

# Tewis

a member of **DAIKIN** group



## 2026 COMMERCIAL REFRIGERATION PRICE LIST



## CO<sub>2</sub>

Commercial refrigeration with triple efficiency, developed and manufactured in Spain, marketed worldwide.





## THE FUTURE IS NATURAL

The refrigeration sector is undergoing a constant process of transformation, driven by continuous technological advances and increasingly demanding regulation.

The gradual phase-out of HFCs, the pressure on high-GWP gases, quota reductions and the regulatory outlook surrounding PFAS are shaping a scenario in which the solution is no longer merely technical, but has become a decision that directly affects the profitabi-

lity, stability and future viability of each installation.

In this context, natural refrigerants, and particularly CO<sub>2</sub> (R744), are becoming established as the safest option with the greatest long-term potential for commercial retail. With a GWP of 1, no PFAS formation and no future restrictions, CO<sub>2</sub> reduces regulatory uncertainty and secures the profitability of investments in the medium and long term.

In addition, the evolution of systems and developments such as our ECO2SMART and ECO2SMART+ have improved the efficiency of CO<sub>2</sub> even in extremely hot climates, reducing operating costs and reinforcing its strategic value for retail.

Against this backdrop, Tewis positions itself not only as a manufacturer, but as a solutions engineering company for today's challenges.

With a comprehensive 360° approach, we develop and manufacture commercial and industrial refrigeration solutions adapted to the space, capacity and maintenance requirements of each project, with the lowest possible TEWI index. Solutions designed to help our customers grow by providing significant energy savings, greater regulatory stability and a faster return on their investment.

Furthermore, since 2018, Tewis has been part of the Daikin Group, which strengthens our capability and responsiveness across Europe. Experience, innovation, technology, operational efficiency and a long-term vision that allow us to offer more efficient solutions for retail, logistics platforms, semi-industrial applications and industry.

### 360° INTEGRATED SOLUTIONS

With a cross-functional working system based on active listening, Tewis offers integrated refrigeration solutions with a 360° approach covering engineering, cabinets, control systems, installation, commissioning and maintenance. All of this with Tewis as the sole point of contact, ensuring installations that are more efficient, more stable and better prepared for regulatory changes. In addition, we incorporate our own digital platform from which refrigeration equipment can be managed, with real-time monitoring, cloud access and IoT functions. Integrated solutions focused on the customer.



## SOLUTIONS FOR EVERY NEED

At Tewis, our goal is to deliver the most suitable, efficient and sustainable solution for your project, ensuring long-term value and profitability.

Our solutions provide **TRIPLE EFFICIENCY** through energy savings, regulatory security and stability, and a rapid return on investment making Tewis the ideal strategic partner to strengthen your competitiveness and protect the long-term viability of your investment.



### CONFIGURABLE SOLUTIONS









- ✔ Plug & play transcritical CO2 racks.
- ✔ Wide capacity range (from 14 to 250 kW).
- ✔ Compact dimensions.
- ✔ Large number of optional features.
- ✔ Easy maintenance.



### CUSTOMISED SOLUTIONS

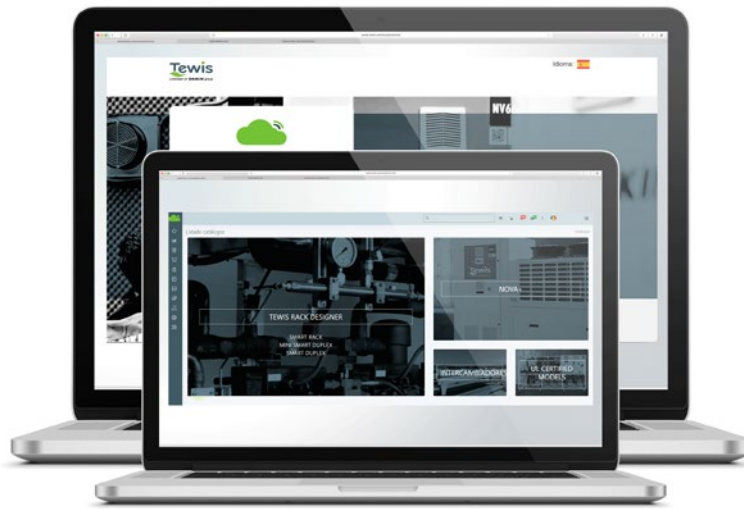
- ✔ Semi-industrial / industrial racks.
- ✔ Capacities and structures according to project requirements.
- ✔ Transcritical or subcritical.
- ✔ CO2 / NH3 / GLYCOL

MT LT

DEVELOPMENT & TECH		<b>SRC + IoT</b>		Page
		Tewis digital platform for managing, supervising and analysing refrigeration equipment, with real-time monitoring and cloud-based IoT functions integrated into your Tewis rack.		30
SOLUCIONES CONFIGURABLES		<b>NV58+</b>	<span style="color: blue;">■</span> de 14 a 53 kW <span style="color: grey;">■</span> de 0 a 8 kW	Page
		<b>MT BOOSTER</b>	Compact and modular CO2 unit in transcritical cycle. Up to 3 compressors and Ps. 130 bar. No emergency unit required.	24
		<b>300 / &lt;800 m<sup>2</sup></b>		
		<b>NV66+</b>	<span style="color: blue;">■</span> de 22 a 70 kW <span style="color: grey;">■</span> de 0 a 15 kW	Page
		<b>MT BOOSTER</b>	Compact and modular CO2 unit in transcritical cycle. Up to 5 compressors and Ps. 130 bar. No emergency unit required.	26
		<b>700 / &lt;1200 m<sup>2</sup></b>		
		<b>SMART RACK</b>	<span style="color: blue;">■</span> de 40 a 130 kW <span style="color: grey;">■</span> de 0 a 28 kW	Page
	<b>MT BOOSTER</b>	Compact CO2 rack with features and optional components designed according to retail needs for greater profitability.	28	
	<b>600 / &lt;1500 m<sup>2</sup></b>			
	<b>MINI SD</b>	<span style="color: blue;">■</span> de 50 a 150 kW <span style="color: grey;">■</span> de 0 a 35 kW	Page	
	<b>MT BOOSTER</b>	CO2 booster rack with 6 compressors and ECO2SMART system incorporated as standard. A highly efficient unit with high capacity and compact	32	
	<b>1000 / &lt;2000 m<sup>2</sup></b>			
	<b>SMART DUPLEX</b>	<span style="color: blue;">■</span> de 80 a 250 kW <span style="color: grey;">■</span> de 0 a 75 kW	Page	
	<b>MT BOOSTER</b>	The compact rack with the highest capacity and performance in CO2 for commercial refrigeration. It can include up to 9 compressors.	34	
	<b>1500 / &lt;3000 m<sup>2</sup></b>			
	<b>CO2 INDUSTRIAL</b>	<span style="color: blue;">■</span> de 80 a 250 kW <span style="color: grey;">■</span> de 0 a 75 kW	Page	
	<b>MT BOOSTER</b>	Semi-industrial and industrial solutions, customised, efficient and sustainable, with transcritical or subcritical CO2 for demanding installations.	34	
	<b>1500 / &lt;3000 m<sup>2</sup></b>			
CONTROL		<b>CONTROL &amp; SAFETY</b>		Page
		CONTROLS and ALARMS FOR COLD ROOMS with electronic expansion valve. Maximum control for food safety, fewer product losses, longer service life for your refrigeration equipment.	34	



# SmartRetailCommunity



## Management, configuration, analysis and monitoring from a single platform

SRC is Tewis's digital platform for managing, supervising and analysing refrigeration equipment throughout its entire life cycle. A cloud-based integrated system that centralises documentation, incidents, warranties, spare parts and remote access, enabling more agile, straightforward and secure management.

A connected ecosystem in which all authorised profiles involved in the installation work within a single environment. From the end customer to the technical service team, the supplier and the per-

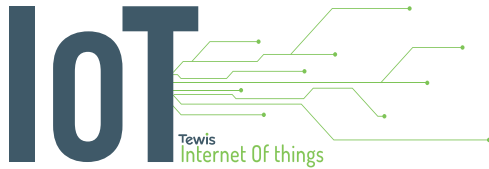
son responsible for control, everyone accesses centralised information, improving coordination among all those involved in the installation and providing a more complete and operational view of every intervention.

With the incorporation of IoT functions, SRC goes one step further and allows, among other functions, real-time rack monitoring, simultaneous performance comparison, historical analysis with precise time resolution and centralised alarm management. All this without the need

to connect to external web devices, in a secure, encrypted and reliable environment. A platform designed for owners, installers and maintenance managers, enabling them to analyse one or several installations, optimise their performance, reduce energy and maintenance costs, anticipate incidents or understand what has happened in order to prevent it from happening again.

Compare, evaluate and make better decisions. An intelligent way to help increase the profitability of all our customers.





The only real-time monitoring system with cloud-based IoT functions, integrated into your Tewis pack. Simple, preconfigured and ready to help you reduce maintenance and energy costs.



### HISTORICAL ANALYSIS IN JUST ONE CLICK

Tewis racks periodically record and send data to SRC with a time resolution of 1 minute. Analyse and compare the performance of your racks in detail. Save your most frequently used analyses so that you can view them in just one click and take the necessary decisions.



### VISUALISATION OF GEO-LOCALISED KPIS

Turn analyses into KPIs to display on your asset map and compare your racks geographically according to the selected KPI. See the position of each unit in the KPI ranking you have defined.



### REMOTE REAL-TIME MONITORING

Select the unit or units you need to review in real time. Understand their operation instantly. View graphically the evolution of the variables you need, including from different racks at the same time. No local supervisors or additional configurations required.



### TIMESCOPE SYNOPTIC WITH TIME CONTROL

Discover what has happened in your pack as if it were a video. An exclusive SRC function that opens up new possibilities for technical analysis and fault diagnosis, facilitating operational decision-making from anywhere. All integrated into your own pack.



### CENTRALISED ALARM MANAGEMENT

SRC automatically collects the alarms generated by your units. A complete history with multiple filters for detailed analysis. With key information, current status and a contextual graph showing the behaviour of the unit before and after, making diagnosis easier.



### TRUST, PRIVACY AND SECURITY

SRC guarantees a secure and reliable IoT service. Data subject to revocable consent and with no digital footprint. Data transmission and access through secure, encrypted and authenticated VPN communications. End-to-end encryption, multi-factor authentication and role-based management.

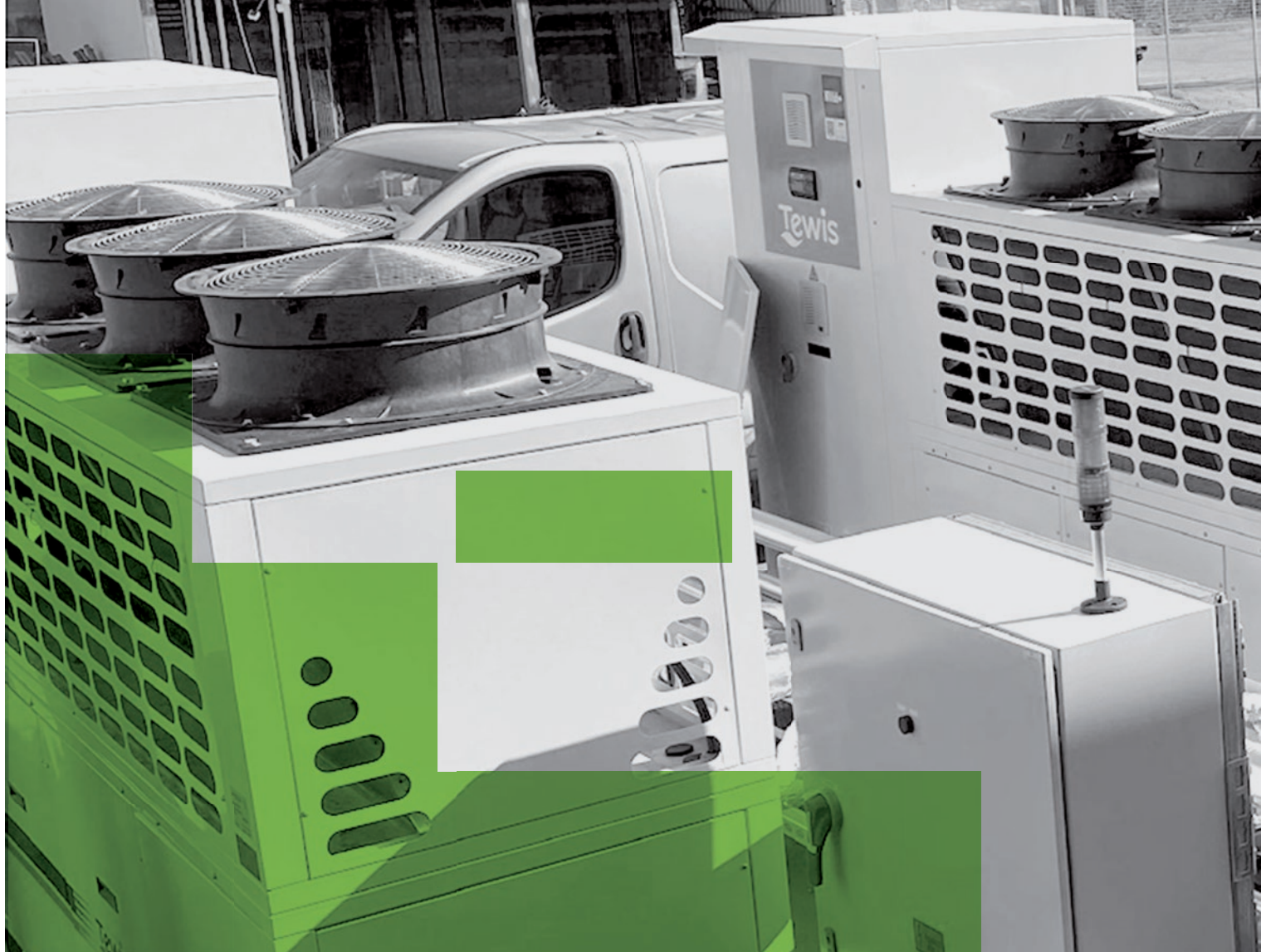


# Tewis

a member of **DAIKIN** group

# CO<sub>2</sub>

configurable solutions





At Tewis, we design and manufacture commercial and industrial refrigeration solutions. Innovative, configurable, efficient and sustainable solutions with a wide temperature range and a broad range of optional features, adapted to the needs of each customer and their environment, reducing investment, energy consumption and maintenance costs compared with other systems, and allowing our customers to grow without having to worry about refrigeration.

# NOVA 58+

NEW COMPACT CENTRAL FOR APPLICATIONS UP TO 800 M2 WITH INTEGRATED GAS COOLER

- > **Applications:** from 300 to 800 m<sup>2</sup>
- > **Cooling Powers:** 14 to 53 kW (MT) / 0 to 8 kW (LT)



## New compact unit, perfect for small supermarkets (up to 800 m<sup>2</sup>)

NV58+ is a compact and modular unit with a wide range of equipment with CO<sub>2</sub> in transcritical cycle (Ps. 130 bar.) surfaces up to 800 m<sup>2</sup> in one or two temperatures, working as a booster. A very complete solution that incorporates up to 3 compressors, with axial and radial versions (it can be installed outdoor) and does not require an emergency unit.

### Applications

- Convenience stores.
- Supermarkets.
- Specialised food stores.
- Fast food outlets.
- Refrigerated rooms.
- Horeca channel.

### Benefits

- 1] Compact and 360° accessible unit with included Gas Cooler.
- 2] Suitable for indoor and outdoor installations.
- 3] Plug & Play, all-in-one.
- 4] Perfect for small machine rooms.
- 5] High acoustic insulation ensuring significantly less external noise.
- 6] No emergency unit required.
- 7] Up to 3 compressors.
- 8] Heat recovery and internal liquid subcooler available as options.



## NV58+ & TMS 10" [ Tewis Machine Supervisor ]

NV58+ can incorporate our TMS, a supervision and remote management system for central units with a touch screen interface.

### Highlighted Features

- Real-time monitoring.
- Configuration of central unit parameters.
- Alarm management.
- Data logger.
- Historical data reporting.
- Synoptic visualization.
- Internal web server.
- Integration with third parties.



NV58+ is a very compact solution with high efficiency and power, capable of handling applications up to 800 m<sup>2</sup> without the need for an emergency unit and with design pressures of 130 bar.



### > Standard Equipment

- Double V-shaped coil.
- 3 air outlet configurations (radial Gas Cooler).
- Oil separator accumulator.
- 90-litre liquid receiver.
- Integrated electrical panel.
- Two electronic refrigerant level sensors (high and low).
- K65 copper pipes and connections.
- Variable frequency drive for the first MT compressor.
- Variable frequency drive for the the LT compressor.

### > Available Options

- Axial Version or Radial Version.
- RHX for heat recovery.
- IHX internal liquid subcooler.
- Double HP and FG valves.
- Safety valve manifold.
- 10" TMS touch screen (Tewis Machine Supervisor).

### > Available Drivers

- Tewis
- Danfoss
- Carel

### > Design Pressures

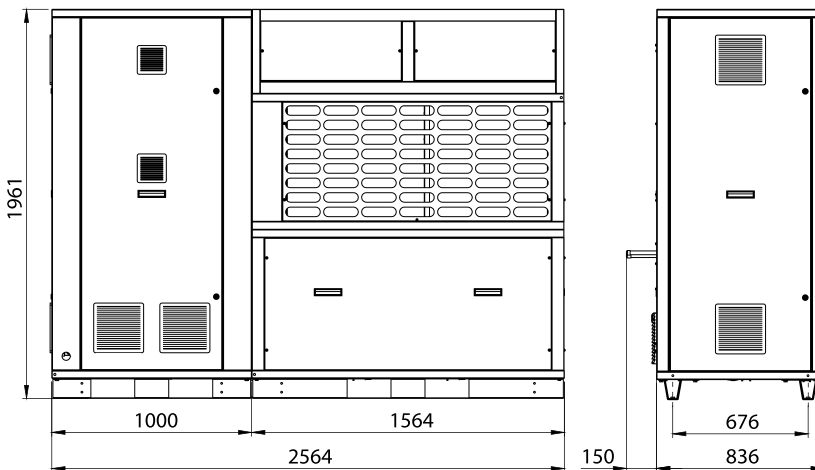
- MP (MT Suction): 52 bar.
- LP (LT Suction): 30 bar.
- IP (Receiver and Liquid Line): 90 bar.
- HP (Discharge): 130 bar.

### > Compressors

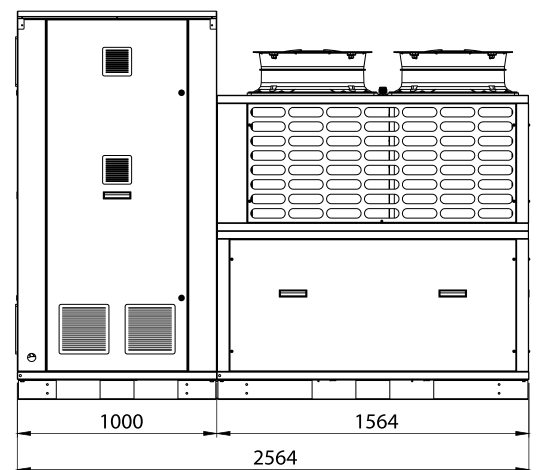
- Bitzer



## DIMENSIONS NV58+ RADIAL VERSION



## DIMENSIONS NV58+ AXIAL VERSION



MODELS & DATA									
BASE CODE	APPLICATION	MT CAP. KW*	LT CAP. KW*	MT CAP. KW*	LT CAP. KW*	MT CAP. KW*	LT CAP. KW*	MT COMPRESSORS	LT COMPRESSORS
GNV58_923YQX	MT	51	—	49	—	45	—	1x 4MTE-10Z (INV) + 2x 4KTE-10Z	—
GNV58_882YQX	MT	38	—	36	—	32	—	1x 4MTE-10Z (INV) + 1x 4KTE-10Z	—
GNV58_202ZQX	MT	32	—	30	—	24	—	1x 4MTE-10Z (INV) + 1x 4MTE-10Z	—
TNV58_203ZQX	MT+LT	18	4	17	4	14	4	1x 2KTE-7Z (INV) + 1x 2KTE-7Z	1x 2MSL-07Z (INV)
TNV58_879YQX	MT+LT	30	7	28	7	24	7	1x 4MTE-10Z (INV) + 1x 4KTE-10Z	1x 2KSL-1Z (INV)
TNV58_220ZQX	MT+LT	35	8	32	8	28	8	1x 4JTE-15Z (INV) + 1x 4HTE-20K	1x 2JSL-2Z (INV)

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +32°C

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +35°C

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +40°C

# NOVA 66+

COMPACT CO2 CENTRAL UNIT THAT WORKS AS A BOOSTER

- > **Applications:** from 700 to 1200 m<sup>2</sup>
- > **Cooling Powers:** 22 to 70 kW (MT) / 0 to 15 kW (LT)



## Up to 1200 m<sup>2</sup> at one or two temperatures with an all-in-one compact solution

The NV66+ is a compact and modular unit with a wide range of equipment with CO2 in transcritical cycle (Ps. 130 bar.) surfaces of up to 1200 m<sup>2</sup> in one or two temperatures, **working as a booster**. A very complete solution that incorporates **up to 5 compressors**, with axial and radial versions (it can be installed outdoor) and **does not require an emergency unit**.

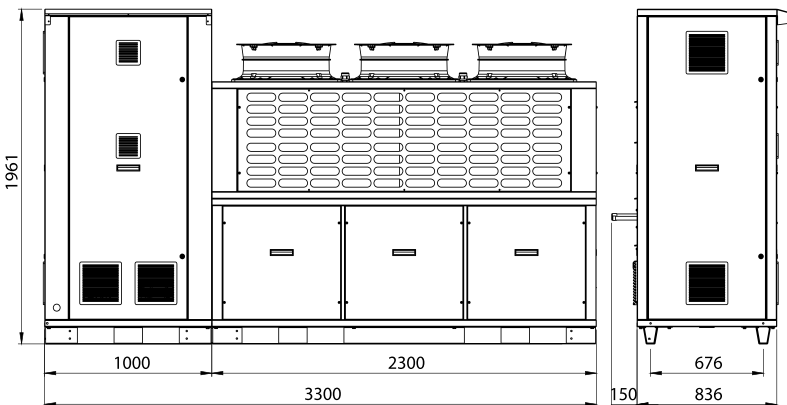
### Applications

- Small supermarkets.
- Medium supermarkets.
- Cold storage warehouses.
- Small industry.

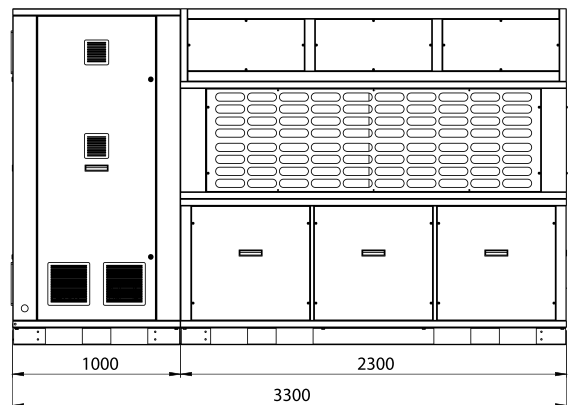
### Benefits

- 1] Compact Plug & Play unit with included Gas Cooler and fully 360° accessible design.
- 2] Suitable for indoor and outdoor installations, with excellent acoustic insulation and very low noise levels.
- 3] Incorporates up to 5 compressors.
- 4] With a design pressure of 130 bar, it can operate at high temperatures, and receiver pressure at 90 bar, making the emergency unit unnecessary.

NV 66+ axial version



NV 66+ radial version



NV66+ is a highly complete unit that functions as a transcritical booster with an integrated gas cooler. It is a perfect solution for supermarkets and small industries, offering sustainability and efficiency.



### > Standard Equipment

- Double V-shaped coil.
- 3 air outlet configurations.
- Oil separator accumulator.
- 90-litre liquid receiver.
- Integrated electrical panel.
- Two electronic refrigerant level sensors (high and low).
- K65 copper pipes and connections.
- Variable frequency drive for the first MT compressor.
- Variable frequency drive for the the LT compressor.

### > Available Drivers

- Tewis
- Danfoss
- Carel

### > Available Options

- Axial Version or Radial Version.
- RHX for heat recovery.
- IHX internal liquid subcooler.
- Double HP and FG valves.
- Safety valve manifold.
- 10" TMS touch screen (Tewis Machine Supervisor)
- Safety relief valve manifold.

### > Design Pressures

- MP (MT Suction): 52 bar.
- LP (LT Suction): 30 bar.
- IP (Receiver and Liquid Line): 90 bar.
- HP (Discharge): 130 bar.

### > Compressors

- Bitzer



MODELS & DATA									
BASE CODE	APPLICATION	MT CAP. KW*	LT CAP. KW*	MT CAP. KW*	LT CAP. KW*	MT CAP. KW*	LT CAP. KW*	MT COMPRESSORS	LT COMPRESSORS
GNV66_148ZQX	MT	77	—	71	—	66	—	1x 4JTE-15Z (INV) + 2x 4HTE-20Z	—
GNV66_020ZQX	MT	67	—	64	—	52	—	1x 4JTE-15Z (INV) + 2x 4JTE-15Z	—
GNV66_230ZQX	MT	59	—	54	—	47	—	1x 4MTE-10Z (INV) + 2x 4JTE-15Z	—
TNV66_228ZQX	MT+LT	21	14	19	14	15	14	1x 4PTE-7K (INV) + 2x 4MTE-10Z	1x 2JSL-2Z (INV) + 1x 2JSL-2Z
TNV66_540YQX	MT+LT	44	11	39	11	33	11	1x 4MTE-10Z (INV) + 2x 4JTE-15Z	1x 2KSL-1Z (INV) + 1x 2KSL-1Z
TNV66_139ZQX	MT+LT	49	14	46	14	35	14	1x 4JTE-15Z (INV) + 2x 4JTE-15Z	1x 2JSL-2Z (INV) + 1x 2JSL-2Z
TNV66_224ZQX	MT+LT	51	14	48	14	42	14	1x 4JTE-15Z (INV) + 2x 4HTE-20Z	1x 2JSL-2Z (INV) + 1x 2JSL-2Z
TNV66_229ZQX	MT+LT	47	18	44	18	38	18	1x 4JTE-15Z (INV) + 2x 4HTE-20Z	1x 2HSL-3Z (INV) + 1x 2HSL-3Z

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +32 °C

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +35°C

■ Tev MT: -8°C/Tev LT: -32°C/TSGC: +40°C

# SMART RACK

THE COMPACT CENTRAL UNIT THAT BEST ADAPTS TO RETAIL REQUIREMENTS

- > **Applications:** from 400 to 1500 m<sup>2</sup>
- > **Cooling Powers:** 40 to 130 kW (MT) / 0 to 28 kW (LT)



## Up to 1500 m<sup>2</sup> with a fully optimised unit based on retail needs

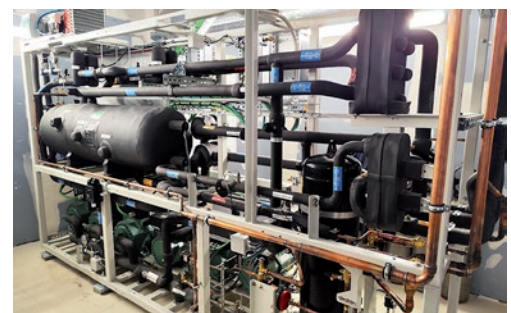
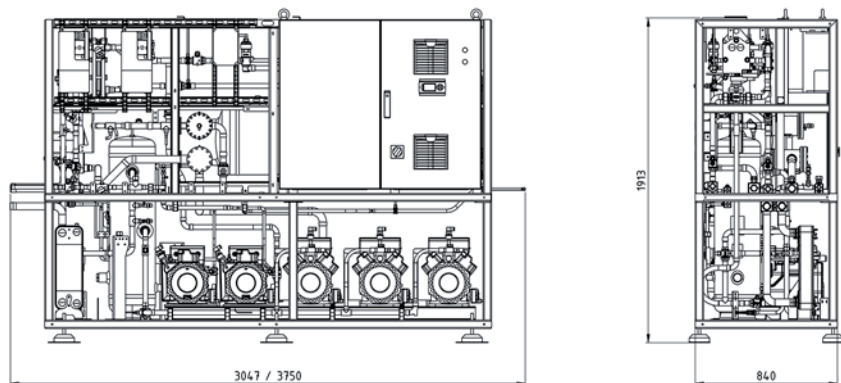
The Tewis **compact CO2 unit that best meets retail needs**. Its optimized design and dimensions make installation and maintenance easier. Its features ensure high performance and **significant energy savings for medium-sized supermarkets and small industrial applications**.

### Applications

- Food retail (convenience stores).
- Supermarkets
- Cold storage. Warehouses.
- Work rooms.
- Industrial applications

### Benefits

- 1] Ensures profitability and energy savings.
- 2] Ease of commissioning and maintenance, with full accessibility.
- 3] Up to 6 compressors.
- 4] K65 copper connections.
- 5] Compact design: 84 cm wide.
- 6] Remote control (accessible from anywhere).
- 7] Wide range of available options, adapting to most retail needs.
- 8] 160 litre liquid receiver



Our Smart Rack can be enclosed and soundproofed for outdoor use, expanding the options available in the sales area.



> **Standard Equipment**

- Tubular chassis
- Oil separator accumulator
- 160 litre liquid receiver
- Up to 6 compressors
- Frequency inverter for the first MT compressor (standard in LT).
- All connections in K65 copper
- Electronic refrigerant level sensors
- Manometers

> **Available Options**

- Parallel compressor
- RHX (Heat Recovery Exchanger)
- IHX (Internal Heat Exchanger)
- Dual bypass valves for gas and high pressure
- Emergency unit (supplied)
- Desuperheater (supplied)
- 10" touchscreen TMS (Tewis Machine Supervisor)
- Gas cooler bypass
- Enclosure

> **Compressors**

- Bitzer Standard.
- Bitzer Eco-Line.
- Bitzer ME –High standstill pressures–.

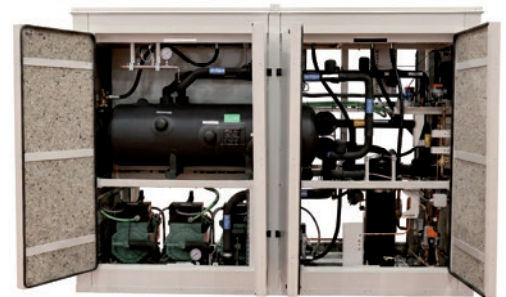


> **Design Pressures**

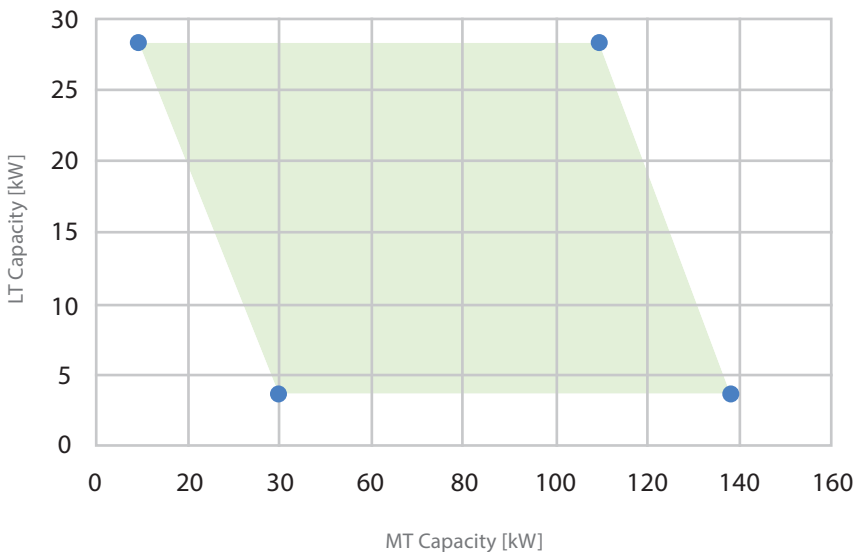
- MP (MT Suction): 52 bar
- LP (LT Suction): 30 bar
- IP (Receiver and Liquid Line): 60 bar
- HP (Discharge): 130 bar

> **Available Drivers**

- Tewis
- Danfoss
- Carel
- Wurm.

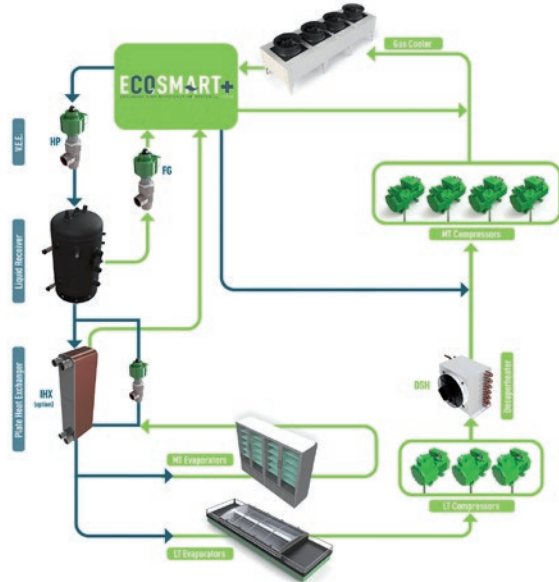
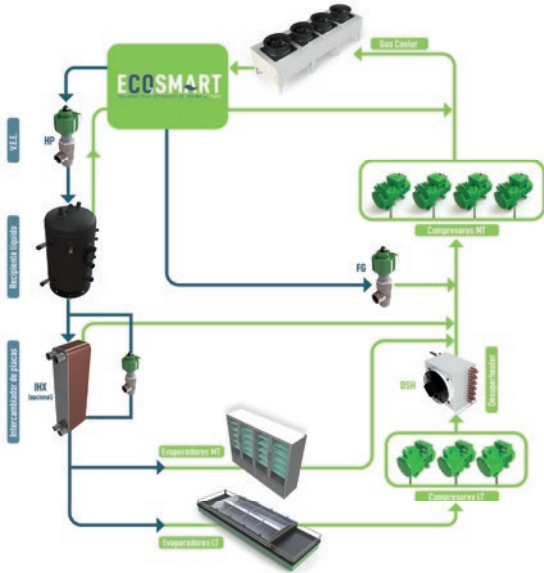


\* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsge +35°C.



With its compact, user-friendly design of just 84 cm in width and full equipment, Smart Rack is the most complete choice for new-build and retrofit supermarkets.

ECO2 is an exclusive Tewis system that multiplies the efficiency of our CO2 racks and helps to reduce the annual energy costs associated with refrigeration. An in-house development, with standard components, which has attracted the interest of major specialist media outlets as well as leading food retail chains, with energy savings of up to 35%.



## ECO2SMART

EXCLUSIVE HIGH EFFICIENCY CO<sub>2</sub> SYSTEM by TEWIS

**ECO2SMART** is a mechanical subcooling system for our compressor rack that multiplies efficiency under very high ambient temperatures and reduces the energy consumption costs associated with refrigeration using only CO<sub>2</sub>. **No adiabatic systems or additional investments are required to guarantee performance.**

## ECO2SMART+

low superheat

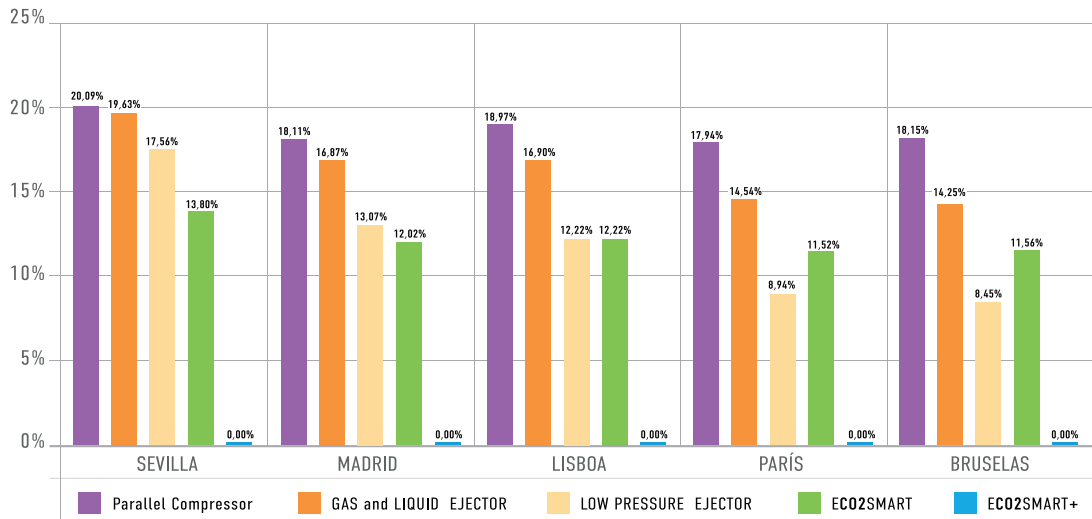
**ECO2SMART+** is the evolution of our ECO2 system, enabling operation with ultra-low superheat in both MT and LT service, increasing evaporation temperatures up to -3 °C. This results in additional energy savings and optimisation of the installations of approximately 2–3% for each degree increased.

### > PAYBACK

Our ECO2 system is the perfect balance between efficiency and investment, with a very simple system (CO<sub>2</sub> + standard components), with a payback of less than 2 years.

In addition, it is compatible with the most widely recognised electronic control brands, such as Danfoss, Carel, Eliwell and

% Increase in energy consumption of other systems compared with ECO2SMART and ECO2SMART+



# 1 Works more hours in energy saving mode

ECO2SMART starts working as a mechanical subcooling system at an ambient temperature of 10°C, which is lower than other market solutions (which typically start at 25°C). This way, ECO2SMART optimises the refrigeration production operation for longer periods than any other system. In other words, it saves energy for more hours each year.

# 2 Efficient even with extreme temperatures

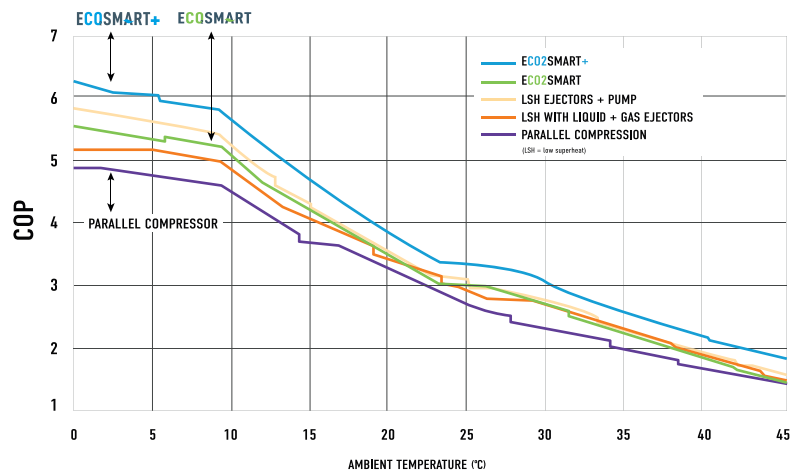
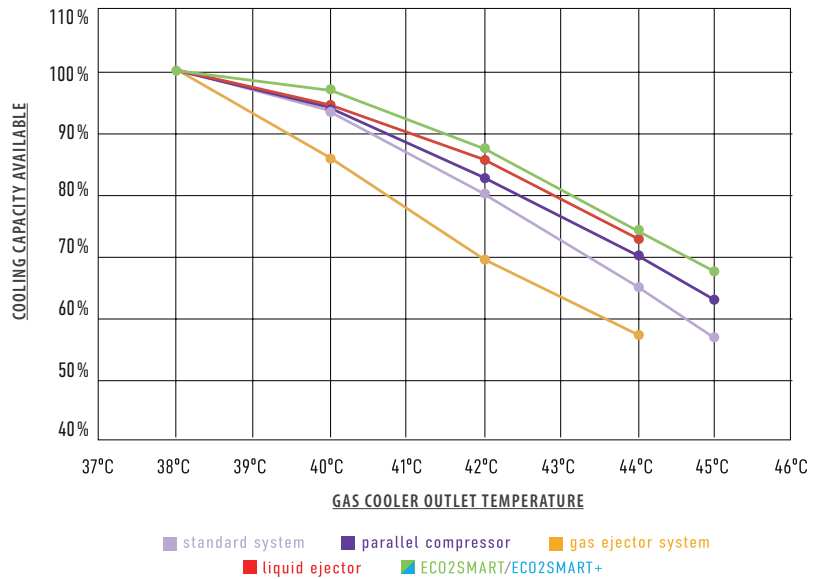
In high temperature situations or peaks, ECO2SMART loses less power than any other system, maintaining its efficiency by using only CO2. This eliminates the need for investment in additional components and avoids wasting water for subcooling (= Minimal footprint).

# 3 Best COP in the market at high temperatures

ECO2SMART improves the COP at elevated temperatures by more than 15% over parallel compression and by more than 30% over standard systems.

To achieve this, ECO2SMART optimises the suction pressure and efficiency of the additional compressors based on the outlet temperature of the cooler gas, improving the working pressure and overall plant efficiency.

AVAILABLE COOLING CAPACITY AT TEMPERATURES ABOVE DESIGN CONDITIONS



Rack capacity: [240kw MT/40 Kw BT] . Resource: University Jaume I

1] Additional subcooling is applied before the high-pressure (HP) valve.

2] Minimises the Flash-Gas generated in the receiver.

3] Increase in evaporation temperature.

4] Reduction in the compression ratio of the medium-temperature (MT) compressors.

5] Lower compressor energy consumption.

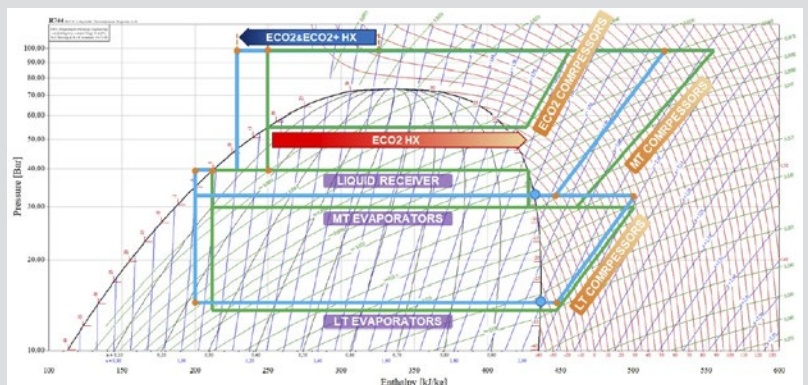
6] Lower mechanical stress.

7] Superheat (SH) is controlled for the medium- and low-temperature compressors (MT/LT).

## How they work



more about ECO2



# Mini SMART DUPLEX

NEW BOOSTER CENTRAL UNIT WITH HIGH POWER AND COMPACT DIMENSIONS

- > **Applications:** from 1000 to 2000 m<sup>2</sup>
- > **Cooling Powers:** 50 to 150 kW (MT) / 0 to 35 kW (LT)



## Mini-SD: Efficiency, power, and compact dimensions for applications up to 2000 m<sup>2</sup>

Our Mini SMART DUPLEX is a CO<sub>2</sub> booster unit with **6 compressors and an integrated ECO2SMART system**. A unit that combines 3 key factors highly demanded by the market: **EFFICIENCY + POWER + ADAPTATION to MACHINE ROOMS** (its compact dimensions and low height make it suitable for small machine rooms). The Mini-SD delivers outstanding performance with 3 compressors for medium temperature (MT), 2 compressors for low temperature (LT), and **1 ECO2SMART compressor**.

### Applications

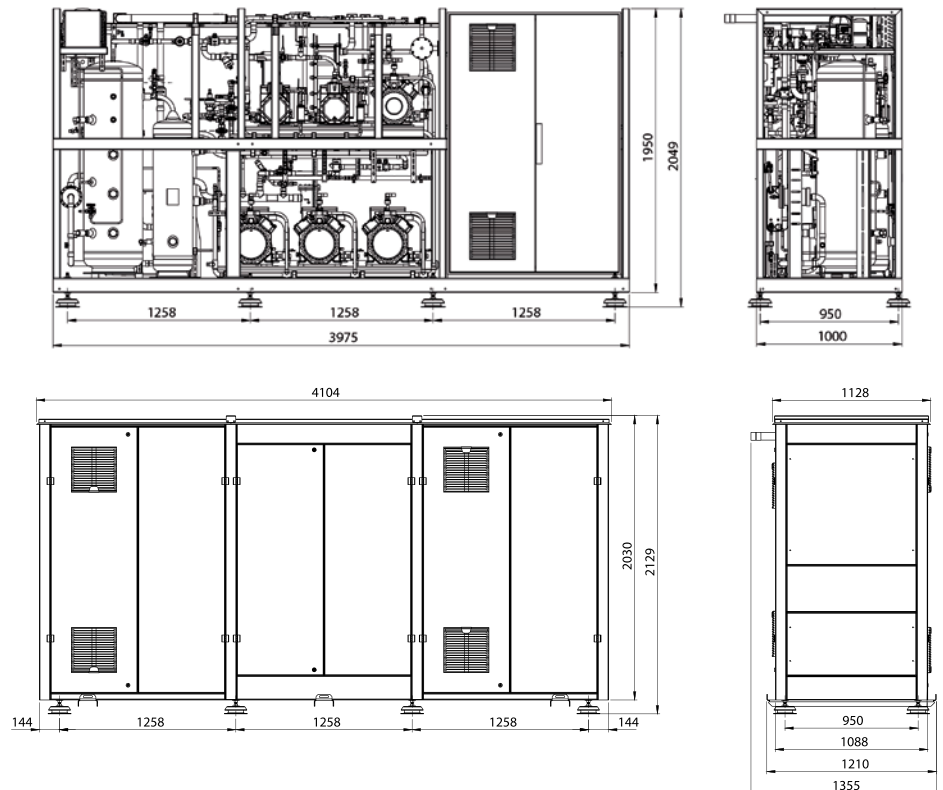
- Food Retail
- Supermarkets
- Cold stores
- Industrial Applications

Our ECO2SMART system is included as standard in the Mini-SD central unit, generating large savings in energy consumption.



### Benefits

- 1] High-power unit with a compact design and limited height for small spaces or rooms.
- 2] Maximum power with 6 compressors.
- 3] Large-capacity vertical receiver (up to 1x150 l).
- 4] Total length of less than 4 m.
- 5] Remote control (accessible from anywhere).
- 6] Option for 1 RHX for tap water or heating.
- 7] Can be enclosed and soundproofed.
- 8] Incorporates ECO2SMART as standard.



### > Standard Equipment

- ECO2SMART Compressor
- Tubular chassis
- Oil separator accumulator
- Vertical liquid receiver (1x150 l)
- 6 compressors
- Frequency inverter for the first MT compressor, first LT compressor, and ECO2SMART compressor.
- Electronic refrigerant level sensors.
- All connections made of copper.
- Manometers.

### > Compressors

- Bitzer

### > Available Options

- RHX (Heat Recovery Exchanger)
- Gas cooler bypass
- IHX (Internal Heat Exchanger)
- Double gas and high-pressure bypass valves
- Onboard emergency unit
- 10" touch screen (TMS) (Tewis Machine Supervisor)
- Option for ECOLINE+ compressors (permanent magnet motors – LSPM).
- Enclosed and soundproofed

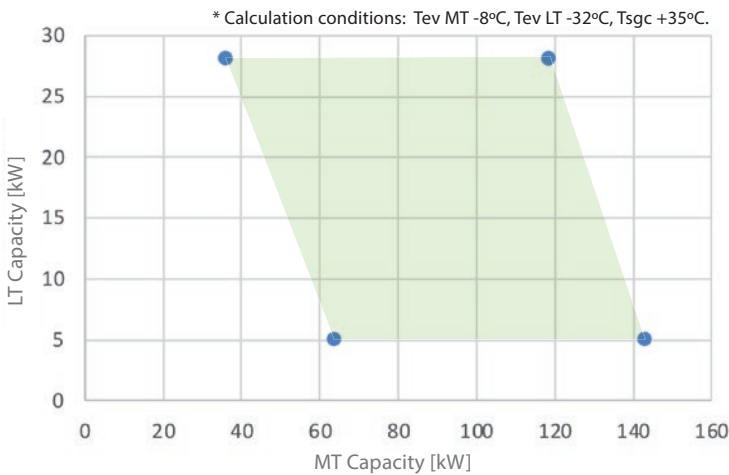
### > Design Pressures

- MP (MT Suction): 52 bar.
- LP (LT Suction): 30 bar.
- IP (Receiver and Liquid Line): 60 bar.
- ECO2 (ECO2SMART Suction): 80 bar.
- HP (Discharge): 120 bar.

### > Available Drivers

- Tewis
- Danfoss
- Carel
- Wurm

Its compact and space-saving design allows for a highly efficient and powerful unit in machine rooms with very tight spaces, which is perfect for retrofitting supermarkets.



With just 1 m depth, all components are easily accessible, significantly reducing installation and maintenance times and costs. Additionally, the Mini Smart Duplex can be fully enclosed and soundproofed for outdoor installation.



# SMART DUPLEX

THE HIGHEST CO2 CAPACITIES FOR COMMERCIAL REFRIGERATION

- > **Applications:** from 1500 to 3000 m<sup>2</sup>
- > **Cooling Powers:** 80 to 250 kW (MT) / 0 to 75 kW (LT)



## The compact central unit with the highest power and performance in CO2

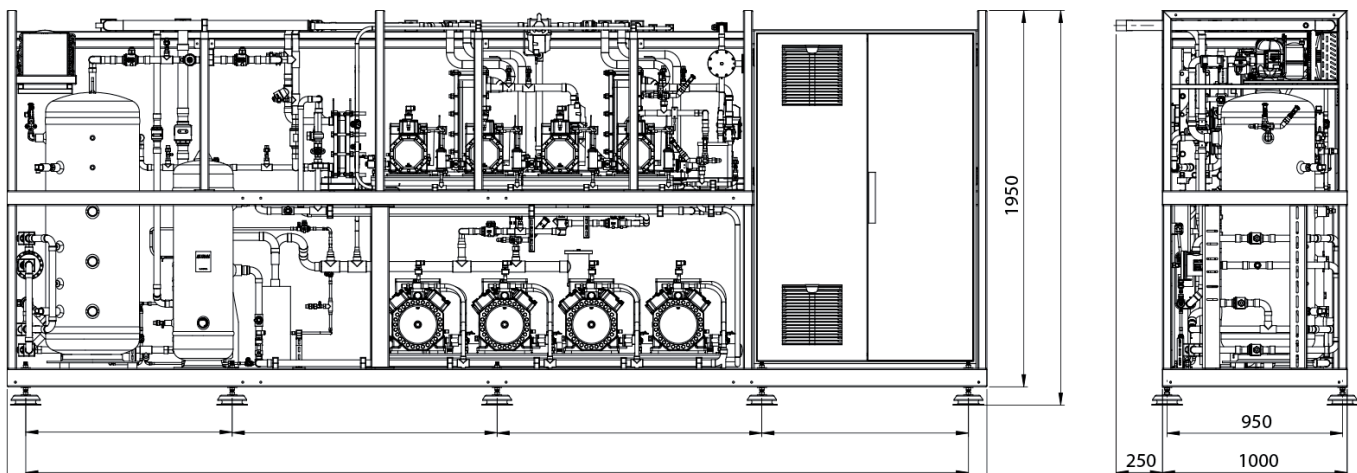
Transcritical CO2 booster machines for commercial refrigeration and small industry. Additionally, the SMART DUPLEX units offer the highest capacities for the commercial CO2 refrigeration range, **up to 250 kW**, a perfect solution with maximum performance for medium temperature (MT) and low temperature (LT). They can include **up to 9 compressors** and, optionally, 3 heat exchangers and 2 parallel compressors.

### Applications

- Food retail (convenience stores).
- Supermarkets.
- Large supermarkets.
- Cold storage.
- Warehouses.
- Industrial applications

### Benefits

- 1] Compact and simple design that facilitates commissioning and maintenance.
- 2] Can incorporate up to 9 compressors.
- 3] Large-capacity vertical receiver (up to 2x250 l).
- 4] Available options.
- 5] Remote, axial, or radial gas cooler.
- 6] Option for 2 RHXs, one for ACS and one for climate control.
- 7] Can be enclosed and soundproofed.
- 8] Can incorporate ECO2SMART.
- 9] Remote control (accessible from anywhere).



4680 / 5304 / 6008 \*

\* SMART DUPLEX can have 3 types of chassis sizes.

With only 1 meter of depth, its design allows easy access to all the machine's components, reducing installation and maintenance times and costs.

A unit that is extremely easy to install, offering great capacity, performance, and a compact size for small spaces.



### > Standard Equipment

- Tubular chassis
- Oil separator accumulator
- Vertical liquid receiver (up to 2x250 l.)
- Up to 9 compressors
- Variable frequency drive for the first MT compressor and for the LT
- All connections in K65 copper
- Electronic refrigerant level sensors

### > Compressores

- Bitzer

### > Available Options

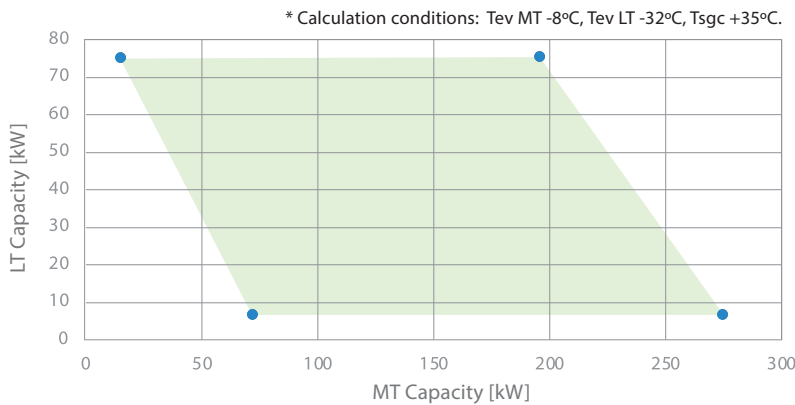
- Parallel compressor
- RHX (Heat Recovery Exchanger) up to 190 kW
- IHX (Internal Heat Exchanger)
- Dual bypass valves for gas and high pressure
- Onboard emergency unit
- 10" touchscreen (TMS)
- Fully enclosed and soundproofed
- 2 RHXs, one for tap water and another for heating
- Available with ECOLINE+ compressors (permanent magnet motor – LSPM)
- ECO2Smart compressor.

### > Design Pressures

- MP (MT Suction): 52 bar.
- LP (LT Suction): 30 bar.
- IP (Receiver and Liquid Line): 60 bar.
- HP (Discharge): 120 bar

### > Available Drivers

- Tewis
- Danfoss
- Carel
- Wurm.



With just 1 m depth, its design allows easy access to all machine components, reducing installation and maintenance times and costs. Additionally, the Smart Duplex can be fully enclosed and soundproofed for outdoor installation.



# INDUSTRIAL

SEMI-INDUSTRIAL AND INDUSTRIAL SOLUTIONS,  
CUSTOMISED, EFFICIENT, AND SUSTAINABLE

- > **SEMI-INDUSTRIAL = CO2 CUSTOM LIGHT:** tailored customisation + reduced delivery times + up to 12 compressors
- > **INDUSTRIAL = CUSTOMISABLE:** extensive customisation (according to needs) + CO2 / NH3 / GLYCOL



With structures and features designed to meet most specific capacity and space requirements with very low consumption.



## Applications

- Industrial processes
- Logistics platforms
- Cold rooms
- Freezing tunnel
- Cold storage
- Hypermarkets

## Solutions

- 1] Subcritical CO2 condensing units with glycol
- 2] Transcritical CO2 racks
- 3] Transcritical CO2 booster units
- 4] Transcritical CO2 LT units for cold rooms or freezing tunnels
- 5] CO2 chillers for refrigeration
- 6] NH3 chillers

## > semi-industrial CUSTOM LIGHT CO2

CUSTOM LIGHT CO2 is a new family of industrial machines with a **highly standardised and modular design and manufacturing system**, allowing us to customise their features to meet the specific needs of each project.

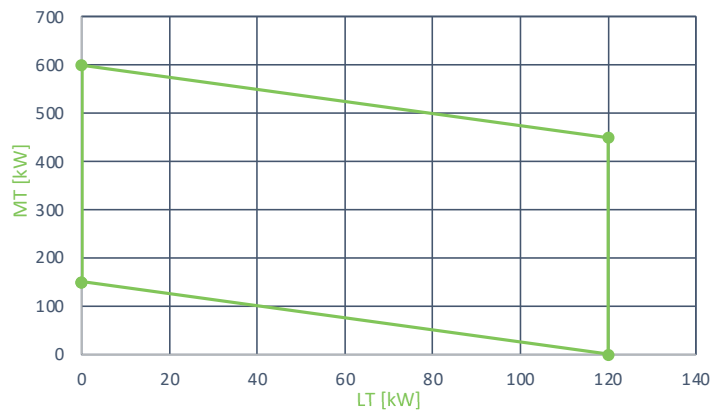
- Tailored customisation.
- Reduced delivery times (estimated 12 weeks)
- Power ranges: 150 kW to 600 kW total.
- Limited number of compressors:  
6 in MT / 3 in CP / 4 in LT

## Applications

- 1] Pure LT
- 2] LT + MT Booster
- 3] Pure MT

## Configurations

- BOOSTER
- Parallel Compressor
- ECO2SMART



## > General Features

- Reduced investment and maintenance costs,
- Natural refrigerant, non-corrosive, no risk to electrical and electronic equipment.
- Lighter weights, reducing costs in structures and construction.
- Compact, plug & play design, with the possibility of indoor and outdoor placement to reduce installation times.
- Specific design for freezing tunnel and blast chiller applications (study of medium, peak, and transient power).
- Direct expansion to improve efficiency.
- Can incorporate ECO2SMART.
- HIGH COP
- Excellent ratio between cooling capacity and footprint (kW / m2)
- Heat recovery at various temperature levels:  
55°C / 65°C, 40°C / 45°C, 25°C / 30°C
- High reliability in suction / evaporation conditions through predictive algorithms.
- Compressors and frequency drives in the lead compressor of each suction line.
- Connection to separator with CO2 pumps\*.
- Separate chiller modules for cooling process water or brine. Improved overall efficiency by optimising the design point.
- Hot gas defrost as an option



## > industrial CO2

The range of Tewis CO2 industrial SOLUTIONS consists of a series of powerful machines, with Transcritical or Subcritical CO2, chassis and features that are highly customisable, designed to meet the different requirements of particularly demanding installations.

### | Main Benefits |

- 1]** Integrated electrical panel. Easy to use, with a touch screen and exclusive control software.
- 2]** Optional parallel compressor that significantly increases system efficiency.
- 3]** Low, medium, and high-temperature compressors.
- 4]** Economiser: allows the MT compressor to transfer part of its power to the LT compressors, thereby increasing system efficiency.
- 5]** Proportional modulation: a variable frequency drive in each compressor group adapts its operation to the specific needs of the moment.
- 6]** Can incorporate ECO2SMART.





# ALARMS & CONTROL

CONTROLS FOR COLD ROOMS WITH ELECTRONIC EXPANSION VALVE



## Maximum control. Maximum safety

Maximum control for food safety, fewer product losses and longer service life for your refrigeration equipment.

At Tewis, we offer 360° retail solutions, from the refrigeration units or packs themselves to cold rooms with evaporators.

In addition, we work with the leading brands in the sector in alarm systems and electronic expansion valve control systems, with panel and metrological elements. Efficiency and control guaranteed through a single point of contact.

ESSENTIAL KIT FOR THE INSTALLER	
Person Trapped Alarm with Battery	ACCEVAEIACB
Person Trapped Alarm without Battery	ACCEVAEIASB
CO2 Leak Alarm (detector must be purchased separately)	ACCEVAEIFFR (alarm), LKDN67IR00BSK (detector)
Door Open Alarm	ACCEVAEIPUA
Service Sticker	ETISERVIEVAEIB
Customer Sticker	ETICUSTOMEVAEI
Impact Protector (Big Enclosure)	PROCAJAEI220
Relay (mandatory if used with ZEAS)	ACCEVAEICVE
Transformer	ACCVAEITF35

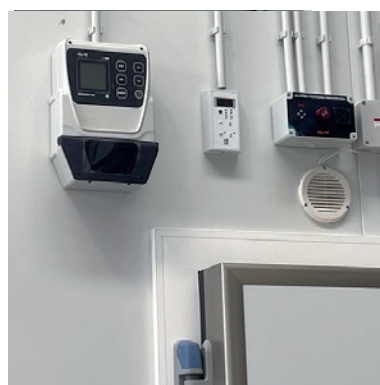


**Alarm PE SB**  
Alarm  
Person locked in  
No Battery



**Alarm PE CB**  
Alarm  
Person locked in  
With Battery

Pulse Models	Description	Prices
<b>CKZEVAEI0MCS</b>	KDX EVA 0-MC Small with RTX 600 and without protections*	<b>to be consulted</b>
<b>CKZEVAEI220S</b>	KDX EVA 2-20 Small with RTX 600 and with protections + accessories (Circuit Breaker Switch II 6A and Circuit Breaker Heaters II - 20A)	<b>to be consulted</b>
<b>CKZEVAEI0MCB</b>	KDX EVA 0-MC Big with RTX 600 and without protections* + accessories	<b>to be consulted</b>
<b>CKZEVAEI320B</b>	KDX EVA 3-20 Big with RTX 600 and with protections + accessories (Circuit Breaker Switch II 6A and Circuit Breaker Heaters III - 20A)	<b>to be consulted</b>
Steps Models	Description	Prices
<b>CAJAPASOSPROT</b>	Valve control box with RTX 600 V/S and without protections* + accessories	<b>to be consulted</b>
<b>CAJAPASOSPROT</b>	Valve control box with RTX 600 V/S and with protections + accessories (Circuit Breaker Switch to be defined and Circuit Breaker Heaters to be defined)	<b>to be consulted</b>



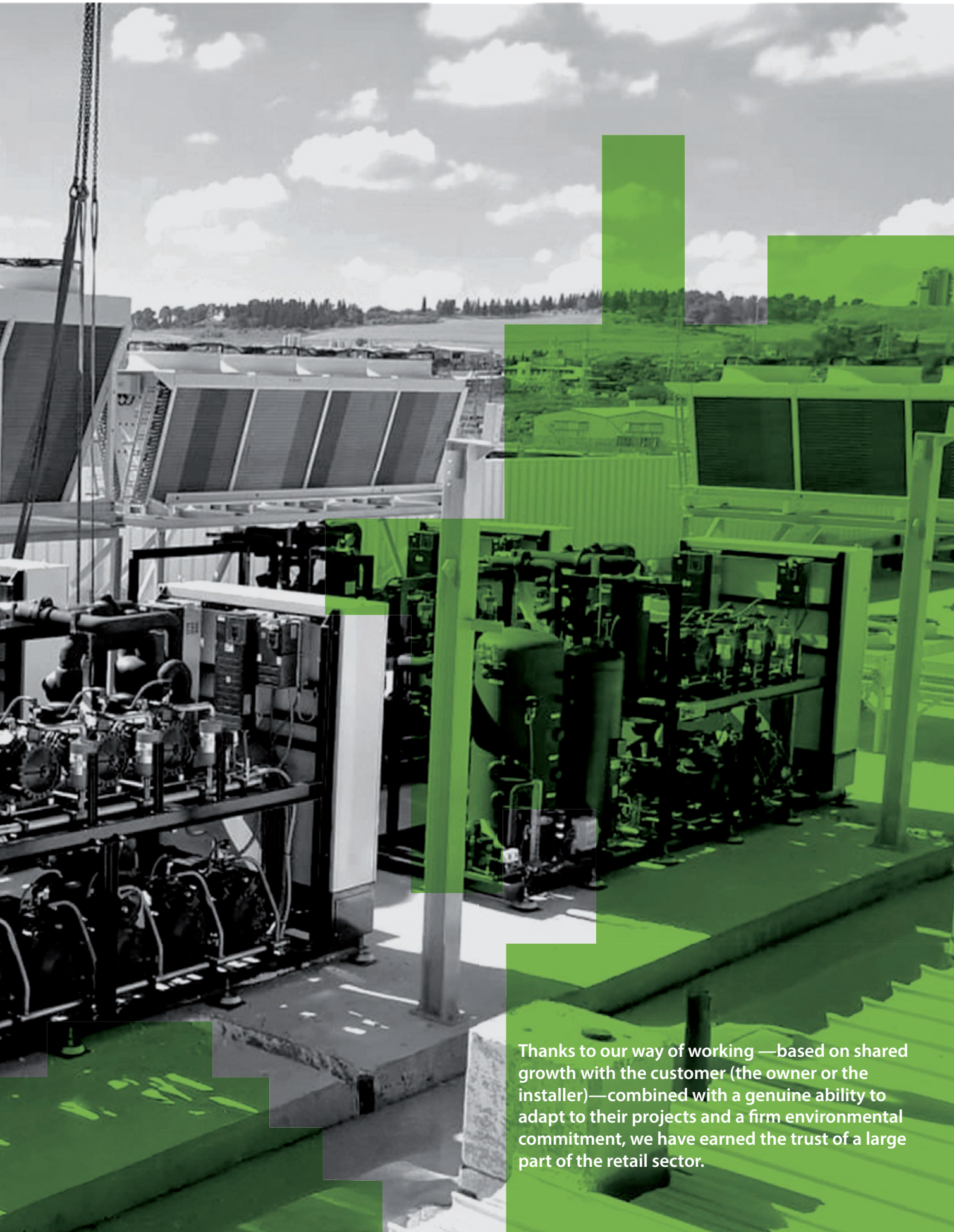


# Tewis

a member of **DAIKIN** group



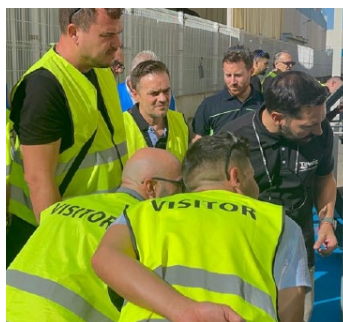
every project is special,  
every project requires a  
unique solution

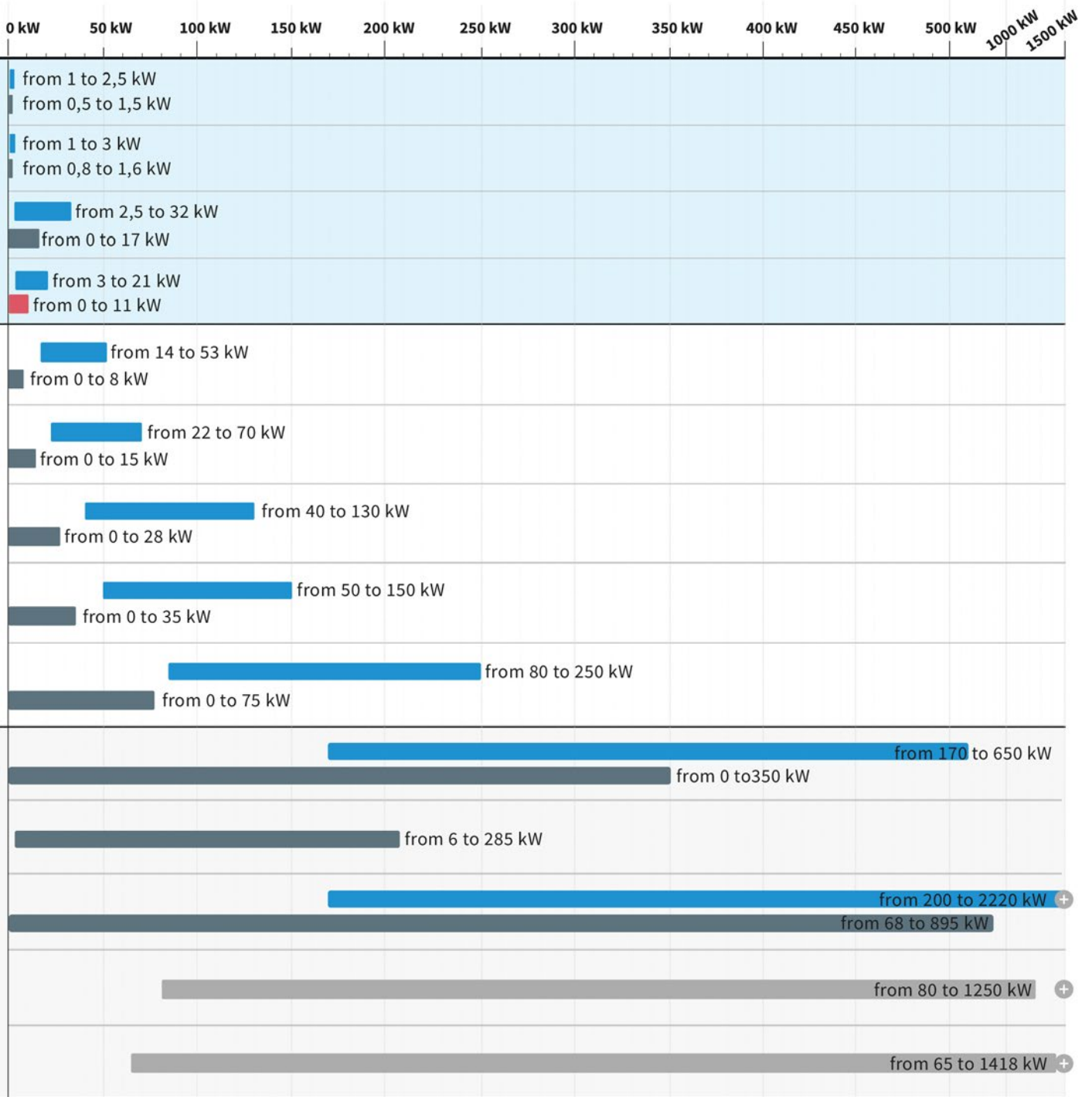


Thanks to our way of working —based on shared growth with the customer (the owner or the installer)—combined with a genuine ability to adapt to their projects and a firm environmental commitment, we have earned the trust of a large part of the retail sector.

	MODEL		REFRIGERATION	SUPERFACE	
STANDARD SOLUTIONS	LMS	■	MT / LT	4/30 m <sup>3</sup>	
	LMC	■	MT / LT	4/30 m <sup>3</sup>	
	CO2 ZEAS	■	MT / LT	< 399 < 600 m <sup>2</sup>	
	CO2 CONVENI-PACK	■	MT	200 < 300 m <sup>2</sup>	
CONFIGURABLE SOLUTIONS	NOVA 58+	■	MT / BOOSTER	300 < 800 m <sup>2</sup>	
	NV66+	■	MT / BOOSTER	700 < 1200 m <sup>2</sup>	
	SMART RACK	■	MT / BOOSTER	600 < 1500 m <sup>2</sup>	
	MINI - SD	■	MT / BOOSTER	1000 < 2000 m <sup>2</sup>	
	SMART DUPLEX	■	MT / BOOSTER	1500 < 3000 m <sup>2</sup>	
INDUSTRIAL SOLUTIONS	CO <sub>2</sub> INDUSTRIAL	■	MT / BOOSTER	2500 < 4999 m <sup>2</sup>	
	CUO / UNIT / RACK	■	LT SUBCRITICAL	5000 < 10000 m <sup>2</sup>	
	CN UNIT	■	INDUSTRIAL	INDUSTRIAL	
	CN CHILLER	■	INDUSTRIAL	INDUSTRIAL	
	CN RACK	■	INDUSTRIAL	INDUSTRIAL	

■ R290 ■ CO<sub>2</sub> ■ NH<sub>3</sub> ■ AC





■ MT ■ LT



# Tewis

a member of **DAIKIN** group



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