

Case story | ICFD

ICFD defrost module from Danfoss test on a CO₂ plant at the European leader in cold logistics

680€

 of annual
savings per
evaporator

industrialrefrigeration.danfoss.com

One of the European leaders in cold logistics tested the ICFD defrost module from Danfoss on a CO₂ installation in his laboratory. As the European leader in the transport of refrigerated and fresh products, the customer is a regular user of Danfoss products for the Danfoss pressure control solution. Following a discussion with our technical team, he decided to move from ICF to ICFD – from a basic and standard product to a more advanced and revolutionary technology.



The ICFD defrost module for CO₂ and Ammonia is a compact liquid-based drain module packaged into our widely acknowledged ICF valve station. It is a formula that unites the well-known benefits of the Danfoss ICF technology with the most efficient defrost method known into one state-of-the-art defrost solution for industrial refrigeration applications.

Features and benefits

- Reduced energy consumption
- Improved defrost performance
- Improved job site efficiency
- Broad application range
- Easy system design

The challenge: customer wanted technology that allowed them to save energy

The customer wanted a technology that allowed them to save energy on hot gas defrost process. So they first placed ICFD on their ammonia systems with good results; then they volunteered for testing on their CO₂ ones.

The solution: a defrosting with many advantages

The product from Danfoss has therefore allowed defrosting with many advantages – a simplified scheme, more efficient, faster, less expensive. Defrosting was regulated by the ICFD on the CO₂ installation, by its liquid drainage which is recognized as the most energy efficient method.

The result : a big energy saving

In addition to energy efficiency, its installation was simple and fast thanks to the installation of the two-weld ICF with ICFD - a technology patented by Danfoss. A fast and efficient installation, for an energy-efficient product. From pressure control to liquid drain, the ICFD offers big savings in terms of energy, cost, and time. It also offers a considerable time saving thanks to the much lighter defrost flow and an annual savings of almost 700 euros per evaporator thanks to a lower energy consumption.

