





Meticulous design

The SKID design

- An open structure allows easy access and therefore easy maintenance
- Centralisation of the operating controls on the front side
- The desalinator, in its skid configuration, is tested in actual operating conditions on the test bench before being despatched

Electrical consumption

- High-pressure pump with hydraulic output close to 100%, giving a clear reduction in electricity consumption
- Energy recovery unit available on the SLE and HLE ranges

Security of operation

- · High quality **electrical components** with a worldwide reputation
- Programmable PLC managing all the security and operating parameters of the watermaker; pressures, flows, quality, overloads...
- Produced water quality continuously tested, with automatic rejection of non-conforming water...
- Complementary equipment available: UV steriliser, chlorinator, neutralite filter...

Membrane Protection

The prevention of premature mechanical or chemical fouling of the membranes is a priority in the design of SLCE°watermakers.

Effectively, it's the choice of design parameters and the operating conditions of the membranes, which results in the optimisation of the machine, both in terms of operating costs and reliability.

- · Optimised conversion rate
- Exclusive SLCE[®] sand filters and cartridge filters giving an absolute pre-filtration level of 5 µ
- · Chemical pre-treatment
- Sand filter back flushing and membranes flushing automatically controlled so as to maintain the watermaker in optimal operating conditions
- Integrated cleaning circuit rapidly ensures periodic chemical treatment of the membranes.
 No dismantling or any other operation is required, apart from opening a valve





Quality materials

SLCE°watermakers are made of materials selected for their excellent corrosion resistance in the marine environment.

- · Bi-metal **frame**, base zinc plated steel and stainless steel structure, oven-baked polyester powder coating
- Sand filter of glass fibre reinforced polyester, or in steel, mechanically welded, with polyester or ester vinyl coating
- · Cartridge filters with epoxy casing
- · High-pressure pump with ceramic pistons, 316 stainless steel head, valves and springs
- · Duplex stainless steel couplings and tubing







SH Range

Up to 120 m3/24 h

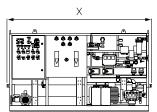
A classic watermaker design, the range is offered skid-mounted

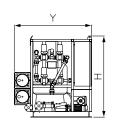
- Integrating everything needed, including sand filter, seawater self-priming feed pump on the ranges SH21, SH22, SH31,
- Separate sand filter and seawater feed pump on the SH61 range.

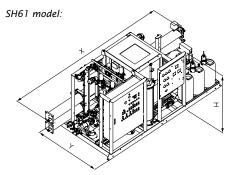
Available in all 3-phase voltages, the SH range of watermakers is entirely automatic.

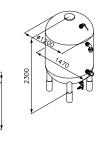


SH21, SH22 and SH31 models:









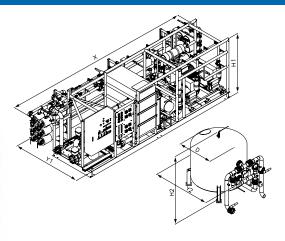
SLE/HLE Ranges

Up to 750 m3/24 h

Less than 3 kWh per m3 produced water Energy recovery watermakers, skid mounted, with separate sand filter and seawater feed pump.

Available in all 3-phase voltages, the SLE ranges of watermakers are entirely automatic.





Less than 3 kWh per cubic meter of produced water thanks to the PX energy recovery unit.

On a classic watermaker, the pressurised brine, which represents 60% of the volume of the seawater treated, is rejected to the sea after having been discharged in the pressure valve

On the SLE/HLE ranges, the PX unit allows this brine pressure to be transferred to the incoming seawater which is to be treated, thus reducing electricity consumption by 50%.

The HLE range of high rejection rate watermakers

Based on the design of the SLE range, the HLE range offers an increased rate of salt rejection.

It is equipped with an extra stage made up of a complete additional reverse osmosis module (pump, membranes and control accessories). Production of potable water with reduced TDS (total dissolved solids) from standard salinity seawater.

Production of potable water conforming to World Health Organisation directives, from high salinity seawater (eg Red Sea, Persian Gulf).











Capacity			Connected	Consumed	M/ . I . I .	SI	Const City			
25 °C	15 °C	Model	power	power	Weight	х	Y	Н	Sand filter	
SH Range										
Fresh water produced from standard seawater Capacity given at +/- 10% using standard seawater with salinity of 36.5 g/l at the temperature indicated										
17 m³/24 h	15 m³/24 h	SH21-404		11 kW	800 kg	2500 mm	1300 mm	1450 mm	Integrated in skid	
24 m³/24 h	21 m³/24 h	SH21-406	14 kW		850 kg					
30 m³/24 h	27 m³/24 h	SH21-408			900 kg					
30 m³/24 h	30 m³/24 h	SH22-802	18 kW	14 kW	950 kg	2600 mm	1450 mm	1450 mm	Integrated in skid	
40 m³/24 h	40 m³/24 h	SH22-803			1000 kg					
50 m³/24 h	50 m³/24 h	SH22-804			1050 kg					
55 m³/24 h	50 m³/24 h	SH31-803		21 kW	1900 kg	3600 mm		1700 mm	Integrated in skid	
65 m³/24 h	60 m³/24 h	SH31-804	26 kW		1950 kg	3500 mm	1700 mm			
75 m³/24 h	70 m³/24 h	SH31-805			2000 kg	3600 mm				
100 m³/24 h	90 m³/24 h	SH61-806	42 kW	22 144/	4600 kg	2700	1700 mm	1750 mm	Mounted separately	
120 m³/24 h	110 m³/24 h	SH61-809	42 kW	32 kW	4800 kg	3700 mm				

Capacity	Model	Connected power	Consumed power	Weight	Skid dimensions			Sand filter dimensions				
					х	Y1	H1	D	Y2	H2		
SLE Range												
Fresh water produced from standard seawater Capacity given at + / - 10% using standard seawater with salinity of 36.5 g/l at temperature between 15°C and 25°C												
110 m³/24 h	SLE 0806	19 kW	15 kW	4400 kg	4385 mm	1880 mm	2000 mm	1200 mm	2400 mm	1750 mm		
140 m³/24 h	SLE 0808	25 kW	20 kW	4500 kg	5200 mm			1200 mm	2400 mm	1750 mm		
170 m³/24 h	SLE 0810	29 kW	24 kW	7300 kg	6200 mm			1600 mm	2100 mm	2200 mm		
180 m³/24 h	SLE 1212	33 kW	26 kW	7850 kg	5200 mm	2100 mm 2) mm 2100 mm	1600 mm	2100 mm	2200 mm		
230 m³/24 h	SLE 1215	42 kW	31 kW	8000 kg	6200 mm							
310 m³/24 h	SLE 1618	56 kW	44 kW	8250 kg	7200 mm							
400 m³/24 h	SLE 2524	69 kW	56 kW	12400 kg	7200 mm	2280 mm	2200 mm	2000 mm	2700 mm	2650 mm		
500 m³/24 h	SLE 2530	85 kW	70 kW	14560 kg				2200 mm		2850 mm		
600 m³/24 h	SLE 2536	109 kW	80 kW	15060 kg				2200 mm		2850 mm		
750 m³/24 h	SLE 3242	128 kW	95 kW	17850 kg				2500 mm		2850 mm		
HLE Range												
Low salinity level fresh water produced from standard seawater Capacity given at +/- 10% using standard seawater with salinity of 36.5 g/l and temperature of 25°C												
180 m³/24 h	HLE 0812/6	36 kW	29 kW	8000 kg	7200 mm	2100 mm	2100 mm	1600 mm	2100 mm	2200 mm		
280 m³/24 h	HLE 1218/6	59 kW	45 kW	8450 kg		2100 mm	2100 mm	1600 mm	2100 mm	2200 mm		
580 m³/24 h	HLE 2536/6	116 kW	87 kW	15060 kg		2280 mm	2200 mm	2200 mm	2400 mm	2850 mm		
Fresh water produced from high salinity seawater Capacity given at +/- 10% using standard seawater with salinity of 47 g/l and temperature of 30°C												
160 m³/24 h	HLE 0818/6	37 kW	32 kW	8300 kg	7200 mm	2100 mm	2100 mm	1600 mm	2100 mm	2200 mm		
260 m³/24 h	HLE 1230/6	60 kW	43 kW	9050 kg		2280 mm	2100 mm	1600 mm	2100 mm	2200 mm		
480 m³/24 h	HLE 2548/6	120 kW	83 kW	15560 kg		2280 mm	2200 mm	2200 mm	2400 mm	2850 mm		



Several ranges of watermakers for professionals, reliable, simple and economical, designed for the most demanding operating conditions, on working vessels or land based.

- · SH Range: up to 120 cubic metres per day
- · SLE/HLE ranges: up to 750 cubic metres per day

SLCE[®] reliability

Demanding design choices and more than twenty years experience gives SLCE watermakers excellent reliability.



- Operating parameters have wide safety margins built in
- Highest quality materials giving perfect corrosion resistance
- Highest quality internationally recognised components
- Complete treatment system, integrating all the functions necessary to ensure long lasting performance

SLCE[®] simplicity

Simple to install, simple to use, no particular technical expertise required.

- · Skid mounted equipment, easy to install and connect on-site using standard flanges
- Watermakers are **factory tested** before despatch, limiting on-site commissioning to simple checks
- Automatic operation controlled by PLC; automatic start/stop controlled by level detectors, automatic back flushing of the sand filter, automatic flushing of the membranes...
- Running maintenance reduced to simple and infrequent operations, described in a full and precise technical manual

SLCE[®] economy

- Optimised working parameters to reduce electricity consumption, while ensuring long lasting performance
- · High efficiency, high pressure reciprocating pump
- Energy recovery unit on the SLE and HLE ranges limits energy consumption to less than 3 kWh per cubic metre of water produced

A design that limits operating costs.





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