

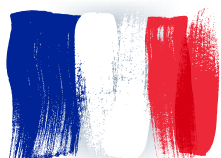


RIDEL *ENERGY*

Reinventing Hot Water

**Heat Recovery
Hot Water Production
Energy Storage**

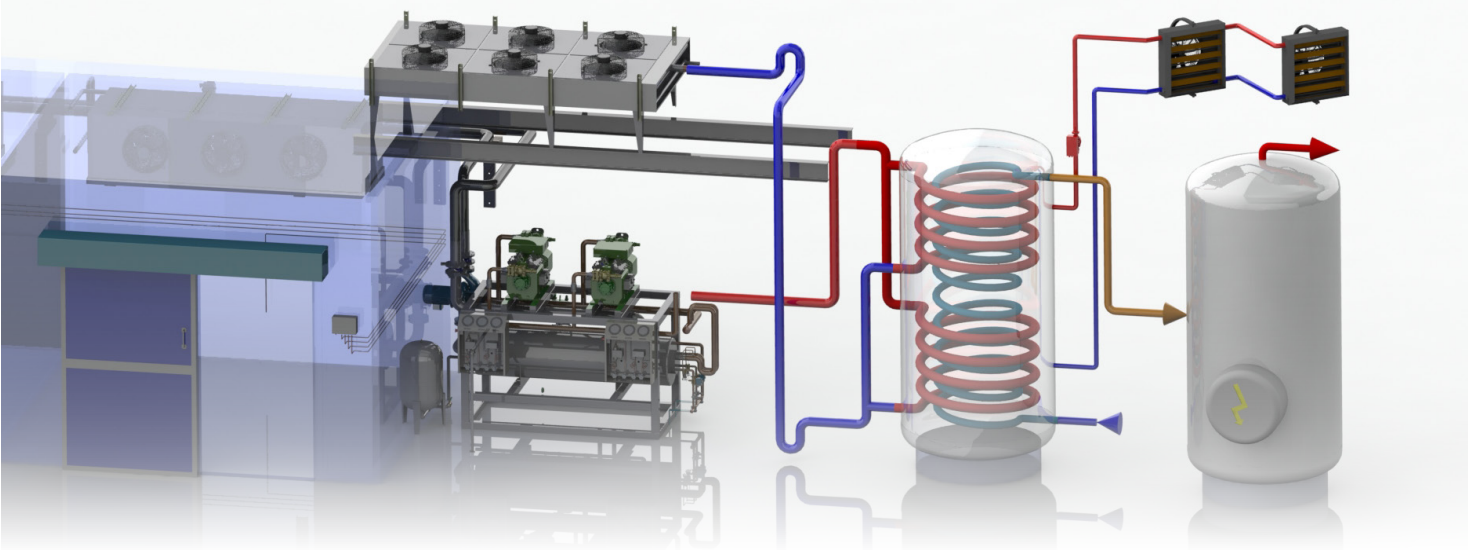
Made in France



| Refrigeration Heat Recovery

Ridel-Energy is the premier French manufacturer of refrigeration heat recovery equipment. All Ridel-Energy products are made in France (Normandie region) since 1974.

Our equipment produces hot water by recovering the wasted heat from your refrigeration system. You can then use this hot water for other purposes such as processing, Domestic Hot Water (DHW) and heating.



Refrigerant heat exchangers are immersed into the storage water :

- Optimised heat exchange,
- Simultaneous heat recovery on multiple refrigeration groups/units,
- Simplified installation: saving of one circulation pump per refrigeration circuit.

A double heat exchange done in technical water :

- This prevents the development of bacteria such as legionella,
- No heat shock required, which further decrease the energy consumption,
- Storage of calories in technical water prevents rust and limescale : prolonged life span and minimal maintenance required.

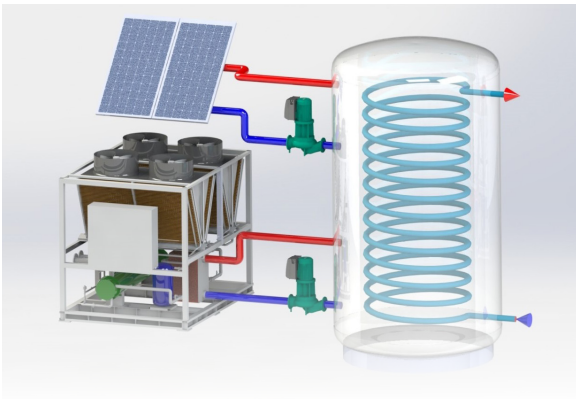
Features

- Range :** standard or custom-made
- All refrigerant :** HFC - HFO - Nat Ref
- Cooling power :** from 1 kW to 4,5 MW
- Volume :** from 200 L to 90 M3
- Insulation :** indoor or outdoor

Fields of Activity

- | | |
|-----------------------------|-------------------------------|
| Farms | Supermarkets |
| Convenience stores | Food processing industries |
| Restaurants & hotels | Public institutions |
| Centralised kitchens | Plastic processing industries |
| Hospitals and nursing homes | Cosmetics industries |
| Schools | Datacenters |
| Laundry sector | And more... |

| Hot Water Production Using Technical Water



Heat recovery on chillers, air compressors, solar pannels etc....

- Storage tank using a heat transfer fluid (MEG/MPG/PCM),
- Immersed secondary exchanger with little volume and a large heat exchange surface - from 5 kW to 1 200 kW,
- Preheating or instant preparation of domestic hot water,
- Zero risk of development of bacteria (such as legionella) : no heat shock required,
- Energy complement available on demand : electric, gas, steam, renewable energies, heat recovery.

| Hot Water Production



DHW coil heater - Heating from an energy source

Enamel-coated steel tank — 1 or 2 coils
Volume : 300 L to 3000 L
For the production of DHW from renewable energy sources : heat pumps, solar panels or heat recovery.



Electric DHW or technical water heater

Enamel-coated steel tank or black steel
Volume : 300 L to 3000 L (enamelled)
300 L to 20 M3 (black steel)
Power : from 3 to 60 kW
Armored or steatite resistances.



Gas-fired DHW heater condensing or atmospheric

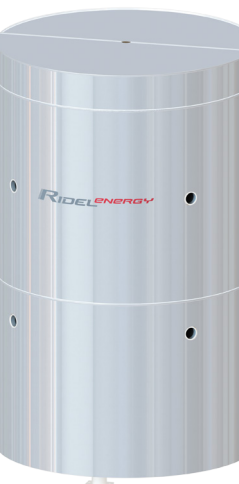
Enamel-coated tank
Volume : 200, 270 and 380 L
Power : 18, 36, 60, 82 and 100 kW
High efficiency up to 110%

| Energy Storage



Energy storage for hot water

Storage in DHW or technical water
Volume : 300 L to 3000 L (enamelled with hh)
300 L to 20 M3 (black steel)
Insulation : indoor or outdoor



Energy storage for chilled water

Volume : 300 to 3000 L (enamelled)
300 L to 20 M3 (black steel)
Insulation : injected PU foam th.40mm
+ Isoxal 8/10^{ème}



Energy storage tank in stainless steel

Storage for DHW or technical water
Volume : 300 L to 20 M3
Insulation : indoor or outdoor



R&D - DESIGN - COSTING

Our pre-sales team and our engineering department help you to select and size the equipment you need.

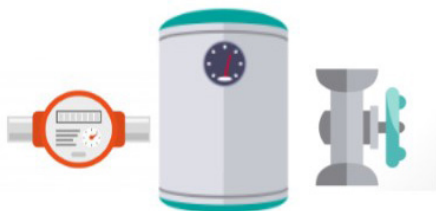
They also assist you in developing customised technical solutions to meet your specific requirements.



AFTER-SALES SERVICE

Assistance during the installation and trouble-shooting process, replacement of pieces under guarantee: our after-sales team is at your disposal to ensure an efficient installation.

We also provide you original and quality spare parts to guarantee the optimal performance of your Ridel-Energy equipment.



ADDITIONAL ACCESSORIES

To complete your Ridel-Energy installation, we provide you with an additional range of materials and accessories, carefully selected by our team.

Hydraulic kits, electrical kits, immersion heaters, expansion systems, plate heat exchangers, circulation pumps, energy meters, water heaters.

Partnership: Wilo Salmsen for circulation pumps,
Dhiel Metering for energy meters.



SUBSIDIES AND FUNDING

Depending on your local regulations, your heat recovery solution may be eligible for subsidies, part-funding or investment tax allowances.

This could help to finance part, or all, of the of the heat recovery equipment and its installation.

Please refer to your relevant authorities for more information or ask us to assist you in this process.



RIDEL ENERGY