ELGA VEOLIA

PURENERGY30

Specifications

Product Water Specification	
Water Resistivity	>1MΩ.cm
Total Organic Carbon (TOC)	<50ppbC*
Silica	<3ppb
Iron	<0.1ng/1
Chromium	<0.1ng/1
Nickel	<0.1ng/1
Molybdenum	<0.1ng/1
Aluminium	<0.1ng/1
Copper	<0.1ng/1
Titanium	<0.1ng/1
Make Up Rates @ 15°C	30 L/hr
Maximum Recommended Pump Withdrawal Rate	4L/min (drawn from reservoir)
Recovery	>30%
External Reservoir (gross volume)	25 litre
Daily Output (nominal max)	720L

*Feedwater dependent

Feed Water Requirements	Potable Water
Conductivity, uS/cm	<2000
Hardness, Ca ppm as CaCO3	<5
Free Chlorine, ppm Cl2	<0.05
Chloramine, ppm C12	<0.02
Silica, ppm Si02	<30
FI	<10
CO2, ppm	<30 (<20 recommended)
Organics TOC, ppmC	<2 recommended
Iron / Manganese pm Fe/Mn	<0.5
Temperature, °C	4-40 (10 - 25 recommended)
Inlet flow rate. L/hr	100
Drain requirements L/hr	75
Inlet Pressure, bar	Flooded Suction - up to 2

Dimensions and Parameters	
Height	460mm (18.1")
Width	550mm (21.7")
Depth	270mm (10.6")
System Weight - Dry (30L variant c/w LC212 installed exc. Pre-treatment assembly	29kg (64lbs)

PURENERGY 30

Compact, reliable, proven

The PURENERGY 30 system feeds PEM Electrolyser Systems with purified water demands of up to 30 l/ hour.

Guaranteed water purity, compact design and easy maintenance makes the PURENERGY 30 an ideal solution to feed Hydrogen Electrolyser systems producing up to 30Nm³/h of hydrogen.

Proven Water Purity
Research and development are at the heart of ELGA. The PURENERGY 30 components have been proven in tens of thousands of water systems globally and result from over a decade of user experience and feedback. ELGA Labwater is a subsidiary of the Veolia group, whose Quality Management System is approved by Lloyd's Register Quality Assurance (LRQA) and CISO 9001.

Compact & Reliable
A highly compact design means the PURENERGY 30 provides installation flexibility when creating new PEM Electrolyser facilities. Installation, flexibility & simplicity of design leads to higher operational reliability.

PURENERGY FLOW DIAGRAM