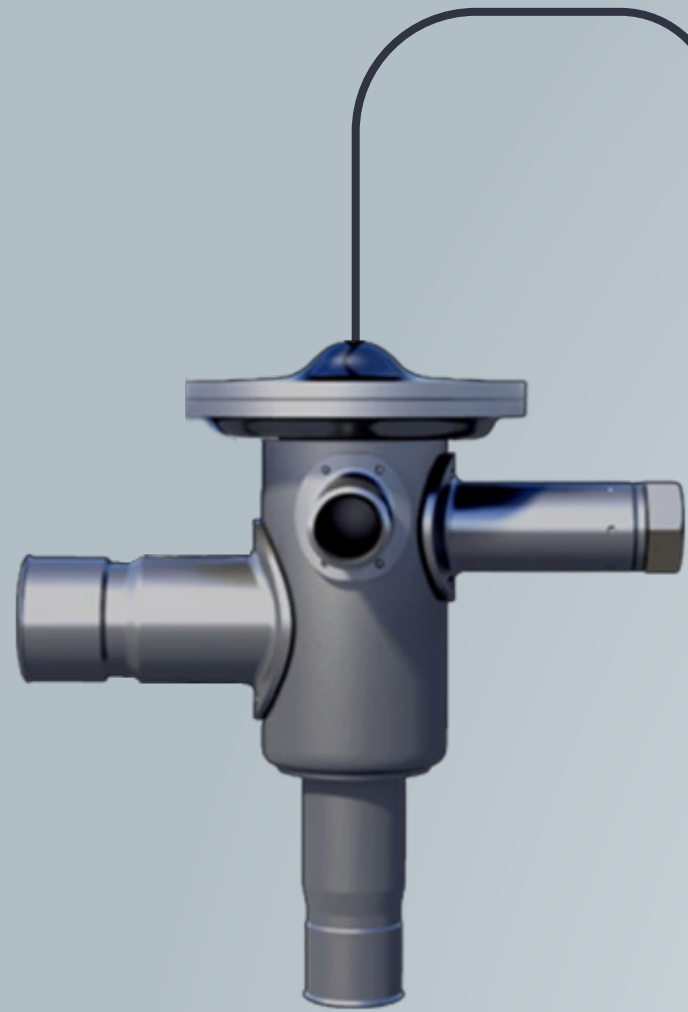


# Danfoss TU: A Passion for Expansion

Keeping the world cool since 1995

1995

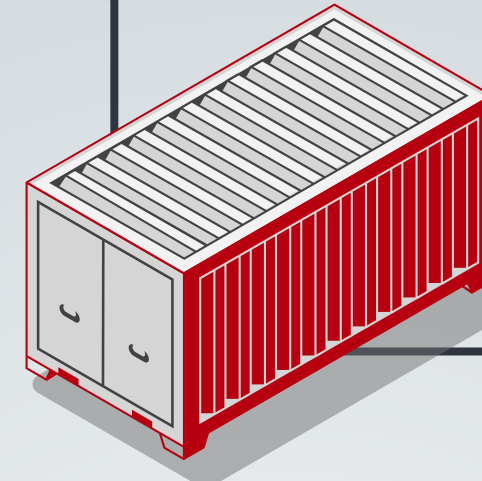
TU thermostatic expansion valve launched



- Full stainless-steel design** for unmatched durability
- Hermetic design** to reduce the risk of refrigerant leakage
- Wide-ranging capacity** in a single housing
- High maximum operating pressure** to handle a broad range of refrigerants
- Lightweight** making it ideal for compact systems
- Bi-metal connections** for quick and easy soldering and installation

1997

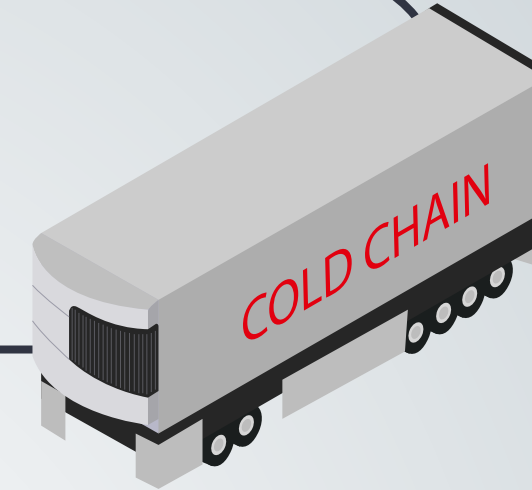
Increased reliability- and greater temperature accuracy in reefer container applications



- High corrosion resistance** due to its fully stainless-steel design
- Wide operating range** from -40°C to +10°C
- High reliability** due to a laser-welded power element

1999

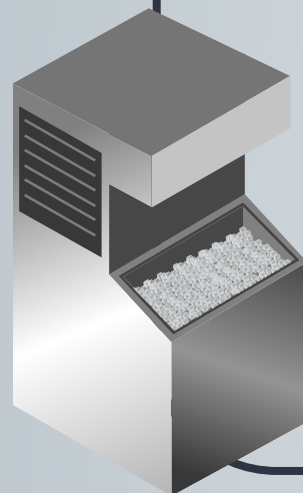
Increased reliability in refrigerated truck and trailer applications



- Small foot print** to minimize air flow impact
- Wide operating range** due to its specially developed charges
- High vibration and shock resistance** due to its stainless-steel capillary tube

2000

High quality ice production at scale



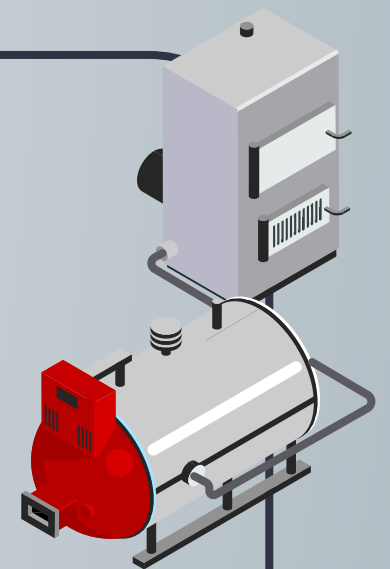
- High reliability** due to a hermetic design that helps avoid refrigerant leakage
- High corrosion resistance in wet environments** due to its fully stainless-steel body design
- Perfect fit** with a dedicated bulb charge (ice charge) and pre-set superheat
- Low energy consumption** with increased ice production

Larger compressed air drier operating envelop

2002

High performing design making extreme part-load operation possible

Unique and adaptable design to handle variable operating loads



- Fast system commissioning** in new store installations
- Greater energy efficiency** due to an optimized superheat setting and a dedicated bulb charge (F-charge)
- Fast and easy installation** with pre-set superheat



2014

Improved energy efficiency in supermarket applications

2019



More than 15 million units sold  
Relied on in countless applications around the world

2017



Reduced CO<sub>2</sub> footprint  
By using newly developed low-GWP bulb charge

2020



Engineering Tomorrow  
Still at the forefront of expansion valve design

