

Isotherm Smart Energy Control

A new leap forward in energy saving technology!



isotherm

You have suffered too often from electrical power shortages and want to extend your electrical autonomy significantly? Use the existing potential of your Isotherm fridge and take advantage of Isotherm Smart Energy Control.

Continuously optimized compressor efficiency

The sophisticated, processor-based Isotherm Smart Energy Control technology achieves significant savings in terms of power consumption by continuously scanning a set of key environmental factors to determine through advanced proprietary algorithms, the optimum compressor speed which maximizes the performance/ battery drain ratio (COP).

Smart storage and use of cold energy

Isotherm Smart Energy Control optimizes not only the efficiency of Danfoss/Secop compressor but also uses the cooling energy storage potential of food and drinks inside the fridge. A continuous monitoring of the cabinet air temperature through a dedicated air sensor allows an over-cooling while preventing any freezing of the food. The cooling energy is stored when a power surplus is available (engine on or connection to the grid) and used when the system runs exclusively on battery.

- Simple kit, quick and easy to install
- Upgradability on Isotherm fridges with Danfoss/ Secop compressors
- Up to 35% energy savings solely due to compressor efficiency gains
- Up to 50% energy savings with combined effect of cold energy surplus stored in food / drinks
- Boost mode for quick cooling
- Soft-start to avoid starting surges
- No need for eutectic plates

Isotherm Smart Energy Control Kit:



Processor-based module to be connected to the Danfoss/Secop compressor.



Potentiometer to activate the Isotherm Smart Energy Control mode.



A dedicated air sensor continuously measures the cabinet air temperature inside the fridge.

Note: The system must be configured via mechanical switches to match the specifications of the refrigeration cabinet (size, usage as a fridge/freezer). Please refer to our Isotherm Smart Energy Control application guidelines or consult your Isotherm refrigeration specialist to optimize your installation.

