

## REVERSE OSMOSIS SYSTEM

### Model ROse-S20



### Capacity 20 m<sup>3</sup>/day of Product Water

Salt Rejection	:	97 – 99 % (as NaCl Rejection)
Applied Pressure	:	150 – 225 psi
Recovery	:	30-50%
Low Pressure Piping	:	UPVC sch.80
High Pressure Piping	:	High Pressure Hose
Fitting & Valve	:	SS304/Brass/Bronze
Electric	:	380VAC/3 phase/50Hz

## EQUIPMENT SPECIFICATIONS

### 1. MEMBRANE ELEMENTS

Quantity	:	4 elements
Size	:	4 inches dia. X 40 inches length each
Membrane type	:	Thin film composite polyamide, spiral wound
Manufacturer	:	DESAL AG4040F-400 by GE

### 2. MEMBRANE VESSELS

Quantity	:	4 vessels
Size / Material	:	4 inches dia. X 1.0 meter length each / FRP
Rating	:	300 psi
Manufacturer	:	"Codeline": 40E30N, End port

### 3. CARTIDGE FILTERS

Quantity	:	1 unit
Housing	:	PE
Cartridge	:	5 micron 2.5" dia. X 20" length

### 4. PUMPS

#### 4.1 Low Pressure Pump

Quantity	:	1 set
Manufacturer	:	Grundfos CR3-5 or equivalent
Capacity	:	2m <sup>3</sup> /hr at 40 mH <sub>2</sub> O
Electrical Requirement	:	380 VAC/3 phase/50 Hz/ 0.37kW
Materials(Body/Impeller/Shaft)/	:	Cast Iron/SS304/SS431

#### 4.2 High pressure RO Pump

Quantity	:	1 set
Manufacturer	:	Grundfos CR3-25 or equivalent
Capacity	:	2m <sup>3</sup> /hr at 145 mH <sub>2</sub> O
Electrical Requirement	:	380 VAC/3 phase/50 Hz/2.2kW
Materials(Body/Impeller/Shaft)/	:	Cast Iron/SS304/SS431

## 4.3 Chemical Dosing Pump

Quantity	:	2 sets
Manufacturer	:	Grundfos DMS2-11 : Max 2.5L/h or equivalent
Chemical	:	Antiscalant, Acid with Chemical PE Tank 100 L

## 5. INSTRUMENTS

### 5.1 Pressure Switch

Quantity	:	2 sets (for low pressure and high pressure)
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### 5.2 Electrical control

Quantity	:	1 lot (PLC Control)
Control Range	:	A) Low & High Pressure Control B) Power Switch C) Automatic Flushing D) Accessories for Smooth Operation of the System

### 5.3 Flow Meter

Quantity	:	2 sets (Product&Reject water)
Manufacturer	:	+GF+ or equivalent
Type	:	Variable area flow meter

## 6. SKID MOUNTING

Material	:	SS304
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## 7. UV Sterilizer

Quantity	:	1 set
Manufacturer	:	Sterilight or equivalent
Model	:	S8Q-PA
Lamp Power	:	37 watt