



Exchange surfaces adapted to your fluids :



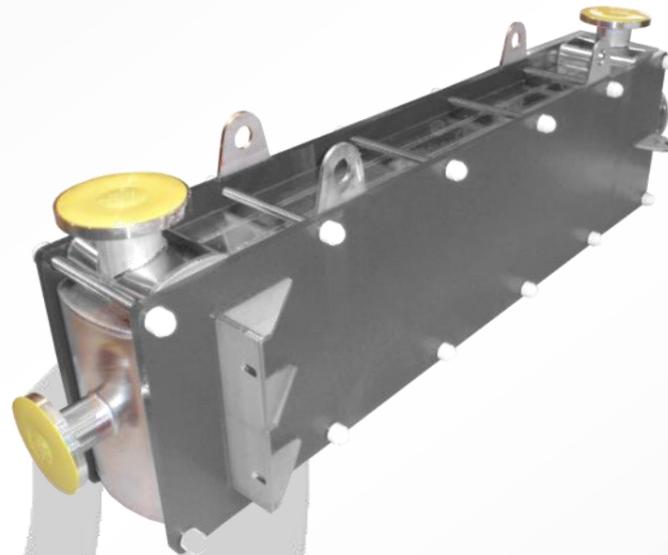
Non-charged fluids



Charged fluids

The features that count

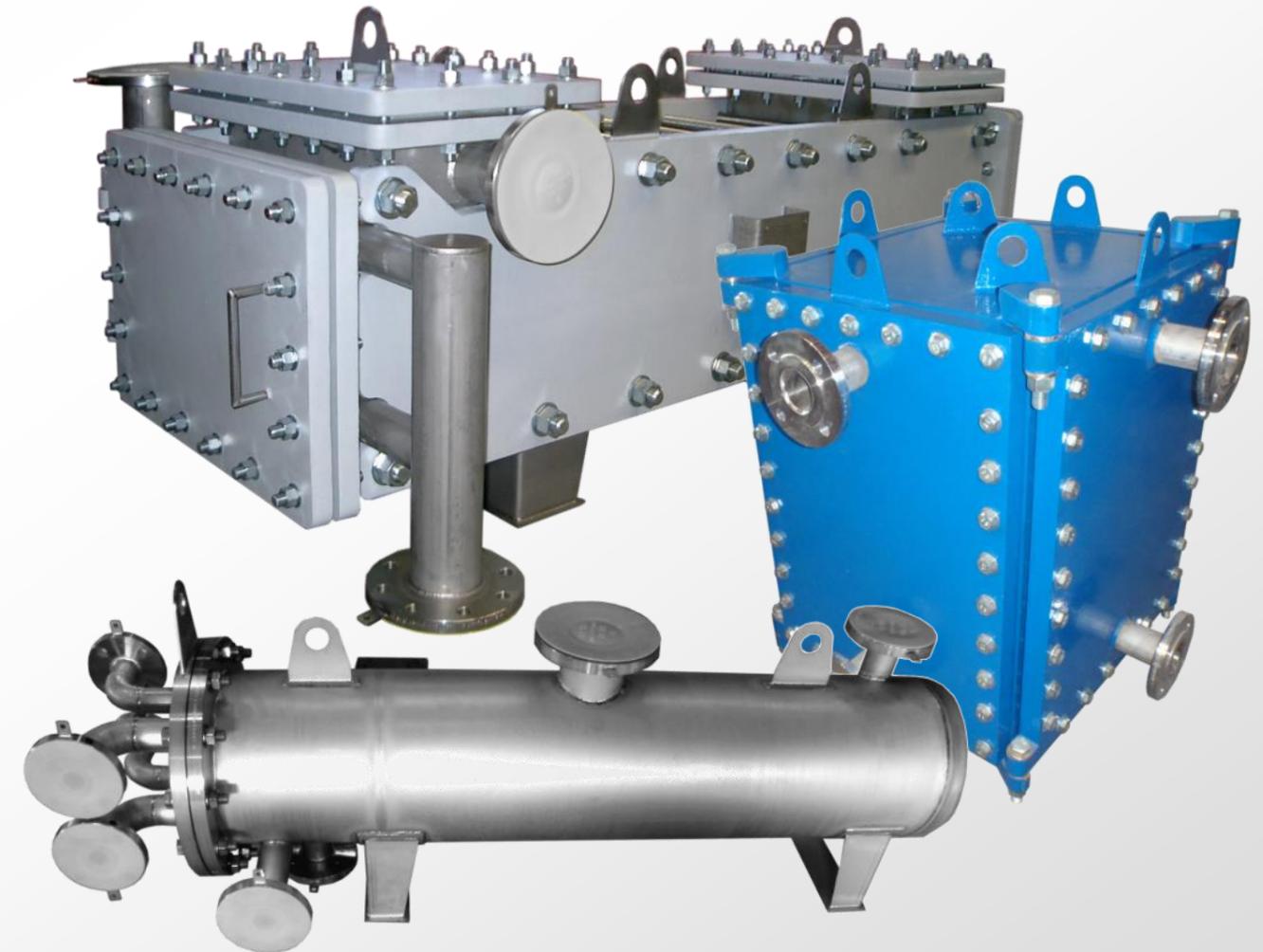
- ⇒ Maximum heat recovery
- ⇒ Reduced carbon dioxide gas emissions
- ⇒ A very compact unit, takes up very little floor space
- ⇒ Reduced maintenance, increased function time
- ⇒ Mechanical cleaning for both circuits
- ⇒ Useable for liquid and gas applications
- ⇒ Smooth channels from 2mm to more than 30mm
- ⇒ Exchanger plates up to 3mm thick
- ⇒ Presses from 2mm to 10mm
- ⇒ Exchanger surfaces from 0.1 to 5000m² per unit
- ⇒ Maximum temperature: 1200°C
- ⇒ Maximum pressure: >120 bars
- ⇒ Design according to AD MERKBLATT, CODAP, ASME, Stamp U
- ⇒ Materials : stainless steel, duplex steel, nickel alloy (Alloy 31 / C276 / C2000 / C22), titanium, 904L, etc.
- ⇒ CE marking according to European standards (DESP 97/23/CE)



Zcompact Exchangers

Welded plates, Ziebloc, energy savers and condensers

Solutions for all of your process !



Welded plate exchangers



Rectangular exchanger

High performance heat exchangers: maximum power exchanged with a minimum pressure drop, all in a single compact package. This is what we can offer to our clients with our Zcompact plate heat exchangers.

For the same size of model, our exchangers offer much higher performance than a tubular exchanger, and have no gaskets which can compromise the system's reliability. Our design lets you inspect it easily while ensuring good mechanical cleaning for both fluids.

The efficiency of a plate heat exchanger with the solidity of a tubular exchanger.

Our exchangers can be inspected and cleaned using a specially developed cleaning tip.



Cleaning tip

7mm

The heat exchangers are designed according to your specific needs and the available space.

We can even install it in place of your old exchanger with no need to modify your piping.



$Ra < 0.4$

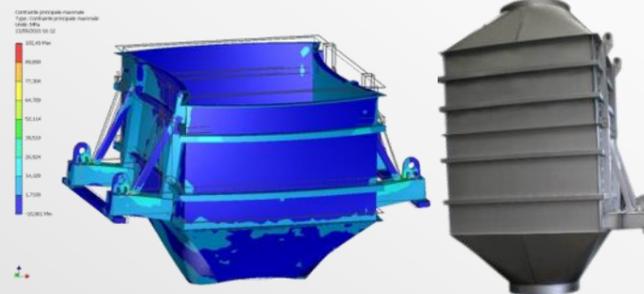
Energy savers



- High temperature gas-gas energy savers (700°C)
- 120 m²
- Already built: a 21 bar couple for 750°C
- Installed on incinerators, boilers, heat cycles etc.



High temperature heat exchangers for energy recover from hot smoke and gas .

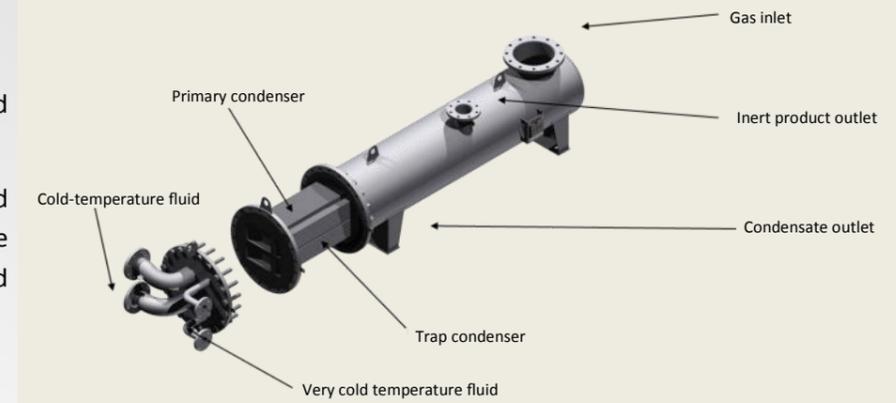


- Corrosive gas 170°C / Liquid energy savers
- Very low temperature approach
- 904 L
- 900 m²
- 16 Tonnes

"2 in 1" condensers

Solutions for optimum efficiency and reduced pressure drop .

Ziemex condensers are made with U-shaped plates which can expand independently of the shell they are inserted into, for unparalleled reliability and durability.



Condensers directly installed at the top of column

Several passes on the condensation side can be fitted (with our patented design) to keep a constant speed all along the unit.

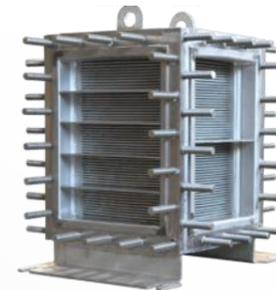
The exchange bundles can be inspected without having to alter the piping, and can be removed for mechanical cleaning if necessary.

Ziebloc

A compact unit consisting of 4 supports and 2 bases, giving easy access to the welds and the exchange surface via 4 doors: perfect access on all four sides.

Ziebloc integrate expansion compensators for greater reliability.

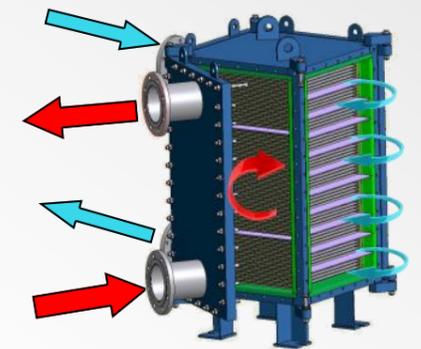
Ziebloc is designed and produced by the research and development teams at our Ziemex site in France.



90m² Titanium Ziebloc

Use less energy, emit less CO₂, reduce maintenance... all this with a smaller size and price tag !

Ziebloc : an exchanger surface you can actually clean !

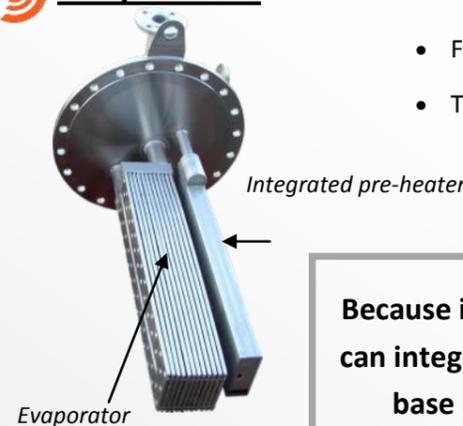


Perfect accessibility! The four doors can be hinge-mounted, giving you quick and easy access to both circuits for maintenance operations.

Also, the cleaning depth is less than 450mm.

Evaporators

- Forced recirculation
- Thermo-siphon



Because it's so compact, you can integrate it right into the base of your column.

Purification unit
Evaporator in the base
Condensers in the top

