Excalibur Water Systems RO Clean-In-Place System

Introduction:

The Excalibur Clean-In-Place system facilitates the restoration of RO filter membranes by purging the foulants that develop during regular equipment operation. Doing so restores a degree of a filter membrane's performance while eliminating the need to manually remove the membranes to clean them. CIP models can manage varying degrees of acidity and alkalinity, granting it versatility in handling different chemical cleaning solutions.

Each model is designed to industry conscience sets of specifications to meet operational requirements. All CIP models come standard with appropriately sized holding tank, pump motor, multi-cartridge filter, valves, flow indicator and an electrical control panel. The range of CIP models are offered in two configurations: Independent Skid-Mount and Integrated.

Skid Mounted: Skid Mounted CIP models are fabricated to fit on skids with the goal of occupying the least amount of space necessary for safe and effective equipment operation. These standalone skids can be outfitted with heavy-duty steel casters to allow independent movement of the equipment.

Integrated: Systemic CIP models can be ordered with their RO system equivalents on custom-made skids. Pump, filtration, and piping mounted on RO skid pre-piped and wired for CIP clean in place operation.

Standard Model Equipment:

- PVC SCH80 Piping material
- Sloped/Conical type tank covered top
- Flow indicator
- Centrifugal pump
- 5-micron filter housing SS304
- Nema-4 Electrical enclosure
- Pump Dry run protection w/level switch
- Tank drain valve
- Solution Mixing Valve
- 230/460/600 v AC, 3 ph, 60Hz circuits
- 120 VAC control circuit
- Operating pressure range 50 to 60 psi
- Solution tank HDPE material
- Pressure indicator
- Pump material SS316

Optional Equipment:

- VFD (Variable Frequency Drive)
- pH analyzer
- Immersion heater
- Steel casters (Skid Mount Only)

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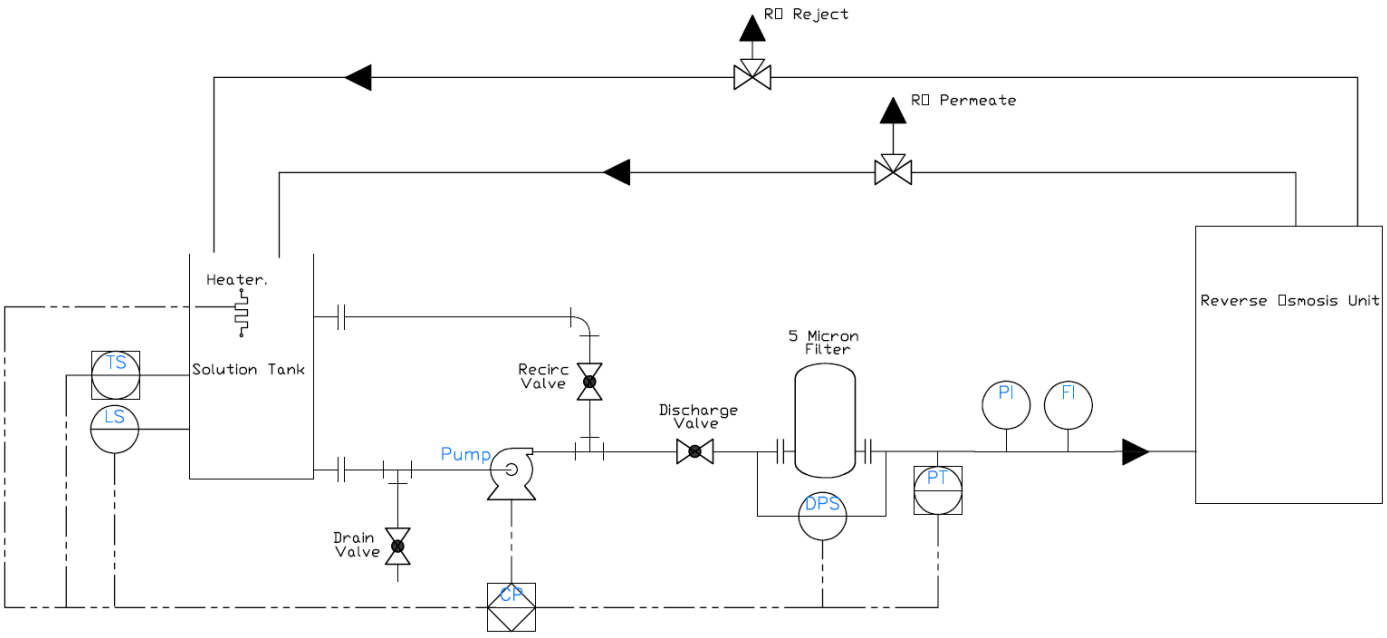
CIP MODEL SELECTION SHEET				
Model	RO Permeate Flow Rate USGPM	Tank Capacity Gallons Imp/US	Skid Dimensions L x W x H	Sipping Weight (lbs)
RO CIP1030	10 - 30	300/360	96" x 54" x 84"	1,000
RO CIP3560	35 - 60	300/360	96" x 54" x 84"	1,200
RO CIP6590	65 - 90	300/360	96" x 54" x 84"	1,500
RO CIP95150	90 - 150	500/600	108" x 75" x 104"	1,900
RO CIP160230	160 - 230	500/600	108" x 75" x 104"	2,300
RO CIP250350	250 - 350	850/1020	132" x 75" x 126"	2,900
RO CIP360450	360 - 450	850/1020	132" x 75" x 126"	3,500

CIP Piping & Instrumentation Diagram



Note:

- The weights mentioned in the table may vary and are referred for estimate only.
- Custom designs available based on user requirements and automation.