SNOWPURE
Water Technologies

DemandPure™3— *KISS: Keep it Simple EDI Systems™*

For Qualified OEMs Only

The **Demand**Pure™3 *KISS* EDI is the simplest way to replace Commercial & Industrial portable exchange DI, and to provide a recurring revenue (BOO or BOOT) solution to dealers, whenever an exchange tank solution is not economic or welcomed.

DemandPure™3 *KISS* EDI Keep It Simple Systems™ are completely automatic and can easily be installed after an RO, and left in place with no need for weekly or monthly maintenance.

SnowPure manufactures and sells pre-engineered, pre-assembled Commercial/Industrial EDI DemandPure™ EDI skids to Qualified OEMs and Dealers for sale or lease to users.

Benefits

- No operator flow settings—flow control internal
- No resin to exchange
- Operating cost (electrical) is pennies per day
- Eliminates disruptive visits to Customers' sites
- Ideal for remote locations
- Chemical-free, environmentally friendly

Features

- Simple: minimal instrumentation
- 2 MΩ DI sensor with red/green indicator lights
- Compact portable skid design
- Sleek, clean laboratory look
- Works with existing RO systems
- Internal flow orifices
- Includes 5 micron prefilter

DemandPure™3 *KISS* EDI System

DemandPure™ *KISS* EDI System

Specifications

	DemandPure™ SPDP-3-KISS-200	DemandPure™ SPDP-3-KISS-300	DemandPure™ SPDP-3-KISS-400	DemandPure™ SPDP-3-KISS-500
Nominal Capacity	0.5- 1 gpm 110-225 lph	1-3 gpm 225-700 lph	3-5 gpm 700-1100 lph	5-7 gpm 1100-1600 lph
Minimum Feed Pressure	25 PSI (1.7 bar)	25 PSI (1.7 bar)	30 PSI (2 bar)	35 PSI (3 bar)
Maximum Feed Pressure	75 PSI (5 bar)			
Nominal Discharge Concentrate + Electrode	0.10 gpm	0.3 gpm	0.5 gpm	0.7 gpm
Nominal Recovery	90%			
Feed Conductivity [1]	Optimum FCE <9µS/cm Max FCE 33µS/cm			
Total CO_2 + HCO_3	< 5 mg/l CO_2 + HCO_3^- (Optimum < 2 mg/l CO_2 + HCO_3^-)			
Hardness	< 1.0 ppm @ 90% recovery (ask about higher hardness)			
Organics	< 0.5 ppm TOC			
Metals	< 10 ppb			
Feed Temp	Optimum: 15º C—30º C Range: (5º C—35º C)			
Feed pH	Optimum: 7.0—7.5 Range: 5.0—9.5			
Feed Chlorine	ND			
Silica, SiO_2	< 0.5 ppm			
Power Usage	Nominal: 200W- Max: 800W FLA: 8A	Nominal: 300W- Max: 1.2 kW FLA: 8A	Nominal: 400W- Max: 1.6 kW FLA: 10A	Nominal: 600W- Max: 1.6kW FLA: 12A

	DemandPure™ SPDP-3-KISS-200	DemandPure™ SPDP-3-KISS-300	DemandPure™ SPDP-3-KISS-400	DemandPure™ SPDP-3-KISS-500
Dry Weight (approximate)	**173 lbs/80 kg**	**185 lbs/ 85 kg**	**195lbs/ 89 kg**	**230 lbs/ 105 kg**
Dims (approximate)	31" (788mm) L x 21" (533mm) W x 60"(1524mm) H			
Frame	Steel /Powder Coated			
Pressure Gauge	At filter outlet: SS case, bronze internals, glycerin-filled			
Pressure Regulator	Nickle Plated Bronze, 3/4", set at 40 psi (2.7 bar)			
Piping	3/4" PVC Sch. 80			
Valves	Inlet isolation manual ball valve, 2 sample valves			
Flow Control	Product, concentrate & electrode flow control orifices			
Switches	Off/on switch, feed low pressure cut-out, concentrate low flow cut-out			
Electrical Input	180-264 VAC, 50/60 Hz, 1-Phase			
Feed/Product/Conc.	3/4" Female Threaded PVC Union			
Product Quality	2 MΩ DI quality indicator with red-green indicator & alarm Typical product quality: 5-18.2 MΩ *depends on FCE[1] of RO permeate[2]			

1. FCE = Conductivity + 2.79*(CO_2) + 1.94*(SiO_2)

   Example: Conductivity=5.0µS/cm, CO_2=3.5 mg/l, SiO_2=0.5 mg/l
   FCE= 5.0+2.79*(3.5)+1.94*(0.5) = 15.7 µS/cm
   *Note: Conductivity (µS/cm) ~ 2.22 * TDS (mg/l)*

2. EDI performance can be estimated using EDICAD™

Electropure™ EDI Technology

- No concentrate recirculation or brine injection
- Thin-Cell efficient technology
- Thin-Concentrate non-scaling technology
- Unique non-scaling electrode system
- Patented Excellion™ membranes

Doing business with SnowPure

- Electropure™ EDI technology was born in 1977, before Ionpure
- SnowPure is privately held
- SnowPure is your partner, not a competitor
- High quality Electropure™ EDI training and OEM support

Benefits of Using EDI

- Continuous Process-no upsets
- Operating cost is minimized
- No hazardous waste, no associated costs and risks
- No regeneration acid or caustic
- Flexible—easy to expand a modular EDI system
- Reliable—no recirculation system components to fail

EDI Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with Electropure™ EDI systems.
- SnowPure assists new OEM customers through their system design phase.
- Our customers also have access to our Best Practices P&ID's to aid in their EDI system optimization.
- Combined with ongoing Technical Service, we help ensure success.

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