

Technical Highlights of example 180 Kw gross OTEC system.

Outputs

Nameplate power output (Gross AC)	180 kW
Base load output (net AC)	126 kW
Electrical connection	(700 V,) 3-phase, 50 or 60 Hz

Inputs

Fuels	Warm and cold sea water.
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Efficiency

Pumping losses	30%
Head loss per kM (m)	0.8
Condensing heat rejection	7.5MW
Isentropic efficiency	80%
Overall heat transfer coefficient Kw/M2.K	0.8

Emissions

Cold water outlet (deg. C.)	8
Cold water intake (deg. C.)	4.5
Warm water intake (deg. C.)	26
Warm water outlet (def. C.)	25.93
Warm water flow rate (l/s)	720
Cold water flow rate (l/s)	360

Physical Attributes and Environment

Weight	3 tonnes
Shell Dimeter	1.5
Height	3

Codes and Standards

ASME or equivalent for boilers, condensers and pressure vessels.

Additional Notes, extras and their purpose.

- Li battery (surge protection, energy use efficiency)
- Transformer (transmission efficiency)
- Bridon rope and hose protectors (abrasion resistance)
- Parylene Coatings (corrosion resistance)