



Utilise the energy of the sun
to reduce fuel costs and increase profits

CPC

COMPOUND PARABOLIC CONCENTRATOR



Compound Parabolic Concentrators are ideal for large-scale medium-temperature hot water applications up to 120°C in a wide variety of industrial sectors. The CPC supplied is based on technology from Ritter Gruppe, Germany.



**Customised
to the
application**



**Attractive
payback**



**No special
skills required
for operation**



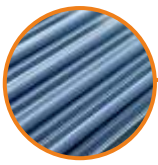
**In-built
safety
features**



**Low
maintenance
costs**

About Energy Efficiency Solutions

A.T.E.'s passion and commitment to sustainability has led us to develop energy-efficient technologies and products. Our unique approach to combine energy efficiency and renewable solar energy delivers the largest savings in carbon-intensive fuels, and directly influences the bottom line. A.T.E. is an accredited MNRE channel partner for off grid and decentralised solar applications.



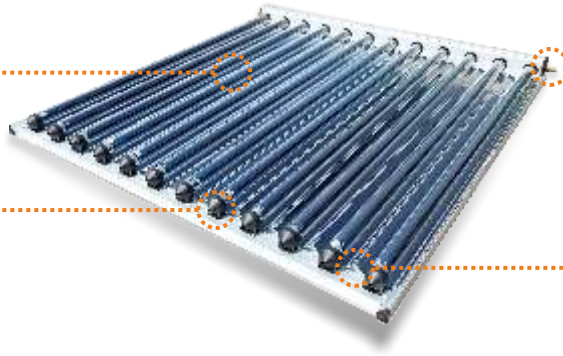
Glass tubes with highly selective absorber layer absorb maximum solar radiation.



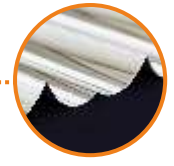
Compression ring fittings are easy to install and safe.



U-shaped copper pipes carry heat transfer fluid to extract the heat.



Modular design enables customisation to the application. Can be ground-mounted or roof-mounted.

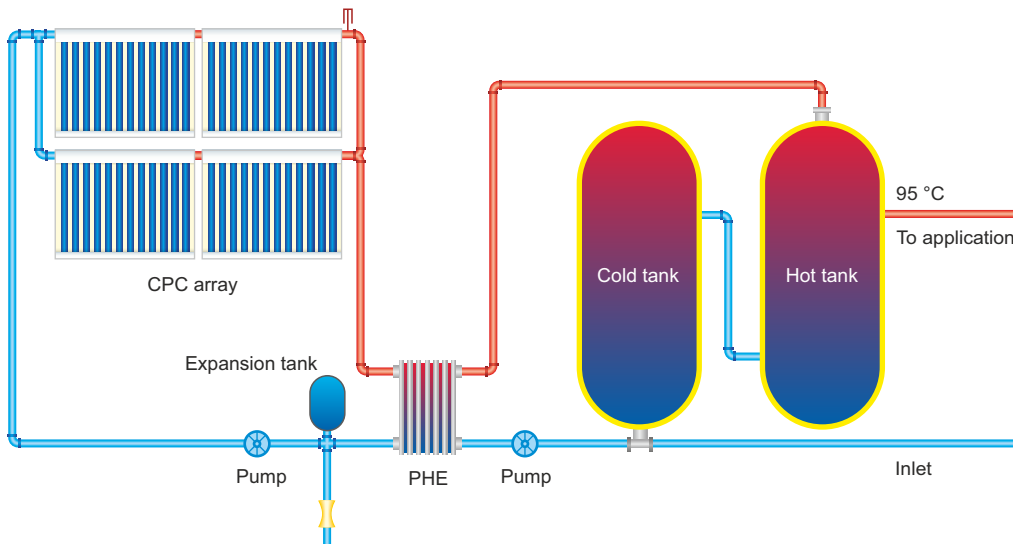


A highly reflective, weatherproof Compound Parabolic Concentrator reflector placed behind the evacuated tubes helps achieve higher thermal output.

Specifications

Particulars	CPC45	CPC70
Number of tubes in each module	12	18
Weight of each module	37 kg	54 kg
Gross size	1.39 m x 1.64 m x 0.10 m	2.08 m x 1.64 m x 0.10 m
Gross surface area	2.28 m ²	3.41 m ²
Aperture area	2.0 m ²	3.0 m ²
Nominal thermal output (at 1000 W/m ² and 30°C)	1302 kWh/year	1953 kWh/year

Process Flow Schematic



Applications



Boiler feed water



Clean-in-place



Textile processing



Distillation



Degreasing/parts washing

Industries



Textile



Dairy and Food



Automobile



Distillery



Chemical



Healthcare



Hospitality



Pharmaceutical



Business Unit:

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