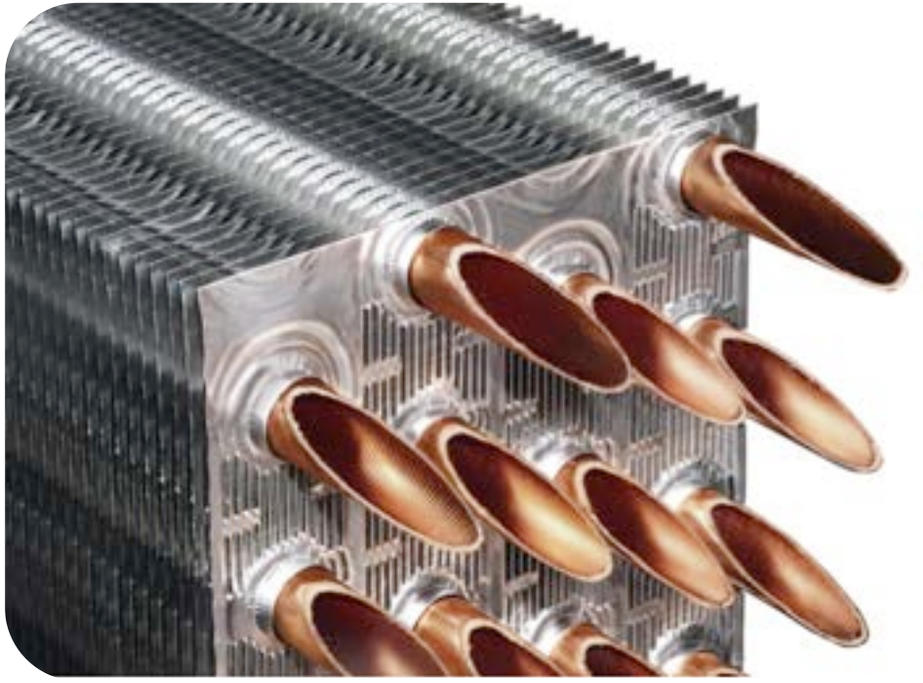

LU-VE
GROUP
leadership with passion
Naturally,
LU-VE makes it better

Heat exchanger solutions

Thanks to the constant research and development led by **continuous innovation** in the manufacturing of heat exchangers, we are able to offer the best solutions for a wide variety of markets and applications operating (also in challenging conditions).
Our passion is there to satisfy market needs and to contribute **to a more sustainable world**.



- **Tube miniaturization** = reduced refrigerant charge
- **High performance** heat transfer technology
- **Zero defect policy**
- **E-Genius:** dedicated calculation software
- Reusable packaging = **low carbon footprint**
- Proximity to customers = **reduced transport emissions**
- **Single-material:** full aluminium coils

Maximized performance and efficiency

Minimized refrigerant charge

Corrosion resistance

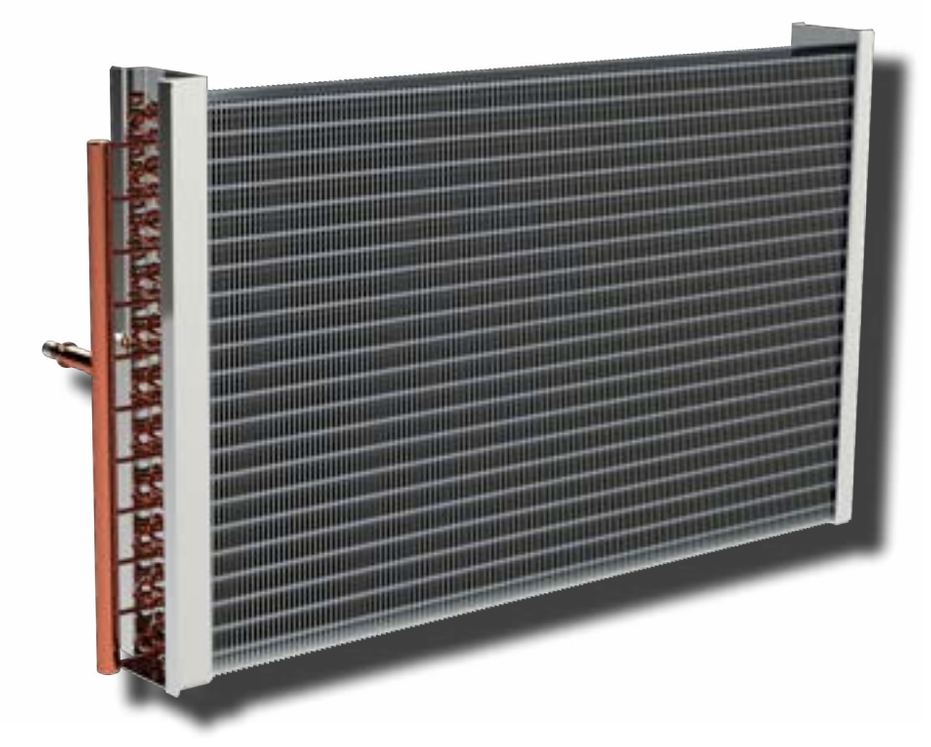
Lower weight

Higher working pressure

Smaller carbon footprint

New heat exchanger with 4 mm diameter tube

LU-VE Group research has led to the creation of a new heat exchanger with 4mm diameter tube which **improves performance by minimizing refrigerant charge.**



- Ideal solution **for residential heat pumps**
- Further **20% reduction of internal volume***
- **Reduced refrigerant charge**
- Safer use of **A2L refrigerants**
- **Less copper,** optimizing cost
- **Improved performance****
- **Lighter weight**
- Guaranteed production **flexibility**

*compared to 5 mm tube

**compared to traditional solutions with equal heat transfer surface

REFRIGERATION

Refrigerated display cases and serve-over counters
Positive temperature vertical and semi vertical cabinets
Negative temperature vertical and horizontal cabinets
Condensing units / Monoblocks

REFRIGERATED TRANSPORT

Refrigerated trailers and trucks
Refrigerated containers for marine application

VEHICLE AIR CONDITIONING

Railways
Automotive
Bus/Coach
Agricultural machines

HVAC

Split / Condensing units
Chiller and heat pumps
(air to water units)
Roof top (air to air units)
Fan coil, cassette, terminal units
Chilled beams
AHU/Heat recovery

HOUSEHOLD APPLIANCE

Heat pumps systems for
tumble dryer applications

RESIDENTIAL HEAT PUMP

Indoor/outdoor fin and tube heat
exchanger for heat pumps

Coils - fins and tubes

Each solution is engineered to fit the requirements of the market with tailor-made products.

The productive experience of LU-VE Group has always interpreted material and technology research as the real first step towards **proposing innovation.**

tubes

COPPER

Material frequently used in the production of heat exchangers, available with grooved or smooth internal surface, to guarantee operation at different pressures.

ALUMINIUM

Alternative material, providing a lighter and cheaper exchanger, facilitating its recycling.

FIN SURFACE

Alluminium and copper

FLAT

Flat fins have the lowest resistance to air flow and reduced ice accumulation.

CORRUGATED

Corrugated fins improve the heat transfer factor to a lower degree than louvered fins, but with a lower pressure drop on the air side.

LOUVERED

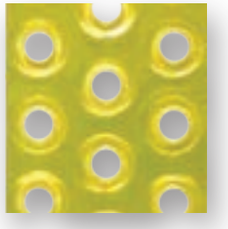
Louvered fins increase the heat-transfer capacity by creating air turbulence, considering the same exchanging surface.

FIN SURFACE TREATMENTS

Surface treatments available on request

HYDROPHILIC

With this treatment fins become hydrophilic and therefore "wettable", avoiding the formation of drops.



HYDROPHOBIC

Epoxy-based treatment that effectively inhibits dust and bacteria build up.

SUPER HYDROPHOBIC

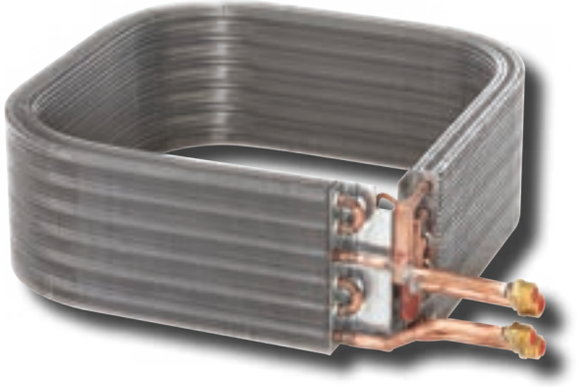
Nanotechnology used to create a surface coating that guarantees high protection against corrosion and the deposit of dust.

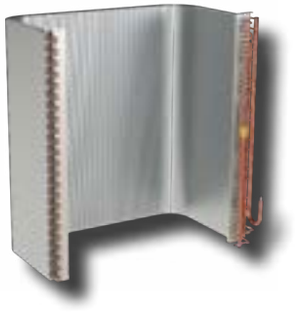
Coils - technology

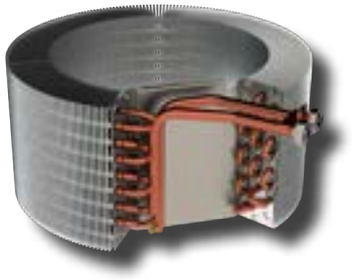
ADDITIONAL PROCESSES

BENT HEAT EXCHANGERS

For all applications in the air conditioning and residential heat pump sector, where specific flexibility and restricted dimensions of the finished product is requested, LU-VE provides its customers shaped exchangers with various radii of bend. Typical applications are:
chillers, heat pumps and cassettes.







PROTECTION YOU CAN TRUST

CATOCOAT

CATOCOAT is the tested and guaranteed **coating technology** which LU-VE has been offering to its customers **since 1996** and which today has evolved even further using new technologically advanced equipment.

The main advantages of the CATOCOAT technology are:

- Extensive and regular treatment in any complex shapes
- **Thin film**
- **Corrosion resistance** in salt spray test> 1,000 hours
- **Better resistance** compared to the other powder treatment technologies and pre-coated raw materials
- **Food products compliance**
- Low environmental impact thanks to the use of water-based paints and state-of-the-art installation works

EXCLUSIVE TECHNOLOGY

ST: Standard steel condensers

Tubeless steel heat exchangers.

Over 26,000,000 units manufactured up to 2022 using a unique patented method.

The combination of high mechanical strength and anticorrosion treatment make it ideal for applications without physical protection.

Thanks to its structure, fin cleaning can easily be done with compressed air.

www.luvegroup.com

LU-VE GROUP

leadership with passion

OUR BEST DAYS HAVE YET TO BE LIVED

Nazim Hikmet

100% recycled

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