

ENVIROGEN

LABPURE DATA SHEET



The Envirogen LabPure is an energy efficient skid-mounted reverse osmosis, CO₂ degasser, electro-deionisation water treatment plant. It's compact design delivers small volume, high purity water requirements.

This compact multi-technology solution is designed to provide 150 to 1000 l/hr flow rates of high purity water for central laboratories, research and development, pharmaceutical, electronics and general manufacturing applications. LabPure incorporates a three-stage, chemical-free process, including reverse osmosis (RO) technology followed by degas membrane contactors for CO₂ removal, and electro-deionisation (EDI) system treatment.



LabPure

Augmented reality immersive product visualisation:
Scan this code to open the 3D model on your device.

FEATURES & BENEFITS

- Continuous operation, chemical free generation of ultra-pure water
- Inlet carbon filter to reduce chlorine levels and particulates
- Integral type AB air gap raw water break tank
- High efficiency, low energy RO membranes with water rejection rates of up to 96-98%
- Degas membrane contactors for CO₂ removal for improved process efficiency
- High flow rate EDI module to reduce plant foot print
- Bespoke EDI controller to ensure EDI stack is monitored and operated efficiently
- PLC & HMI control system for intelligent monitoring and operation
- System incorporates high quality instrumentation package
- Compact pre-packaged, skid-mounted system minimises installation, commissioning, start-up time
- Service and maintenance with access to a network of nationwide after-sales support teams
- Remote monitoring with trending capabilities and SMS/email messages.

ADDITIONAL FEATURES

- Treated water tank and distribution skids available.

TECHNICAL SPECIFICATION

| Model | | 150 | 250 | 500 | 750 | 1000 |
|---------------------------------|-----------|-----------------|-----------|-----------|-------------------------|------------|
| Nominal Permeate Performance* | l/h | 150 | 250 | 500 | 750 | 1000 |
| Rejection Rate (Nom)** | % | 96-98 | | | | |
| System Inlet Pressure (Min/Max) | Bar (Psi) | 1.5-6 (21.8-87) | | | | |
| Ambient Temperature | °C (°F) | 5-35 (41-95) | | | | |
| RO Membrane | Num | 2 | 2 | 2 | 3 | 4 |
| Degasser Membrane Contactor | Num | 1 | 1 | 1 | 1 | 2 |
| EDI Module | Num | 1 | 1 | 1 | 1 | 1 |
| Feed Water Inlet (Flange) | DN (Inch) | 15 (0.50) | | | | 20 (0.75) |
| Permeate Outlet (Flange) | DN (Inch) | 20 (0.75) | | | | |
| Concentrate Outlet (Flange) | DN (Inch) | 20 (0.75) | | | | |
| Tank Overflow | DN (Inch) | 32 (1.25) | | | | |
| Length | mm (Inch) | 770 (30.3) | | | 900 ¹ (35.4) | |
| Width | mm (Inch) | 720 (28.3) | | | 900 ¹ (35.4) | |
| Height | mm (Inch) | 1840 (72.4) | | | | |
| Weight (Dry) (approx.) | lbs (Kg) | 300 (661) | 300 (661) | 400 (882) | 450 (992) | 500 (1102) |
| Electrical Supply | V/ph/Hz | 415/3/50 | | | | |
| Fuse Rating | A | 20 | 20 | 32 | 32 | 32 |
| Power Consumption | kW / A | 7.5 / 11 | 7.5 / 11 | 17 / 25 | 20 / 29 | 20 / 29 |
| Protection Class | IP | 54 | | | | |

* For water quality of 10°C, 3.0 Bar, TDS ≤ 500mg/l ± 15%, SDI ≤ 3.0, oxidants ≤ 0.5 mg/l.

** Based on water quality of TDS ≤ 500 mg/l, with softening as a pre-treatment.

¹ Length and width subject to change due to continued improvement.

PERFORMANCE SPECIFICATION

| | |
|------------|-------------------------------|
| Inorganics | 1 TO >15 MΩ-CM AT 25°C (75°F) |
| TOC | <50 ppb |
| Bacteria | <1 CFU/ml |
| Particles | 0.2 µm filter |
| pH | Effectively neutral |

ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- World class manufacturing and servicing capability



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