



Widest low-GWP portfolio

of cold room and
refrigerated locker
solutions

ENGINEERING
TOMORROW

Danfoss

eBrochure | Online Grocery Solutions

Online Grocery Solutions

Online grocery is booming. Pick-up points and refrigerated lockers make shopping easy for busy, on-the-go consumers—and are a profitable new business model for grocers. And while many grocers are well on their way with click-and-collect locations, the need for reliable, energy-efficient, and intelligent remote cold storage is only increasing.

Discover how we can help refrigerated locker and cold room manufacturers build safer, smarter, and greener systems with our leading portfolio of energy-efficient, sustainable solutions.

[> START HERE](#)

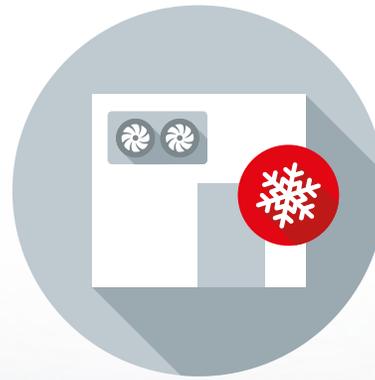
Your one-stop-shop

for click-and-collect cooling systems

Navigate through this e-brochure by **clicking on the different tabs and menu icons.**



New opportunities
for **click-and-
collect cooling**



Solutions for
**drive-up
cold rooms**



Solutions for
**refrigerated
lockers**



New opportunities
for **click-and-
collect cooling**



Solutions for
**pick-up point
cold rooms**



Solutions for
**refrigerated
lockers**

New opportunities for **click-and-collect cooling systems**

Grocery store owners are actively expanding their businesses with click-and-collect cooling systems—creating exciting new opportunities for refrigerated locker and cold room manufacturers.

Discover the widest portfolio of **click-and-collect cooling solutions**

We can help you build durable, A2L- and A3-ready click-and-collect cooling systems with a leading portfolio of products and solutions, application expertise, and the facilities to develop and test designs.

Our portfolio meets grocers and retailers' key requirements, such as:

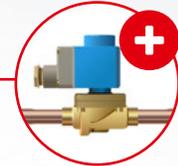
- Boosted energy efficiency
- Reduced CO₂ footprint
- Precise temperature control
- Remote temperature monitoring
- Alarms activating immediate response to irregularities
- Automatic HACCP records
- Reduced food loss and increased cost savings



Complete

- Precise room temperature control
- Switches off/on flow via a solenoid
- Several sensor types

- Simple wiring and programming
- Defrost management functions
- High safety with differential magnetothermic circuit breaker and alarms signaling
- Easy Modbus connection



Solenoid valve



Thermostatic expansion valve



Discharge valve



Thermostat



Electron controller

TEMPERATURE CONTROL

- Protects people
- Reduces food waste
- Saves time

- 24/7 real-time monitoring
- Alarms by phone
- Automatic HMI
- Remote temperature control

- Ultimate value for your retailer customers bringing asset performance, operational efficiency and energy efficiency
- Scalable services from standalone equipment to full store management
- Actionable insights to reduce downtime, and food waste



SOLUTIONS FOR CONDENSING UNITS OR PACKAGED SYSTEMS

- Improves system reliability enabling lower maintenance
- Used for hot gas defrost, pump-down and other applications
- Dual voltage coil provides options

- Indicates moisture in the refrigerant
- Shows if flashing occurs before the expansion valve
- Used for monitoring the liquid refrigerant condition
- Variable-speed scroll compressors for great efficiency and precision cooling



- Dedicated for variable speed compressors
- Oil return management options



- Reduce energy consumption
- Corrosion resistant compared with other condensers



Connectivity device



App-based solution



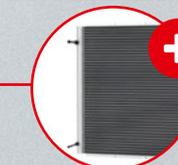
Cloud services



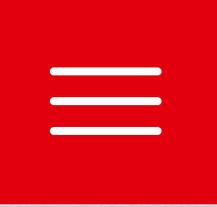
Refrigeration drive



Fan-speed controller



Heat exchanger

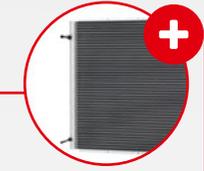


- From 0.2 to 26 kW for positive and negative temperature applications
- Fixed speed and variable speed technology for greater efficiency and precision cooling
- Compatible with A2L refrigerants (R1234yf, R454C, R455A) and R290 for smaller sizes



... kW
 ... ay or bare units to
 ... low GWP
 ... yf, R454C, R455A,
 ... cient, reliable, low

REDUCE REFRIGERANT CHARGE



Heat exchanger

- High reliability pressure safety switches
- Available as single- or dual-pressure switches
- Wide range of types and pressure ranges



- Controls the refrigerant flow to the evaporator
- Accurate superheat control improving energy efficiency of the system & ensuring compressor reliability
- Stainless steel hermetic valve



REDUCE COSTS

- 24/7 real-time temperature monitoring



... ations
 ... rds
 ... control

• Ultimate value for your retailer customers bringing asset operational energy efficiency
 ... es from
 ... uipment to full
 ... ment
 ... ights to reduce
 ... d food waste



- Helps maintain temperature
- Extended product life
- Modular design to more compact
- Built-in CANbus and various communication protocols
- For temperature control
- Temperature range -50°C to +50°C
- Complete installation



Connectivity device



App-based solution



Cloud services

PRECISION



Electronic controller



Temperature sensor

- Filters and retains moisture, debris and small foreign particles
- DML type ensures high and fast moisture retention



New opportunities for click-and-collect cooling



Solutions for pick-up point cold rooms



Solutions for refrigerated lockers

Seed filler

Ready to **learn more?**



Explore our complete portfolio in our Low-GWP eBook

[> Learn more](#)



Accelerate the refrigerant transition and turn down climate impact

[> Learn more](#)



Talk to our experts in the Danfoss Application Development centers

[> Learn more](#)



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