

> **Thermostatic Expansion Valves**



> **Cartridge Pressure Switches**



> **Refrigeration Controllers**



> **Electronic Thermostats**



> **IoT enablers**



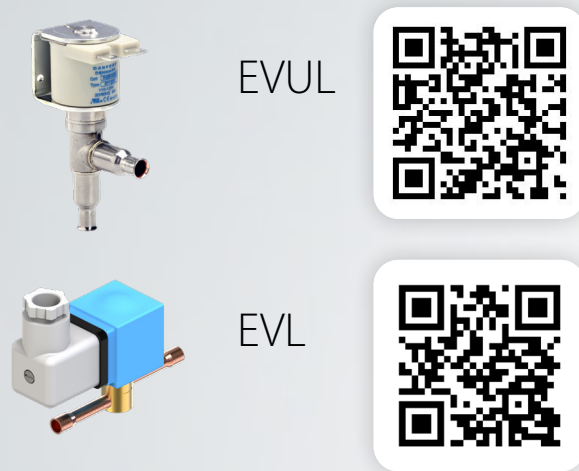
> **Filter Driers**



> **Temperature Sensors**



> **Solenoid Valves**



> **Reciprocating Compressors**



> **Optyma™ Light Commercial Condensing Units**



> **Microchannel Heat Exchangers**



# Energy-efficient refrigeration solutions

Maximize the performance of your commercial refrigeration system

Because no two applications are alike, Danfoss offers a full portfolio of lightweight, compact refrigeration solutions – compatible with R290 refrigerant – to meet your commercial refrigeration needs. From glass door merchandisers and commercial fridges and freezers to ice cream machines, we help you find an energy-efficient cooling solution that delivers accurate temperature control, high reliability, and a long service life.

Find our Products and Refrigerants Overview in Coolselector®

1. Go to Coolselector: [Coolselector \(danfoss.com\)](https://danfoss.com/coolselector)
2. Select Tools -> Products and Refrigerants Overview
3. Filter by Refrigerants and Product function





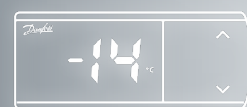
At Danfoss, we support the refrigerant transition by developing solutions that combine energy efficiency and natural refrigerants, like propane. We work with you to find safe and reliable solutions that not only match your refrigerant choice, but also improve the energy efficiency of your entire commercial refrigeration application.



### Thermostatic Expansion Valve (TXV)

By using a TXV instead of a capillary tube, you can:

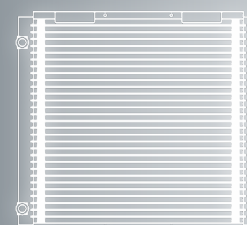
- reduce recovery and pull-down time
- reduce cooling cycles in real-world conditions
- adapt to varying cooling conditions



### Electronic (ERC) controller:

Using an ERC controller gives you more control over your installation's energy usage, enabling you to increase efficiency and cost savings. An ERC controller includes:

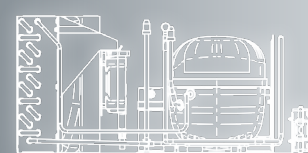
- adaptive defrost capabilities
- light and fan controls
- advanced ECO mode for energy-efficient operating conditions



### Microchannel heat exchanger (MCHE)

Using an MCHE instead of a conventional round fin and tube heat exchanger significantly improves efficiency. It gives you:

- improved heat rejection compared to same-size conventional heat exchanger
- increased efficiency
- reduced refrigerant charge, max. 70% as condenser



### Condensing units & compressors:

Our condensing units and compressors offer high efficiency, and optimal cooling performance and capacity. You get:

- higher efficiency with the variable speed fan motor
- combi filter drier receiver
- compact solution with optimal cooling performance and capacity

## > Propane features

- ✓ Reduced charge compared to A1 & A2L
- ✓ Natural refrigerant – GWP = 3
- ✓ For increased efficiency
- ✓ A3 classified – Flammable refrigerant

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.

For 24/7 support, we have developed intuitive **tools** and apps helping you to make the right product selection, troubleshoot your installation, or get training in natural refrigerants and the latest Danfoss Climate Solutions products.

### RefTools

The essential all-in-one mobile application for air conditioning and refrigeration technicians. Get seven powerful tools to support your refrigerant journey all from the palm of your hand.

> [Download it here](#)

### Coolselector®2

Significantly reduces complexity on the job by running unbiased calculations based on a set of operating conditions to determine the best components for your design.

> [Download it here](#)

### Danfoss Product Store

Your one-stop shop for everything product related – no matter where you are in the world or what area of the cooling industry you work in. Get quick access to essential information like product specs, code numbers, technical documentation, certifications, accessories and more.

> [Access](#)