Life Is On

eliwell by Schneider Electric



DOMINO refrigeration solution

Efficient and sustainable food retail applications

Up to 25% efficiency

less investments, less space,
less maintenance

eliwell.com/domino



DOMINO refrigeration solution

Efficiency and sustainability for food retail applications

Increase and optimize your refrigerated system performances with an innovative control solution suitable for food retail applications using natural or synthetic refrigerants.

Sustainability is our responsibility.

The major challenges for food retail business & refrigeration industry.

La ricerca di **soluzioni sempre più sostenibili dal punto di vista ambientale,** con una particolare attenzione ai temi dell'efficienza e del risparmio energetico, **è una sfida che coinvolge tutti i player che operano nel settore food retail.** Eliwell è protagonista di questa transizione verso una tecnologia sostenibile, consapevole che l'**uso corretto e responsabile delle risorse** è essenziale per la tutela dell'ambiente e dell'uomo.



FOOD WASTE

30% of food is wasted between «farm and fork», of which 10% in supermarkets.

This is not sustainable and driving more request for monitoring systems to **track food quality** and enable continuous, optimal operation with remote maintenance.

SUSTAINABLE DEVELOPMENT GOALS

1 | 2 ZERO HUNGER | 3 | 4 | 5 | 6 | 7 | 8

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.



INNOVATION

High-efficiency refrigeration equipment is more and more required by supermarket chains.

Eco-labelling European directive is driving new equipment design, including load modulation and specific actuators like expansion valves.

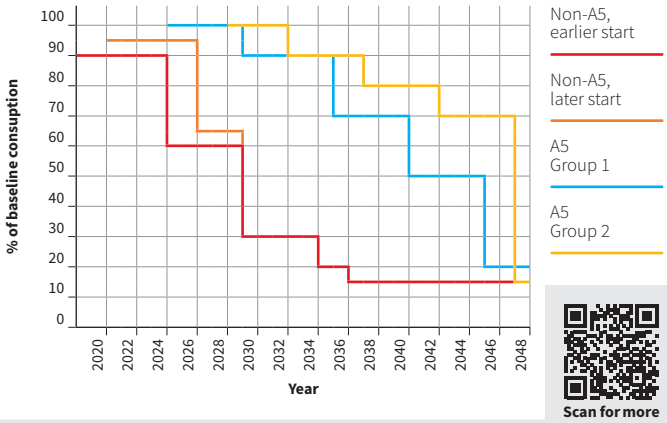


GLOBAL WARMING

Traditional HFCs are highly impacting the environment: regulations in the majority of countries are progressively driving an **HFC phase down**, according to the Montreal protocol.

Moving to **low-GWP and natural refrigerants** it's an even strong change for refrigeration industry.

Kigali Amendment
HFC Phase-Down Schedules



Scan for more

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 11 12

13 CLIMATE ACTION

14 15 16 17

At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership.

Scopri di più

DOMINO control solution for refrigeration



1. KDX
2. EWCM 9000 PRO
3. RTX 600 DOMINO ZERO
4. KDEPlus
5. Valvola EEV

DOMINO is the Eliwell solution answering to the sustainability and efficiency needs of all the stakeholders around food retail sector: refrigeration installers, maintenance companies, refrigeration equipment manufacturers seeking for **efficient systems with easy setup and maintenance** over time, applying well-known practices.

DOMINO is a system **suitable for natural and synthetic refrigerants**. It combines both evaporation and **compression to optimize refrigeration performances**, by working at the highest possible suction pressure.

HOW IT WORKS

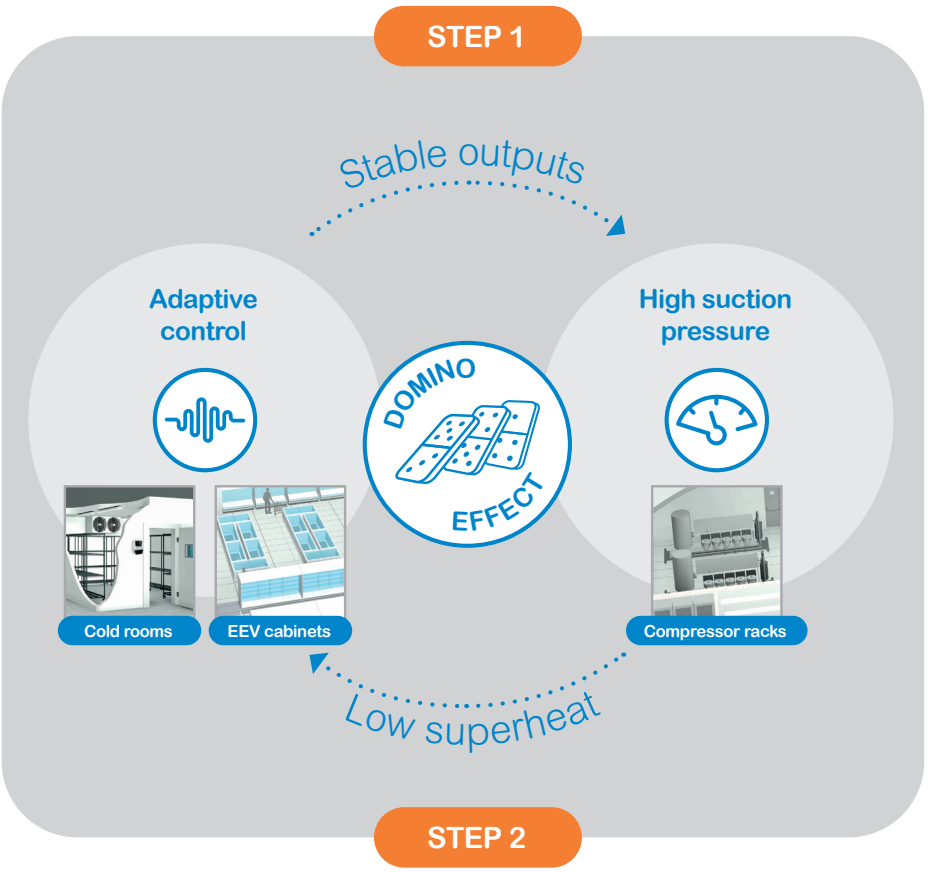
The innovative technology behind the RTX DOMINO ZERO controller triggers an interconnected two-step process:

STEP 1

RTX DOMINO Zero employs an innovative regulation to keep the superheat of refrigeration equipment stable at the optimal value. Continuous modulation of the electronic expansion valve (EEV) in the equipment maintains a smooth refrigerant flow in the refrigerated circuit of the installation.

STEP 2

Thanks to the smooth refrigerant flow and the control strategy of the EWCM 9000 PRO compressor rack controller, the suction pressure is kept stable at the highest value that is optimal for the system. This allows the reduction of compressor on/off cycles, keeping stable the balance of the whole system.



"**DOMINO effect**" summarizes the virtuous circle that optimizes the whole system: the control of the compressor rack benefits from the stability of superheat control, while the control of refrigerated counters and cold rooms benefits from the stability of suction pressure.

This solution **works in any climatic zone with standard compressor rack design** like CO_2 booster and parallel compression, CO_2 cascade, direct expansion and liquid pumped systems.

DOMINO offers the **same efficiency levels with all type of EEVs**, even with the most simple and reliable pulse-type valves.

The system provides an **optimal food preservation** temperature, stable superheat and suction pressure with continuous and soft regulation, **improving system health and efficiency**.

Models

DOMINO is the control solution able to **optimize and improve the efficiency of your refrigeration system**.
Few part numbers allow to cover a large variety of different food retail applications with natural and new refrigerants: from refrigerated warehouses to CO_2 transcritical supermarkets.
Based on the most consolidate and reliable technologies available in the market, with DOMINO control solution you will have benefit in **maintenance**, **service** and even in **spare parts availability**.

IDENTIFY YOUR TURN-KEY CONTROL SOLUTION BASED ON APPLICATION...

Solutions for CO_2 transcritical supermarkets

Compressor rack with refrigerated cabinets and cold rooms		**RTX DOMINO ZERO** **+ EWCM 9000 PRO DOMINO**
Condensing unit with refrigerated cabinets and cold rooms		**RTX DOMINO ZERO** **+ CO_2 Condensing Unit**

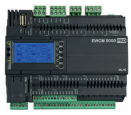
Solutions for low GWP supermarkets

Compressor rack with refrigerated cabinets and cold rooms		**RTX DOMINO ZERO** **+ EWCM 9000 PRO DOMINO** **New Refrigerants**

Solution for cold rooms and refrigerated warehouses

		**KDX KIT with RTX 600 DOMINO ZERO** **+ EWCM 9000 PRO -HF**
		**KDX KIT with RTX 600 DOMINO ZERO** **+ EWCM 9000 EO (NH3)** for glycol water applications

...OR COMPOSE YOUR CONTROL SOLUTION

	CO_2 transcritical applications	Low GWP refrigerant applications
Compressor racks	**EWCM 9000 PRO DOMINO**  • compact and complete solution • for booster and parallel compression	**EWCM 9000 EO**  solution compatible for CO_2 cascade, ammonia and traditional systems using HFOs
	EWCM 9000 PRO -HF  • programmable solution • open baseline and support for HVAC-R integrated solutions • flexible for industrial applications	**EWCM 400D PRO**  compact solution for small racks with inverter and digital compressor
Remote cabinets	 **RTX 600 DOMINO ZERO** one controller for supermarket cabinets and cold rooms for pulse EEVs and a wide selection of stepper EEVs	
Cold rooms	 **KDX KIT with RTX 600 DOMINO ZERO** dedicated control panels for commercial & industrial cold rooms one box to integrate refrigerant leak detection & humidity control from small cold rooms with pulse EEV to large warehouses with stepper EEV	

CHOOSE YOUR ELECTRONIC EXPANSION VALVE

	CO_2 transcritical applications	Low GWP refrigerant applications
Supermarket cabinets & cold rooms	 **Eliwell PXVE series** Pulse EEVS for CO_2	 **Eliwell PXVN series** Pulse EEVs for HFC / HFO
Cold rooms in small CO_2 transcritical CU applications	Compatible with the major brands of stepper unipolar EEVs for CO_2 transcritical application up to 120bar MOP. Refer to RTX 600 DOMINO ZERO documentation to learn more.	
Small cold rooms	Compatible with the major brands of stepper unipolar and bipolar EEV's for CO_2, HFC, HFO applications. Refer to RTX 600 DOMINO ZERO documentation to learn more.	
Compressor racks	Compatible with the major brands of stepper bipolar EEVs for CO_2 transcritical applications up to 120bar MOP. Refer to EVEVD driver documentation.	Compatible with the major brands of stepper bipolar EEVs for cascade applications. Refer to V910 / XVD EEV drives documentation.
Monitoring systems and accessories	**TelevisGo** monitoring system **LKD** Leak detector	

Eliwell
Digital Experience

INNOVATION HUB



ACCESS HERE

Experience digitization through a showroom that replicates real-world scenarios. Re-imagine the Food Retail business with solutions from Eliwell and Schneider Electric.

DIGITAL ACADEMY



ACCESS HERE

Your digital space to find out, choose and make the most effective use of Eliwell's products and solutions. Just a click to increase your competencies and your business.

REGISTER NOW



UPDATE CENTER

The easiest way to know what's new in the Eliwell world: documentation, software, available training resources and real application. Set your preferences and stay always up to date!

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Since 1980, Eliwell has been developing and manufacturing control systems, solutions and services for both commercial and industrial refrigeration units. It embodies the success story of an Italian company that has brought Made in Italy technological developments to the world for over 40 years. In 2014, it became part of the Schneider Electric group and remains its centre of excellence for HVACR applications. Together with Schneider Electric, Eliwell is now the global partner providing efficient and sustainable solutions and services for food storage and distribution systems, and for integrated resource control of environmental comfort installations.