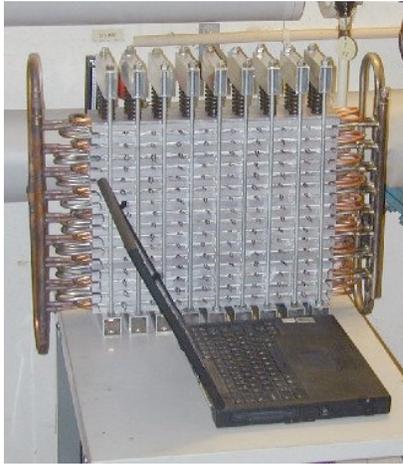


Thermoelectric Generator and Fluid Chiller TGC 2200-300



*Illustration 1.: TGC 2200-300.
Cooling power 17.5kW/0°C ΔT*

The TGC 2200-36 module is a thermoelectric generator that also is suitable for use as a high power chiller.

The solid-state eight-module design converts heat directly to electric power without moving parts. No hazardous fluids are used.

- The TEG is suitable for hot water, oil or other hot fluids.
 - Electric power output 300W at a temperature difference of approximately 120°C.
Hot fluid-cool fluid
 - No maintenance is required.
 - Very reliable due to solid-state technology with no moving parts.
 - Environment friendly since no hazardous cooling media is necessary.
 - Examples of energy sources: Solar, waste heat recovery, energy harvesting, geothermal, district heating
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General

Modular Bismuth telluride thermopile TEG and Chiller.
The modules may be stacked to produce the required power.

As a Thermoelectric Cooler:

High power solid-state liquid cooling with no moving parts and no hazardous cooling media.

The heat flow direction is reversed by reversing the electric polarity

As a Thermoelectric Generator:

Electric power is produced by direct conversion of heat energy to electric energy. The cooling is done by a circulating fluid

The modules are stacked to a pile to required power. The heat power available for the TEG must be high enough to maintain the temperature difference otherwise will the power output be lower

TEG Electric output

Power output	300W/12V @ $\Delta T=120^{\circ}\text{C}$
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Cooling capacity

Heat pump power	17kW at $\Delta T=0^{\circ}\text{C}$
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Temperature range

Water	+120C in a pressurised system
Other fluids	+350C (high temperature version)

Materials

Thermopile	Bi_2Te_3
Heat exchanger	Anodized Aluminum. (option copper)
Fluid channels	Copper. (option Acid proof steel)
Wiring insulation	Teflon

Warranty: 5 Years

Terms	Warranty void if the cooling air flow is or has been blocked or if the unit has been flooded
Includes	The TEG is guaranteed to operate according to specifications.

Note: Specifications and dimensions subject to improvements/change without notice

Contact information

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