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FROID NEWS

THE PREMIUM MAGAZINE FOR THE REFRIGERATION LOGISTICS SECTOR



THE SOFRIGAM GROUP
PROVIDES AN ECOLOGICAL
RESPONSE TO URBAN
LOGISTICS UNDER
CONTROLLED TEMPERATURE

COLDWAY TECHNOLOGIES
AUTONOMOUS
REFRIGERATION
OF THE 21ST CENTURY





THE SOFRIGAM GROUP AT THE HEART OF ECO-FRIENDLY LOGISTICS

GILLES LABRANQUE, CEO

The Sofrigam Group provides transport and logistic systems where temperature control of products is required.

Sofrigam is well known world-wide for products temperature-assured packaging for the pharmaceutical and biotech markets.

Sofrigam is already well known both in France and Internationally for its capacity to produce a wide range of certified insulated conditioning, specifically for the health product sector. The acquisition of Coldway in 2018 has widened the company's products to include a unique range of eco-responsible urban logistics to meet all the needs of active refrigeration.

Due to the patented refrigeration unit, which ensures that temperature is maintained with extreme precision, the Coldway Technologies solutions cover an extended number of different sectors – such as the food industry, health product and a variety of other applications that need a strict adherence to certain temperature levels. While keeping in mind an environmental and sustainable

approach, the Sofrigam Group along with Coldway Technologies have developed an innovative and disruptive concept, which combine solid-gas sorption technology with a system of eco-responsible transport, working in close cooperation with manufacturers of electro-mobility solutions. Our solution combines the quality and precision of Coldway Technologies's temperature concept with the environmental constraints and statutory requirements to enter town centres, especially Paris. As well as fulfilling the needs of the final leg of deliveries, commonly called 'last mile delivery' - Coldway Technologies solution allows the transport in light commercial and 'dry' industrial isothermal equipment. Flexibility of use permit the Coldway Technologies containers to store temperature sensitive products in warehouses, dispensaries or the pharmacies in healthcare establishments.

Convinced of the merits of the technical services of the Sofrigam Group, you are invited to discover our solution in this special edition of Froid News. ■

A CERTAIN VISION OF PREMIUM REFRIGERATION

21st century refrigeration : Coldway Technologies' claim is to be the perfect answer to the future urban mobility challenges : producing refrigeration systems which can be mounted on any type of vehicle or container while offering a regulated, autonomous, silent and carbon-free temperature.



Evaporator, a component of the Coldway Technologies refrigeration unit installed inside a container.

Coldway Technologies says stop to the asphyxiation of towns by contributing to the energy transition for eco-responsible urban deliveries.

68 % urbanised world population by 2050 (55% in 2020)

90 billion euros home deliveries (+4% per year since 2015)

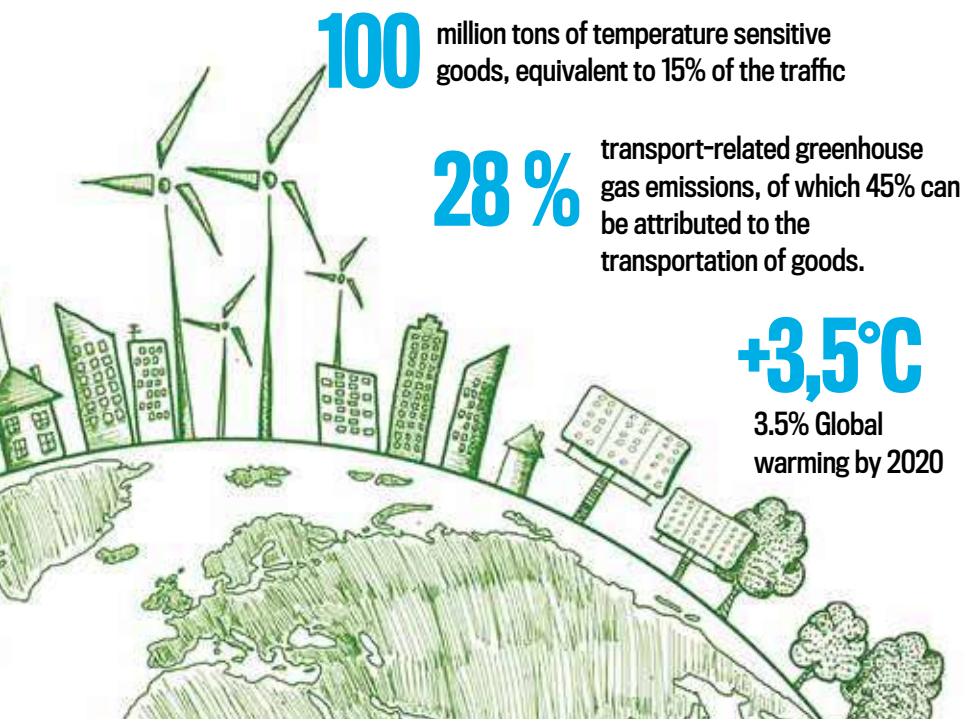


"With Coldway Technologies we offer a range of autonomous and flexible temperature controlled products, ensuring the quality of the refrigeration and complete reliability. It is an important differentiating element as we enter the world of precision with top-of-the-range refrigeration," explains Gilles Labranque, CEO of the Sofrigam Group. "Our insulated containers are equipped with a refrigeration unit that uses a natural refrigerant," comments David Tadiotto, Chief Operating Officer at Coldway Technologies. "The scientific name of this refrigerant is R717, which replaces the banned HFC listed by the F-GAZ 2030. Our refrigeration system is very robust. It has a very low TCO and it is cost-effective within a short time." The system has a service life of well over 10 years, and needs no maintenance by a refrigeration technician nor will there be a decline in performance. The technology may seem complex from the outside but the usage is simple – hence the expression 'Unplug and Play', meaning "I unplug and press the button to start a new refrigeration cycle". In addition, this technology offers a highly differentiated operational point due to an electro-valve that regulates the controlled temperature in a very precise manner and with a reaction time of less than a second. ■



The modular range includes 8 refrigeration units with power of between 500W/h and 4.4 kW/h.

"THE SOFRIGAM GROUP HAS SHOWN WILLINGNESS TO DEVELOP PRODUCTS RELATED TO RSE AND HAS TAKEN A QUANTUM LEAP FORWARD WITH THEIR CONNECTED OBJECTS AND SIMILARLY COLDWAY TECHNOLOGIES WITH THEIR URBAN LOGISTICS."
SAYS GILLES LABRANQUE, CEO SOFRIGAM GROUP.



THE STAKES OF URBAN LOGISTICS

Coldway Technologies, a division of the Sofrigam Group, handles energy transition with silent, carbon-free, urban deliveries.

The regulatory constraints concerning the access to town centres has been anticipated by the company as well as the ban on refrigerants emitting greenhouse gas. Coldway Technologies' neutral refrigerant solution will help to improve the quality of life: 73% of the French consider that environmentally-friendly solutions would be desirable and 54% report being troubled by noise pollution. ■

> INNOVATION

COLDWAY TECHNOLOGIES REINVENTS THE COLD SUPPLY CHAIN

Coldway Technologies brings pertinent solutions to urban logistics for the last mile delivery under controlled temperature. The manufacturer, a subsidiary of the Sofrigam Group, is ready for deliveries for today and tomorrow.

Thanks to the Coldway Inside technology, the logisticians can finally equip themselves to deliver temperature sensitive products in an eco-sensitive, eco-responsible quality approach. The manufacturer provides concrete answers with regard to maintaining temperatures, silently, without CO2 emissions and totally autonomous. "We are entering the world of high precision that ensures quality

temperature and the total respect of the temperature set point" commented David Tadiotto, Chief Operating Officer, Coldway Technologies. "We bring all the answers for urban mobility with zero CO2 emission, an autonomy covering daily deliveries and total silence so as to respect the constraints of staggered delivery times." With a wide range of

temperatures from -21°C to +25°C, the Coldway technology is insensitive to outside climatic conditions (tested in constant temperature at -10°C, +32°C and +43°C) for a 12-24 hour autonomy per cycle even at +43°C (outside). The range is structured around 8 sizes of refrigeration units that will be installed in Rolls and Containers, from 96 litres to 2800 litres. ■

RELATED SERVICES

With the assistance of its specialist technicians from Coldway Technologies, Sofrigam Group is able to offer the integration of the system by their teams as well as customer training for an optimal use of the product. A support contract will ensure the correct use of the system during the first year in use. Added to that, the R&D Department will respond to the needs of specific development according to the industrial demand of the manufacturers of cycles, vehicles and bodybuilders. As the system is modular, the Sofrigam Group is able to respond to a large number of custom power requests, by rapidly estimating the performances of the solution and the operating costs.

Most products in the Coldway Technologies range are ATP A class listed (0°C / +7°C).

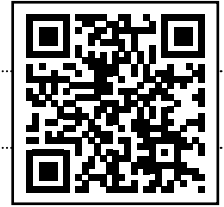


The Sofrigam Group adheres to the Certibruit (noise) charter. The 8 refrigeration units manufactured by Coldway Technologies are certified PIEK "component".



The company has signed a container-marking agreement with Cemafruid, concerning transport vehicles of transport under controlled temperature.





> TECHNOLOGY

CERTAINLY THE BEST ECO-RESPONSIBLE SOLUTION OF URBAN LOGISTICS

The “Coldway Inside” sorption system is at the heart of the refrigeration group Coldway Technologies. It can equip adaptable modules to almost any fleet of vehicles, including cycles, tricycles and electric scooters. The motor uses an innovative technology based on a natural fluid combined with a mixture of salts and graphite that distinguishes itself from its competitors.

Advantages:

- Autonomous production of cold or heat with an excellent precision of temperature.
- Temperature control by the NFC ColdTrace system
- Silent night deliveries -50dB(A), Piek certified
- 6h30 charge up time for a minimum of 12 hours autonomy, under all kinds of climatic conditions.
- The possibility of several thousands cycles.
- Very little or no maintenance. Service life over 10 years. ■

> LAST MILE

SAVEURS & VIE DELIVER MEALS IN PARIS *

Saveurs & Vie have chosen Coldway Technologies to ensure the delivery of meals to isolated people by using high quality refrigeration.



"Saveurs & Vie is a service company specialised in home meal deliveries to the elderly, dependant or vulnerable people” commented Julie Burgy, Purchasing Manager for Saveurs et Vie. The company is proud to serve a 4 year contract with the Paris Town Council thanks to its fleet of some fifty refrigerated goods vehicles. Saveurs & Vie have equipped their fleet with Coldway autonomous containers to comply with the Town Council's tender specifications requiring business partners capable of ensuring eco-responsible and silent, urban logistics. Coldway Technologies were able to bring appropriate solutions with zero CO2 emissions and access to pedestrian areas. Since June 2017, Saveurs & Vie has bought 12 electric vehicles equipped with Coldway Inside containers and have been very satisfied with this flexible, high quality refrigeration solution which is easy to operate. So happy that in 2018, they decided to reinforce their fleet with no less than 37 electrically-assisted tricycles equipped with Coldway technology. ■
* and in several towns around Paris.

> HEALTH - PHARMA

GANDON TRANSPORTS USE THE COLDWAY TECHNOLOGIES SOLUTION

Gandon Transports have successfully been using the Coldway Technologies solution since 2017 and have a dozen Rolls in 9 branches of its network at +2°/+8°C and +15°C/+25°C.

"We wanted to bring more flexibility to our clients' logistics processes. In this context, we chose the Roll 1100 OL which is used as a mobile cold store. Our initiative was well received by our clients for whom we offer a made-to-measure, flexible service. We are satisfied with the durability of the material - especially the Coldway Technologies unit - and we plan to reinforce our fleet with some more refrigerated cabinets” testified Joël Gandon, CEO, Gandon Transports. ■





▲ Ligier Pulse 4 equipped with a customized 1200L container (A420 unit) ; maintains 0°C/+4°C up to 19h with an ambient temperature at 32°C.



▲ 900L Olivo Roll (A420 unit) maintains 8h at -18°C with an ambient temperature at 30°C, 30h at +2°C/+8°C with an ambient temperature at 32°C and 17h at 0°C/+4°C with an ambient temperature at 43°C.



▶ Ligier Pulse 3 equipped with a 108L Coolcase (A213 unit); maintains 20h at +2°C/+8°C with an ambient temperature at 32°C and 15h at 0°C/+4°C with an ambient temperature at 43°C.

▼ Loading of a container 1,500L(A420 unit) in a Ford Transit Courier maintains at 2°C/8°C for 20h at 32°C ambient temperature; maintains 14h at 0/4°C at 43°C ambient temperature.



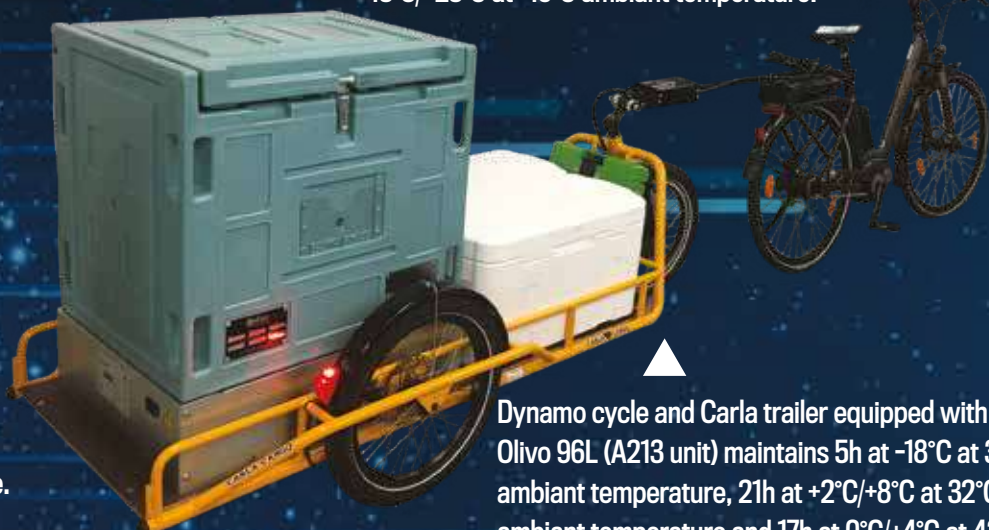
SL TO 2394L (PAYLOAD)
TO 1083L (PAYLOAD)



▲ Lovelo, electrically assisted tricycle equipped with a specific 720L container (A413 unit); maintains 12h at 0°C/+4°C at ambient temperature of 30°C.



▲ Renault Kangoo equipped with a dual temperature container 2x200L (A413 unit); maintains 19h at +2°C/+8°C at 32°C ambient temperature and 21h at +15°C/+25°C at -10°C ambient temperature.



▼ Roll Melform 1300L (A420 unit) maintains 16h00 at +2°C/+8°C at 32°C ambient temperature and 10h at 0°C/+4°C at 43°C ambient temperature.

▲ Dynamo cycle and Carla trailer equipped with Bac Olivo 96L (A213 unit) maintains 5h at -18°C at 30°C ambient temperature, 21h at +2°C/+8°C at 32°C ambient temperature and 17h at 0°C/+4°C at 43°C ambient temperature.



▼ Pickup truck Gastone Esagone equipped with a 1500L container (A420 unit); maintains 20h at 2°C/8°C at 32°C ambient temperature; maintains 14h at 0°C/+4°C at 43°C ambient temperature.



A UNIQUE, GLOBAL OFFER IN THE COLD CHAIN

Our corporate aim is to develop and manufacture temperature controlled solutions and shipping services. We have the best possible technology available to reduce energy consumption and costs, to improve the reliability of shipments, protect the environment and guarantee our clients satisfaction.



SOFRIGAM GROUP



**PASSIVE
REFRIGERATION
TECHNOLOGY**

Design, development and manufacturing experts for insulated packaging solutions.



La Boutique
du Froid

Solutions pour le respect de la chaîne du froid

**E-COMMERCE
Web platform**

specializing in the sale of certified solutions for 'last mile' deliveries.



**ACTIVE REFRIGERATION
TECHNOLOGY**

Design and manufacture of autonomous refrigeration systems for temperature controlled logistics.



MÉTROLOGIE
Centre d'essais thermiques

**THERMAL TESTING
CENTRE**

Thermic efficiency tests and thermodynamic measurements.

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