



Typical technical features

Water purification	BRACKISH	SEAWATER
Optimum inlet water temperature range – [°C]	10 – 40	10 – 40
Feed water salinity (TDS) – [ppm]	< 10'000	10'000 – 50'000
Guaranteed permeate quality – [ppm] WHO standard	200	200
Minimum life expectancy of membranes – Years	5	5
Pre-treatment	Sand filter and secondary filter	Sand filter and secondary filter
Monitoring & Control	Programmable Siemens touch screen controller	Programmable Siemens touch screen controller
Water storage tank capacity * – [m ³]	up to 20*	up to 20*
Skid container	Air conditioning and lighting	Air conditioning and lighting
Life expectancy of skid unit	20 years	20 years

Solar energy pack	BRACKISH	SEAWATER
Power source	Photovoltaic energy	Photovoltaic energy
Peak power per panel – [W]	~ 310	~ 310
Photovoltaic panel size	1.6 m ²	1.6 m ²
Efficiency per square meter – [W]	195	195
Minimum life expectancy of photovoltaic panels at 80 % Pmpp min – [years]	20	20
Certification of panels	IEC 61215 ed 2 (from - 40°C to 85°C)	IEC 61215 ed 2 (from - 40°C to 85°C)
Solar electricity storage **	Battery pack (48 hrs. capacity)	Battery pack (24 hrs. capacity)
Battery Voltage – [V]	48	48
Life expectancy of batteries	2 x 10 years	2 x 10 years
Battery recharge time (optimum conditions)	20 hrs	20 hrs
Inverter power (per inverter) – [W]	5'000	5'000
Diesel generator power – [kVA]	19	35

Options:

- Remote monitoring of water skid & solar energy
- Remote control of water purification skid
- Water remineralisation unit

* depends on the final application and local needs

** subject to respect of temperature utilisation conditions for max. lifetime of batteries

Battery replacement and recycling handled by SwissINSO