

# InKorr

This product is represented in Australia, New Zealand, and PNG by:

## InKorr Pty Ltd

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### Contact InKorr Pty Ltd for:



#### Heat Exchangers

- Shell & Tube Heat Exchangers
- Gasketed Plate Heat Exchangers
- Brazed Plate Heat Exchangers
- Crossflow Welded Plate Heat Exchangers
- Plate & Shell Heat Exchangers
- Non Metallic Heat Exchangers
- Corrugated Tube Heat Exchangers
- Spiral Heat Exchangers
- Air-Cooled Heat Exchangers



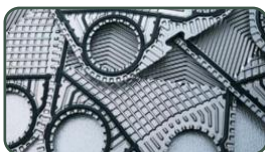
#### Vessels, Columns, and Equipment manufactured from:

- Exotic Alloys (Ta, Zr, Ti)
- Graphite and Silicon Carbide
- PTFE Lining



#### Plastic Lined Valves and Piping

- PTFE
- PVDF
- PP
- and many more!



#### Servicing and reburishment of heat exchangers!

- Plate cleaning
- NDE for crack testing
- Spare parts, both OEM and aftermarket



# Spiral Plate Heat Exchanger

## Condensers for solar heating technology



### Case Story

To compensate the lack of energy in the future, solar energy is one of the best alternative. It is the renewable energy that has the most significant growth potential. The Concentrating Solar Power (CSP) technology uses large sun-tracking mirrors to concentrate solar radiation. Products such as Spiral and condensers are needed.

Nexson Group's team with its experience and global references will help you to adapt your processes and reduce your costs.

### Benefits

#### UNIQUE AND RELIABLE DESIGN

The Spiral Plate Heat Exchanger present in various applications for almost a century, has proven to be the most efficient and reliable solution for handling fluids containing fibers and suspended particles.

#### SELF-CLEANING

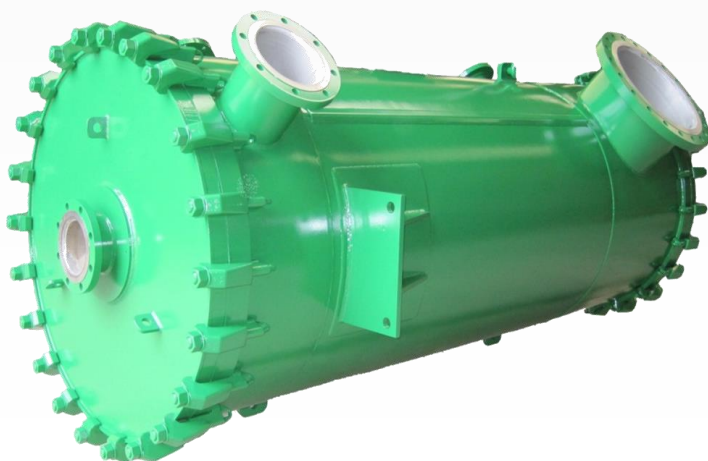
Single channel combined with turbulent flow allows self-cleaning of the Spiral Heat Exchanger. Covers equipped with davits can be removed to facilitate maintenance and inspection operation.

#### ENERGY SAVING

Countercurrent flow circulation makes it ~4 times more efficient than traditional shell & tubes.

#### COMPACT

Compact shape, easy to install and operate.

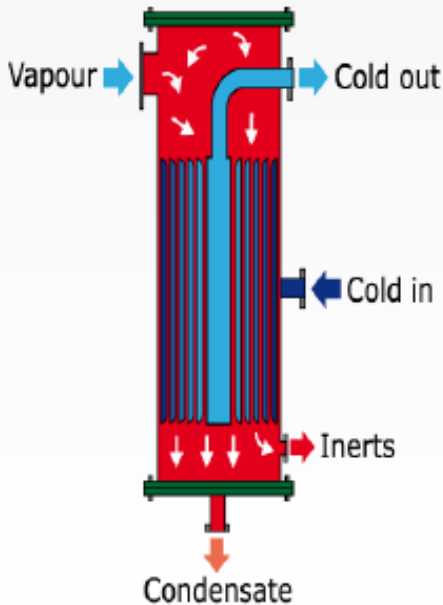


# Applications

The principle of Concentrating Solar Power (CSP) is to concentrate sun's heat onto the mirrors using a central tower.

Solar field heats synthetic heat transfer oil. Energy in the oil is used to generate superheated, high pressure steam turbine. This turbine powers an electrical generator, creating electricity. The collectors individually track the sun along one-axis, using a drive mechanism located at the center of the collector.

When the sun is not strong enough, CSP could be equipped to burn natural gas and uses condenser units. Through this system synthetic oil is used to generate high temperature steam and run a conventional power cycle. Condensers are necessary to treat nitrogen, in order to cool it. Consequently, oil in vapor is use again in the circuit, nitrogen can be recycled and vapor (water) is recuperated.



## Customer benefits

- DESIGN ON REQUEST
- PRESSURE DROP NEGLECTABLE
- BIG FLOW RATE OF VAPOUR (possible sub-cooling inert/condensate)
- LOW INSTALLATION / OPERATIONAL COST
- LOW COST OF MAINTENANCE (self-cleaning effect)
- EASY ACCESS FOR INSPECTION AND CLEANING

### MATERIALS:

SA 516 gr60 or gr70  
304L 316L DUPLEX SUPER DUPLEX  
904L 254SMO  
NICKEL ALLOYS TITANIUM

### CAPACITY:

Area: up to 600m<sup>2</sup>  
Maxi design temperature: 450°C  
Maxi design pressure: Full Vacuum/60 Barg

### NG1-CS08 ENG

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