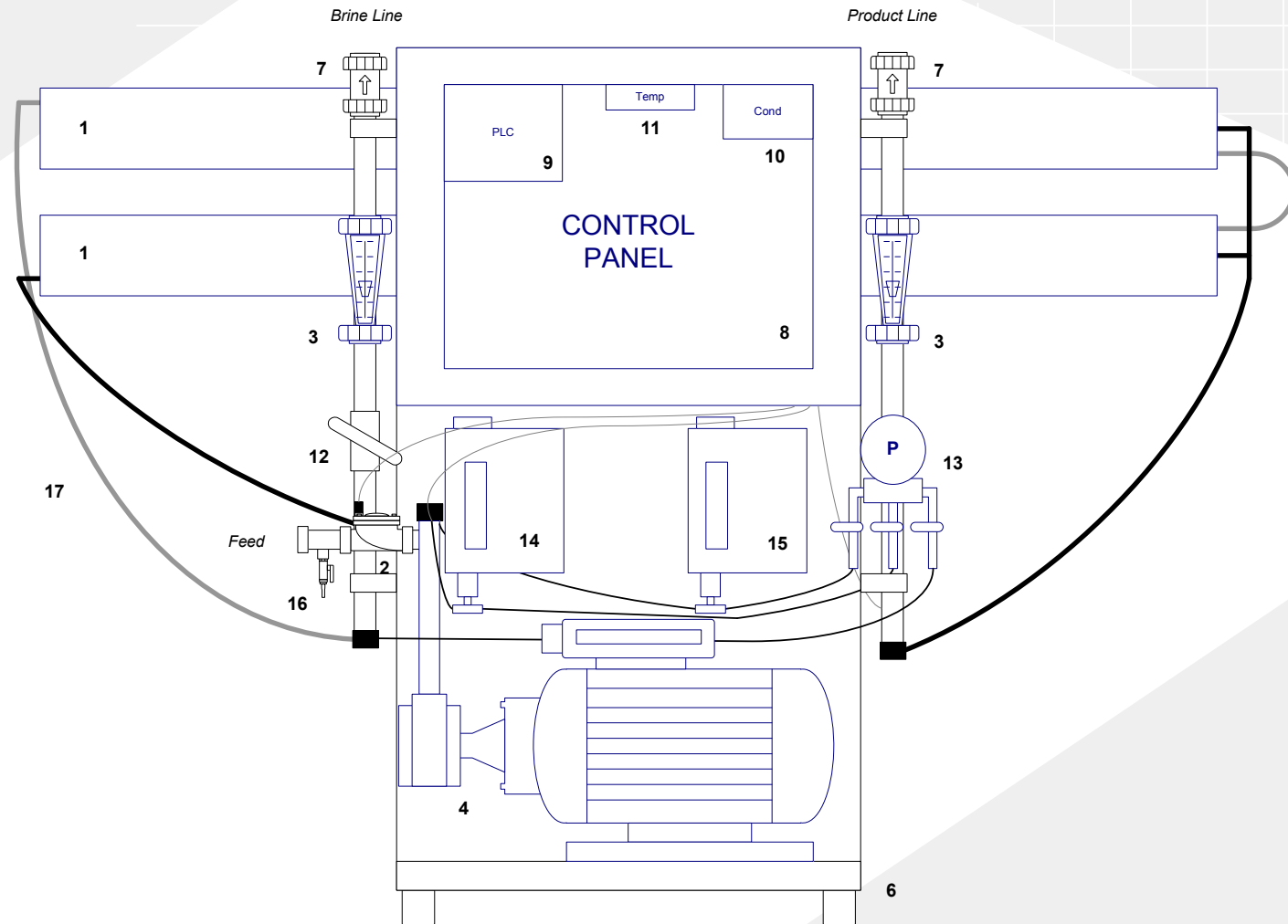
<b>Dimensions (mm)</b>					
<b>MODEL</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
NRX1-21	1250	450	90	550	435
NRX2S-21	1250	450	90	550	435
NRX3S-21	1250	450	90	550	435
NRX4S-21	1250	450	90	550	435



# N2 Series RO Units

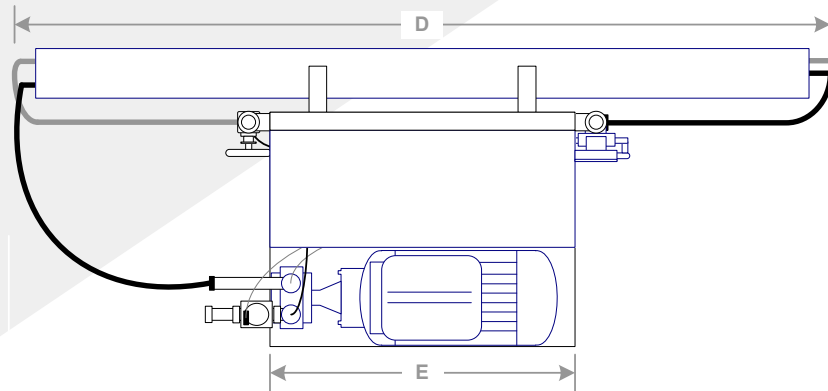


1. Membrane Pressure Vessel
2. Solenoid Valve
3. On line Flow meter
4. High Pressure Pump
5. Motor
6. Frame
7. Non-Return Valve
8. Power and Control Panel
9. P.L.C. Control
10. Digital Conductivity Indicator
11. Digital Temperature Indicator
12. Regulating Valve
13. Pressure Indicator
14. Low Pressure Switch
15. High Pressure Switch
16. Sample Valve
17. Piping

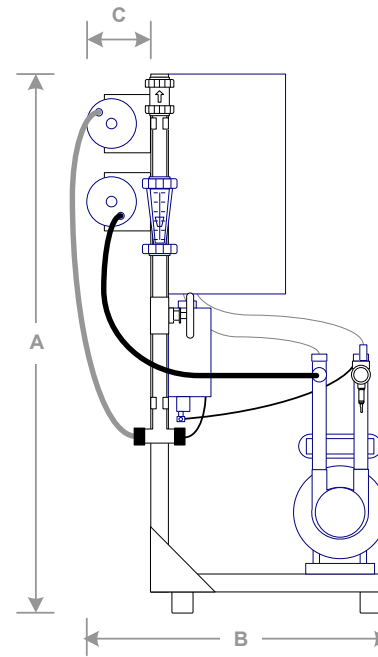


Front

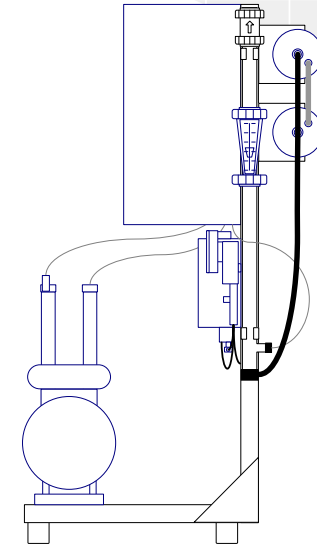
# N2 Series RO Units



Top



Left Side

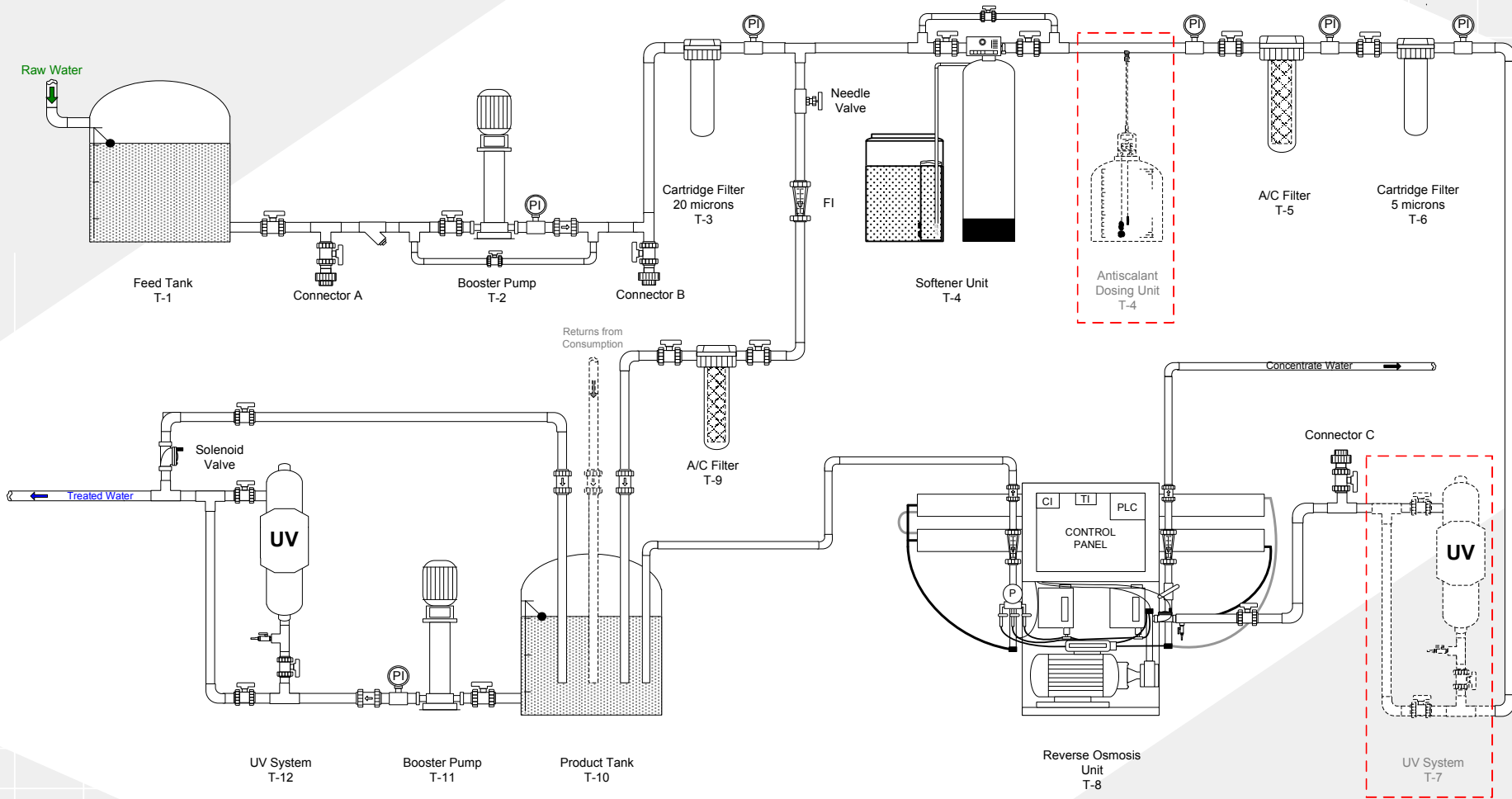


Right Side

### Dimensions (mm)

MODEL	A	B	C	D	E
NRX1	800	450	90	800	435
NRX2	800	450	90	800	435
NRX3	800	450	90	800	435
NRL1-21	800	450	90	1250	435
NRL2S-21	800	450	90	1250	435
NRL3S-21	800	450	90	1250	435
NRL4S-21	800	450	90	1250	435

# Reverse Osmosis Flow Diagram



**Product Features:**

- ✓ Finest quality components
- ✓ Base frame resistant to corrosion
- ✓ All parts selected for longer life
- ✓ High performance and energy saving
- ✓ Easy to install

**Applications:**

- ✓ Food & Beverage Processing
  - ✓ Drinking Water
  - ✓ Process Water
  - ✓ Pharmaceutical
  - ✓ Agriculture

**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR4 - S**
**Standard Range Features**

- ✓ Open frame design for easy operation and service
- ✓ Long lasting corrosion resistant pressure vessels
- ✓ Thin film composite RO elements
- ✓ Pre-filter 5m cartridge
- ✓ Positive displacement rotary vane pump complete with motor
- ✓ Recycle throttle valve to increase system recovery in Stainless Steel
- ✓ Non-return valve to prevent backflow
- ✓ Line mounted flow meters for product and reject flow rates
- ✓ Feed water low pressure switch for pump protection
- ✓ Solenoid valve at inlet to stop flow when system is idle
- ✓ Auto flush system to periodically flush RO elements thus reducing scale formation and fouling


**Series NR4-S**

Model	Capacity	Electrical	Motor	Recovery	Recycle	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /day	mm
NRX2S-41S	12	415V/3P/50Hz	2.20	30%-50%	0-0.5	800x600x1300
NRX3S-41S	18	415V/3P/50Hz	2.20	40%-65%	0-0.5	800x600x1300
NRX4S-41S	24	415V/3P/50Hz	2.20	50%-65%	0-0.5	800x600x1300
NRX2S-42S	24	415V/3P/50Hz	2.20	50%-65%	0-0.5	2450x600x1050
NRX21-42S	36	415V/3P/50Hz	2.20	50%-55%	0-0.6	2450x600x1050
NRX2S-43S	36	415V/3P/50Hz	3.00	60%-70%	0-0.6	3450x600x1050
NRX21-43S	56	415V/3P/50Hz	3.00	50%-70%	0-0.7	3450x600x1050

Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux to be less than 32 L/m<sup>2</sup>h

**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR4 - P**
**Premium Range (Additional to Standard Range)**

- ✓ Electronic conductivity meter on product
- ✓ Electronic temperature meter on feed
- ✓ Programmable Logic Control for fully automatic operation
- ✓ Mimic diagram with indicator lights


**Series NR4-P**

Model	Capacity	Electrical	Motor	Recovery	Recycle	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /day	mm
NRX2S-41P	12	415V/3P/50Hz	2.20	30%-50%	0-0.5	800x600x1300
NRX3S-41P	18	415V/3P/50Hz	2.20	40%-65%	0-0.5	800x600x1300
NRX4S-41P	24	415V/3P/50Hz	2.20	50%-65%	0-0.5	800x600x1300
NRX2S-42P	24	415V/3P/50Hz	2.20	50%-65%	0-0.5	2450x600x1050
NRX21-42P	36	415V/3P/50Hz	2.20	50%-55%	0-0.6	2450x600x1050
NRX2S-43P	36	415V/3P/50Hz	3.00	60%-70%	0-0.6	3450x600x1050
NRX21-43P	56	415V/3P/50Hz	3.00	50%-70%	0-0.7	3450x600x1050

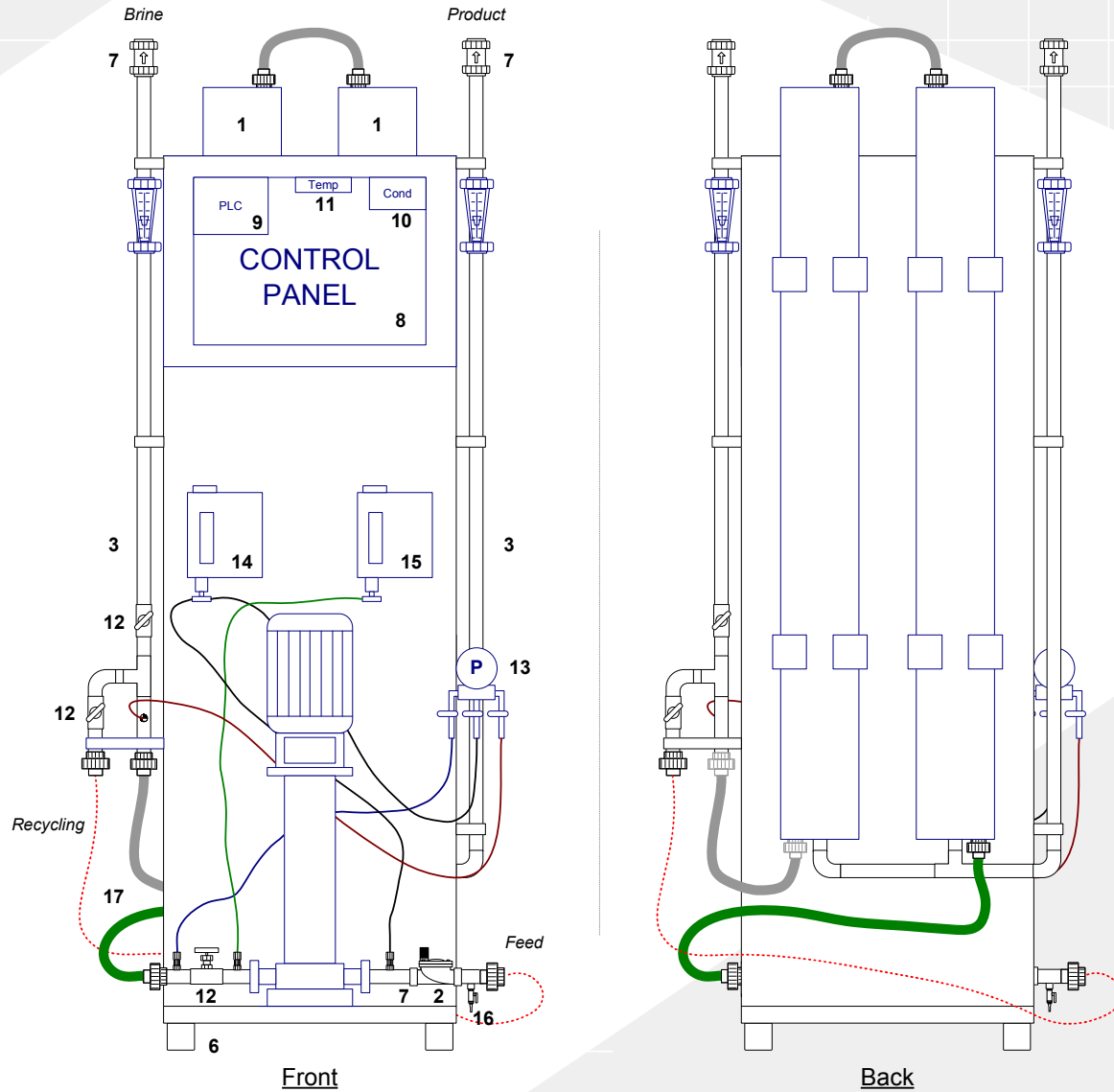
Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux to be less than 32 L/m<sup>2</sup>h



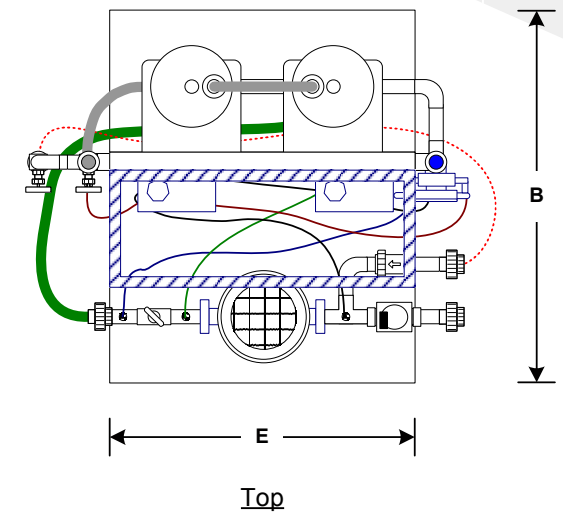
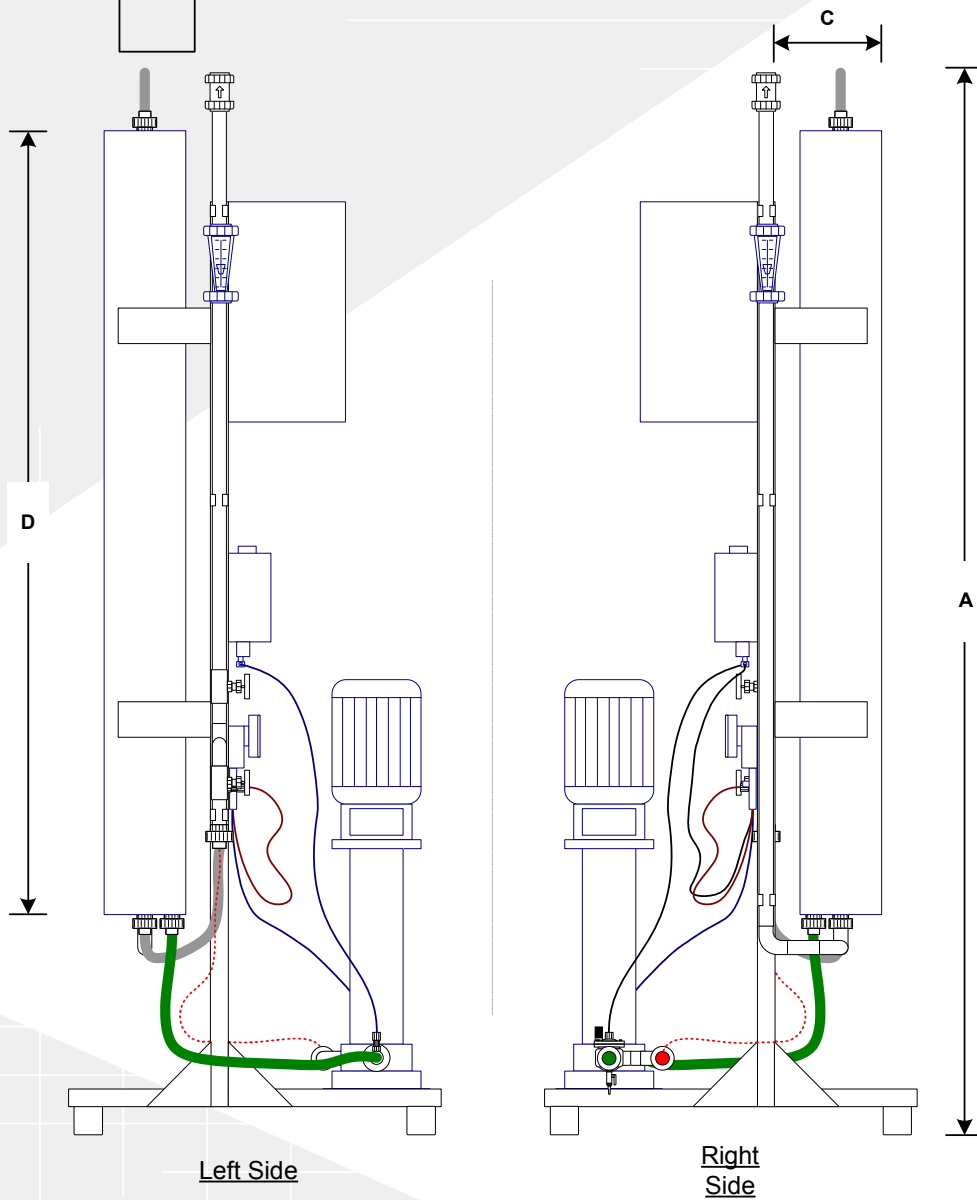
# N4 Series RO Units



1. Membrane Pressure Vessel
2. Solenoid Valve
3. On line Flow meter
4. High Pressure Pump
5. Motor
6. Frame
7. Non-Return Valve
8. Power and Control Panel
9. P.L.C. Control
10. Digital Conductivity Indicator
11. Digital Temperature Indicator
12. Regulating Valve
13. Pressure Indicator
14. Low Pressure Switch
15. High Pressure Switch
16. Sample Valve
17. Piping



# N4 Series RO Units



<b>Dimensions (mm)</b>					
<b>MODEL</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
NRX2S-41	1300	600	130	1100	800
NRX3S-41	1300	600	130	1100	800
NRX4S-41	1300	600	130	1100	800

**Product Features:**

- ✓ Finest quality components
- ✓ Base frame resistant to corrosion
- ✓ All parts selected for longer life
- ✓ High performance and energy saving
- ✓ Easy to install

**Applications:**

- ✓ Food & Beverage Processing
  - ✓ Drinking Water
  - ✓ Process Water
  - ✓ Pharmaceutical
  - ✓ Agriculture

**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR8 - S**
**Standard Range Features**

- ✓ Open frame design for easy operation and service
- ✓ Long lasting corrosion resistant pressure vessels
- ✓ Thin film composite RO elements
- ✓ Pre-filter 5m cartridge
- ✓ Vertical Multistage Centrifugal pump complete with motor
- ✓ Recycle throttle valve to increase system recovery in S/S
- ✓ Non-return valve to prevent backflow
- ✓ Line mounted flow meters for product and reject flow rates
- ✓ Feed water low pressure switch for pump protection
- ✓ Solenoid valve at inlet to stop flow when system is idle
- ✓ Auto flush system to periodically flush RO elements thus reducing scale formation and fouling


**Series NR8-S (All NR8-S models are available and as NR8-P)**

Model	Capacity	Electrical	Motor	Recovery	Recycling	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /day	mm
NRX1-82S	60	415V/3P/50Hz	15	30-50%	0-2.5	2200x1000x1300
NRX1-83S	90	415V/3P/50Hz	15	40-60%	0-2.0	3200X1000X1300
NRX1-84S	120	415V/3P/50Hz	15	50-70%	0-2.0	4200X1000X1300
NRX1-85S	150	415V/3P/50Hz	15	50-70%	0-2.0	5200X1000X1300
NRB1-86S	180	415V/3P/50Hz	15	50-70%	0-2.0	6200X1000X1300
NRB1-87S	200	415V/3P/50Hz	15	50-70%	0-2.0	3200X1000X1300
NRB2-84S	240	415V/3P/50Hz	15	50-70%	0-6.0	4200X1000X1300
NRB21-83S	270	415V/3P/50Hz	15	50-70%	0-6.0	3200X1300X1500

Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux is less than 32 L/m<sup>2</sup>h.

**REVERSE OSMOSIS – BRACKISH WATER**
**Series NR8 - P**
**Premium Range (Additional to Standard Range)**

- ✓ Electronic conductivity meter on product
- ✓ Electronic temperature meter on feed
- ✓ Programmable Logic Control for fully automatic operation
- ✓ Graphic Touch Screen Display for alarms and normal operation


**Series NR8-P**

	Capacity	Electrical	Motor	Recovery	Recycling	Dimension LxWxH
	m <sup>3</sup> /day	V/Ph/Hz	KW	%	m <sup>3</sup> /hr	mm
NRB2-84P	240	415V/3P/50Hz	15	50-70%	0-6.0	4200x1000x1300
NRB21-83P	270	415V/3P/50Hz	15	50-70%	0-6.0	3200X1300X1500
NRB21-84P	350	415V/3P/50Hz	15	55-75%	0-6.0	4200X1300X1500
NRB3-85P	440	415V/3P/50Hz	30	55-75%	0-6.0	5200X1300X1500
NRB3-86P	550	415V/3P/50Hz	30	60-75%	0-6.0	6200X1300X1500
NRB3-87P	600	415V/3P/50Hz	30	65-75%	0-6.0	7200X1300X1500
NRB4-87P	815	415V/3P/50Hz	30	65-75%	0-6.0	7200X1500X1600

Capacities are based on 20°C and TDS level of 2000 mg/lit. Fouling factor is 85% and SDI < 2.5. Flux is less than 32 L/m<sup>2</sup>h.



## Commercial Reverse Osmosis Units LC



### SERIES LC Specification:

Model	LC-200P-14	LC-300P-34
Production, Permeate	750 lt/day	1100 lt/day
Membrane Elements	2	3
Membrane Type	Thin Film	Thin Film
Operating Pressure	0,8-8 bars	0,8-8 bars
Operating Temperature	5-40 °C	5-40 °C
System Dimension(HxWxD)	76x46x23 cm	82x46x23 cm
Package Dimension(HxWxD)	87X46X24 cm	87X46X24 cm
System Weight(Kgs)	17	18
Tank Dimension(Dia.xH)	40x57 cm	56x75 cm
Tank Weight (Kgs)	11	27



### Standard Features:

- Powder Coated Frame Made of Light Weight and Rust Proof Aluminum Alloy.
- Two (Three) High Rejection Thin Film Membranes, Typical Rejection Rate is 99%.
- Each Membrane produces 375 lt/day @ 6,9 bars.\*
- Two 20" Pre-Treatment Filters: 5 Micron Sediment and Activated Carbon
- One 20" Post-Treatment Filter, Activated Carbon, DI Filter is Optional for Ultrapure Water Application.
- Liquid Filled Stainless Steel Pressure Gauge.
- Automatic Shut Off Valve.
- Low Energy High Flow Booster Pump with Transformer.
- Four Color Coded (Yellow,Black,Blue)3/8" Tubing, 1/4" Red Tubing included.

### Optional Features:

1. Permeate Pump: Fills Product Tank Faster, and Save Waste Water.
2. Auto Flush Timer: Reduces "Brine to Product" Ratio and improves TDS Rejection Rate
3. Larger Pressure Tanks: 20 gallon, 34 gallon (standard for LC-300P-34), 44 gallon and 86 gallon.

*\*Consult Factory for Details*

Tel:+35725661100, Fax:+35725661228

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# Reverse Osmosis Flow Diagram

