

Product Overview

Evaporators / Condensers / Fluid Coolers

NH₃ - CO₂ - HC - HFC/HFO - Water



LU-VE GROUP

Evaporators / Condensers / Fluid coolers for industrial and commercial refrigeration, air conditioning and industrial applications.

LU-VE S.p.A. is the holding company of LU-VE Group. In 1985 LU-VE S.p.A. acquired Contardo S.p.A., established in 1928. Production began in 1986.

LU-VE quickly made its mark thanks to high standards of quality, new solutions designed in its own laboratories and to the care taken with the appearance of its products.
(Beautiful outside - Revolutionary inside).

It was the first company in the world to apply avant-garde solutions to commercial and industrial refrigeration:

- **grooved tube technology;**
- **"louvered" fins;**
- **certified performance;**
- **EC fan motors;**
- **innovative materials;**
- **advanced design.**

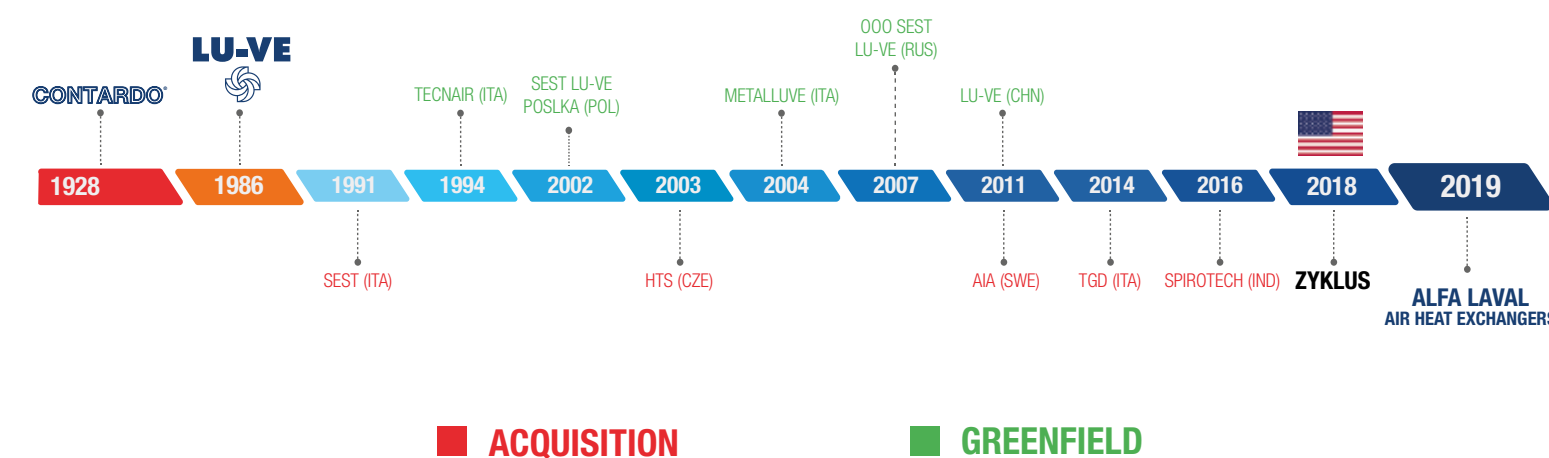
The success of **LU-VE** in the international market stems from its research and development policy, its great respect for the environment and its rigorous ethical and commercial principles.

In 2000, **LU-VE** was the first company in Europe to attain the prestigious **Eurovent "Certify-All"** certification for the entire range of its products: unit coolers, condensers and fluid coolers.

LU-VE and the Group have introduced new ways of conceiving and constructing products for refrigeration, air conditioning and industrial applications, creating new technologies which have then gone on to become the benchmark for the entire industry.

In the year 2018 LU-VE Group entered the North American market by purchasing the local manufacturer Zyklus Heat transfer Inc.(Jacksonville, TX). In 2020 the construction of a new production facility has begun with the purpose to better serve the local market.

In 2019 with the acquisition of the Alfa Laval Air, LUVE Group became the 3rd largest coil manufacturer in the world increasing its strength in the industrial refrigeration business.



THE GROUP

LU-VE Group is one of the major manufacturers in the world in the coil business.

The Group (with HQ in Uboldo, Varese, Italy) consists of **16 manufacturing facilities** in **9 countries**:

Italy, China, Czech Republic, Finland, India, Poland, Russia, Sweden and USA with a network of sales companies and representative offices in Europe, Asia, the Middle East, Oceania and USA.

More than **3,200** skilled employees

More than **600,000** ft2 total surface area

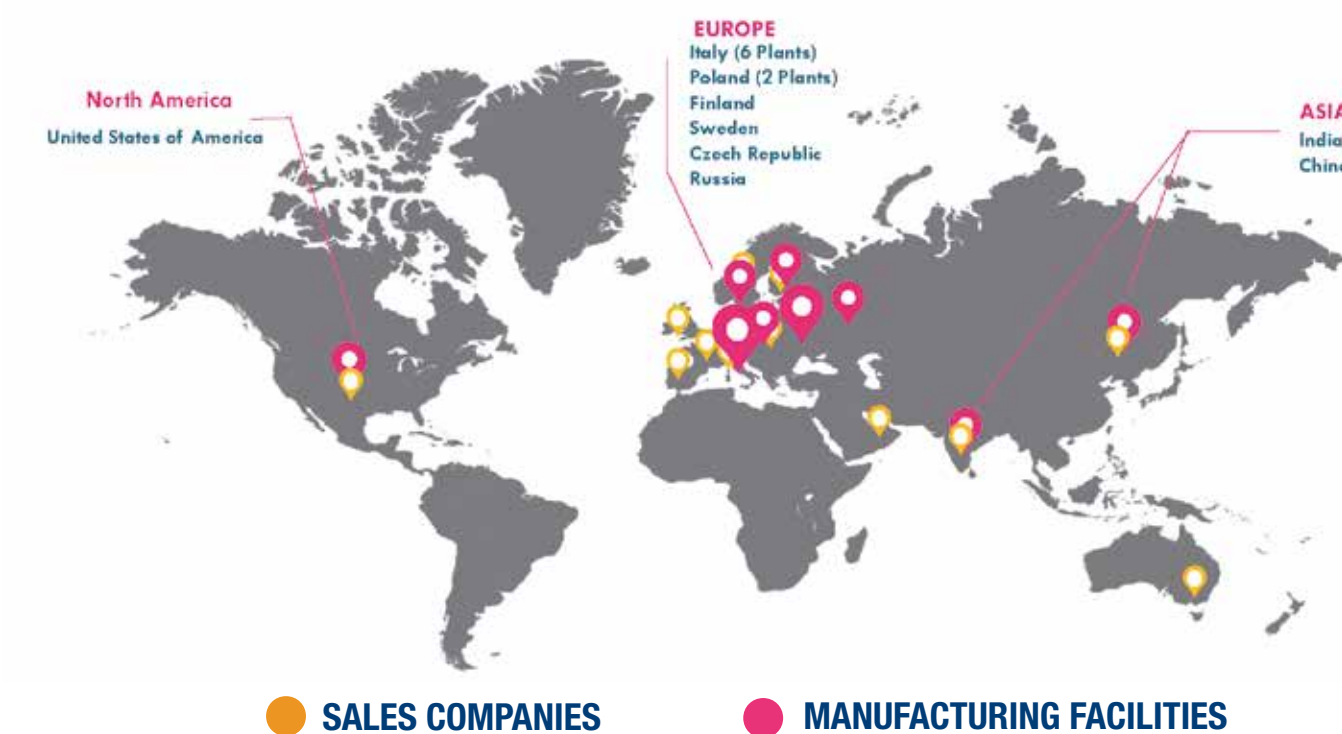
More than **210,700** ft2 covered area

3,200 ft2 of R&D laboratories

More than **80%** of production exported to **100** countries

Revenues USD **420.7** million (pro-forma 2018)

Listed on the **Milan Stock Exchange (MTA)**



For quotation, please contact
Clark Johnson Co., Inc
Mid States Refrigeration Supply, Inc.

www.luve.it



PRODUCTS

PRODUCT FEATURES

- Performance maximization thanks to the use of louvered fins and internally grooved small-diameter seamless tubes
- Fan shroud optimisation
- High quality white powder coated galvanized steel casing
- Stainless steel or copper tubes
- Aluminum, copper or corrosion protected fins
- 5.6 / 4.2 / 3.6 / 2.5 / 2.1 FPI

EFFICIENCY

- Energy savings thanks to ECM motors
- Reduction of refrigerant charge

DEFROST OPTIONS

- Air Defrost
- Electrical Defrost
- Hot gas defrost
- Glycol defrost
- Water spray defrost

SPACE AND TRANSPORT SAVINGS

- Overall dimension and weight reduction

TIME SAVING

- Easy Installation and maintenance
- High quality design
- Maximum reliability of all components
- Minimum LCC (Life Cycle Cost).

FAN OPTION

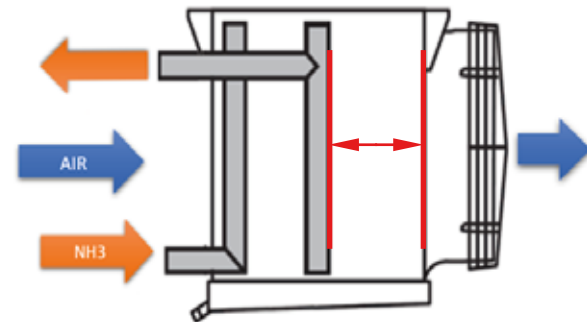
Wide range of high-efficiency ECM fan motors

FAN DIAMETERS



ACCESSORIES

- 45° and 90° down configuration
- Wiring and NEMA 4x boxes
- Hinged fans
- Radial fans
- Stainless Steel casing
- Deforst hoods and shutters
- And many others.



- Vertical headers for air/refrigerant co-flow design
- Large plenum



- ½" INOX diameter tubes or 3/8" copper tubes
- Seamless hairpins tubes

EVAPORATORS

Medium profile

5.0 – 19.4 TR



1-4 Fans

High profile

1.1 – 35.0 TR (UL listed Units)



1-4 Fans

Low velocity

1.4 – 19.8 TR



1-4 Fans

Process room cooler

2.0 - 21.7 TR



1-5 Fans

Special-Application Evaporators



Low profile

2,800 - 155,400 BTU/h (UL listed Units)



1-4 Fans

Low velocity

3,800 - 37,600 BTU/h (UL listed Units)



1-4 Fans

Angled

3,600 – 23,500 BTU/h



1-4 Fans

Angled

2,100 - 15,700 BTU/h



1-4 Fans

AIR COOLED AND ADIABATIC CONDENSERS

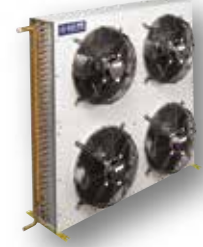
Minichannel

35 - 928 MBH



Small flatbed

14 - 309 MBH



Flatbed

52 – 5,945 MBH (UL listed Units)



V-shape Small Giants

183 – 3,754 MBH



V-shape Giants

743 – 8,783 MBH



Radial-fan type

244 – 1,666 MBH



Emeritus

Combined adiabatic and spray system



NEW
COMBINED SPRAY
+
ADIABATIC SYSTEM

FLUID COOLERS

Small flatbed

41 – 4,992 MBH



V-shape Small Giants

143 – 3,040 MBH



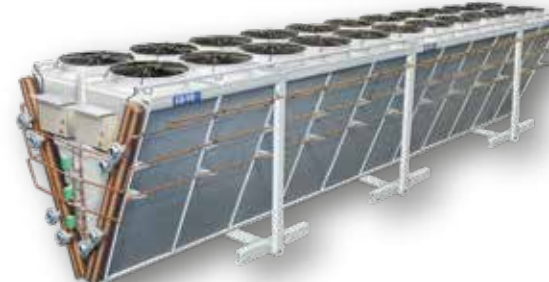
V-shape Giants

597 – 7,007 MBH



V-shape Mega Giants

1,302 – 8,757 MBH



APPLICATIONS

The production strategy of LU-VE is based on its “Towards Excellence” program.

This concept is an inherent part of the core business of the entire Group, whose products are very closely connected to quality of life. They are used in the refrigeration of food; in air conditioning for homes, hospitals, work places and transportation; in the production of energy; and in industrial applications.

Industrial and commercial refrigeration

Air conditioning

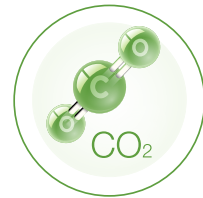
Industrial Process

OEM Coils

LU-VE TECHNOLOGY

PIONEERS IN CO₂ APPLICATIONS

LU-VE has been dealing with CO₂ for more than 15 years. Thanks to its private CO₂ test room (the first in Europe for a private facility) the design of CO₂ evaporators and CO₂ gas coolers maximizes capacity and efficiency.



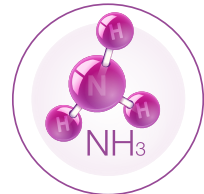
2004 - 1ST CO2 transcritical installation in EUROPE (Coop, Wettingen)

Evaporators : 652 PSI / 870 PSI / 1232 PSI

Gas Coolers : 1740 PSI

LEADING THE LOW CHARGE NH₃ REVOLUTION.

Thanks to the use of small diameter tubes and specifically designed circuits, LU-VE ammonia unit coolers are designed to work with low recirculation rates. In the Ammonia DX applications the patented Jet-o-matic distributor guarantees calibrated circuit feeding thus increasing the evaporator efficiency. On the high pressure side, the adiabatic technologies applied to ammonia condensers help limiting the plant ammonia charge.



ADIABATIC AIR COOLED CONDENSERS AND FLUID COOLERS

This new technological advance (patent pending) is the result of collaboration with the Polytechnic University of Milan and brings together the benefits of spray systems and adiabatic pre-cooling. A sophisticated control system maximizes the effects of these combined systems. The specific features of this product make it especially suitable for use in air conditioning and refrigeration.

