

Why use a **capillary tube** when you can ensure **peak performance** with a TXV?



Designed for
small refrigeration
applications with a

wide

temperature range

The Danfoss TD1 range of thermostatic expansion valves are designed for small commercial refrigeration applications. They have been proven to achieve energy savings and quicker pull-down time when compared to a capillary tube. Ensure your equipment runs at peak performance with a Danfoss TD1.

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Incorporating Danfoss' proven, robust, stainless steel capillary tube and sensing bulb design, the TD1 features the patented Danfoss bulb strap to provide maximum heat transfer to the bulb for a fast and precise valve reaction to temperature changes in the evaporator and to ensure a secure bulb installation.

The TD1 portfolio is UL approved and is available in a straight through configuration for refrigerants R-134a, R-404A, R-290, R-448A, R-449A, and R513a (additional refrigerants may be available upon request). The TD1 is suitable for many traditional applications, including those using capillary tubes, including: GDMs, Ice cream cabinets, small ice machines, refrigerated beverage dispensers, specialty cooling, transport refrigeration, reach-in fridges, small chillers, and small refrigeration units.

TD1/TDE1 Thermostatic Expansion Valves

R-134a ¹									
Model no.	Capacity* in TR MBP	Capacity* in TR LBP	Orifice size	Range	Inlet size (in.)	Outlet size (in.)	Equalization size (in.)	Superheat	Danfoss Code no.
TD1-0 R134a	⅛	⅜ ₅₀	0	N	⅜	½	—	Adjustable	068N7671
TD1-1 R134a	⅓	⅙ ₁₀	1						068N7672
TD1-2 R134a	½	⅓	2						068N7673
TD1-3 R134a	⅔	⅔	3						068N7674
TD1-4 R134a	¾	½	4						068N7675
TD1-5 R134a	1	½	5						068N7676
TDE1-3 R134a	½	⅓	3				¼		068N7690
TDE1-4 R134a	¾	½	4						068N7677
TDE1-5 R134a	1	½	5	068N7678					
R-404A									
Model no.	Capacity* TR in MBP	Capacity* in TR LBP	Orifice size	Range	Inlet size (in.)	Outlet size (in.)	Equalization size (in.)	Superheat	Danfoss Code no.
TD1-0 R404A	¼	⅙ ₁₀	0	N	⅜	½	—	Adjustable	068N7679
TD1-1 R404A	⅓	⅓	1						068N7680
TD1-2 R404A	½	⅔	2						068N7663
TD1-3 R404A	⅔	½	3						068N7664
TD1-4 R404A	1	¾	4						068N7665
TD1-5 R404A	1 ½	¾	5						068N7666
TDE1-3 R404A	⅔	½	3				¼		068N7667
TDE1-4 R404A	1	¾	4						068N7668
TDE1-5 R404A	1 ½	⅞	5	068N7669					
R-290									
Model no.	Capacity* in TR MBP	Capacity* in TR LBP	Orifice size	Range	Inlet size (in.)	Outlet size (in.)	Equalization size (in.)	Superheat	Danfoss Code no.
TD1-0 R290	¼	⅛	0	N	⅜	½	—	Adjustable	068N7681
TD1-1 R290	⅓	⅓	1						068N7682
TD1-2 R290	½	⅜	2						068N7683
TD1-3 R290	¾	½	3						068N7684
TD1-4 R290	1 ¼	¾	4						068N7685
TD1-5 R290	2	1	5						068N7686
TDE1-3 R290	¾	½	3				¼		068N7687
TDE1-4 R290	1 ¼	¾	4						068N7688
TDE1-5 R290	2	1	5	068N7689					

* The rated capacity is based on: Evaporating temp. Te = +41 °F MBP/−20 °F LBP / Condensing temp. Tc = +90 °F / Refrigerant temp. ahead of the value = +82 °F
Range N: −40—+50 °F evaporating temperature. For refrigerants not listed here, please contact your Danfoss representative.

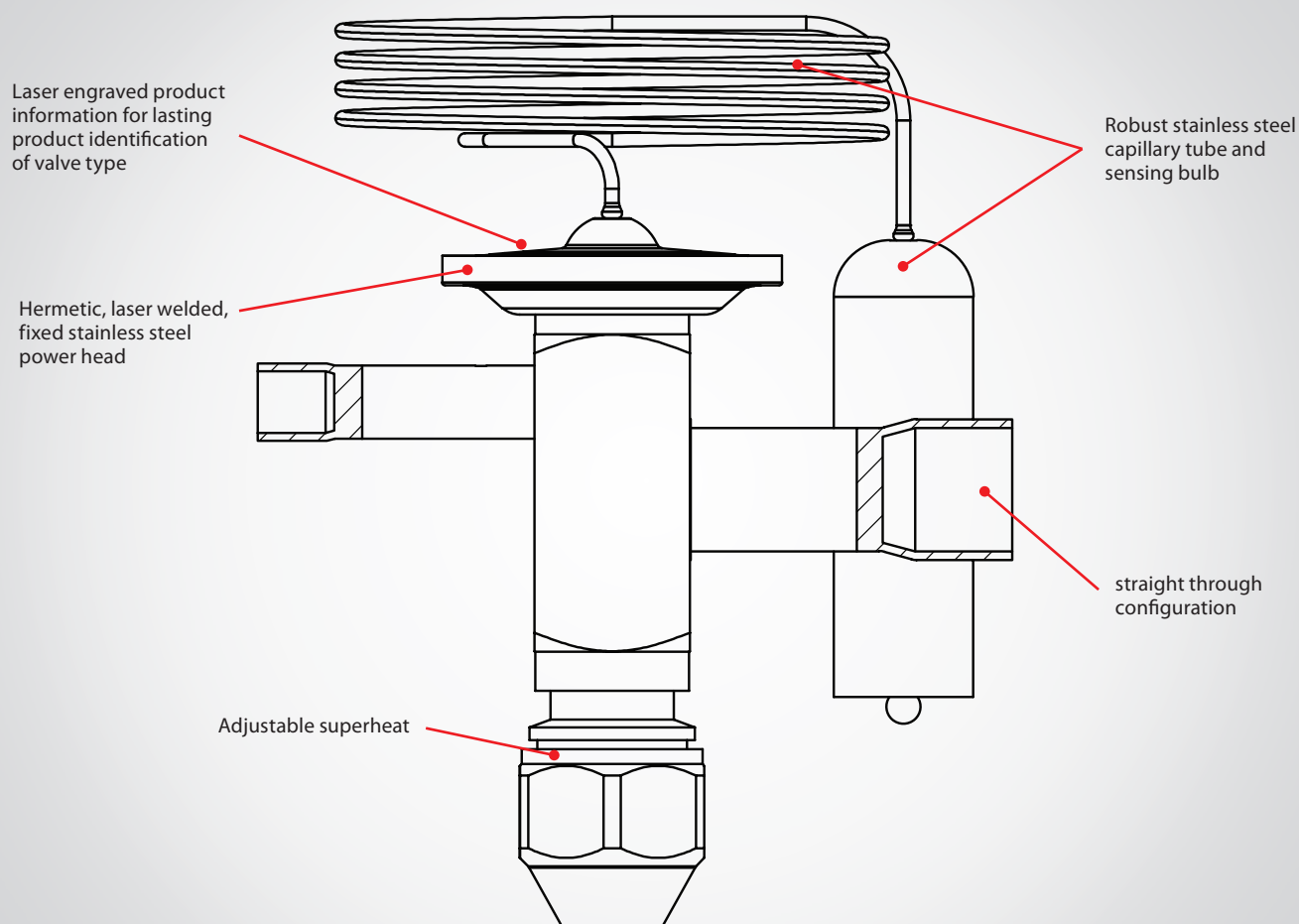
¹ Code Nos. also qualified for R-513a but capacities listed are for R-134a. See Coolsector*2 for exact capacities at your selected conditions.

R-448A/R-449A										
Model no.	Capacity* in TR MBP	Capacity* in TR LBP	Orifice size	Range	Inlet size (in.)	Outlet size (in.)	Equalization size (in.)	Superheat	Danfoss Code no.	
TD1-0 R448A/R449A	¼	⅛	0	N	⅜	½	—	Adjustable	068N7691	
TD1-1 R448A/R449A	⅓	⅕	1						068N7692	
TD1-2 R448A/R449A	⅝	⅓	2						068N7693	
TD1-3 R448A/R449A	¾	⅔	3						068N7694	
TD1-4 R448A/R449A	1 ¼	¾	4						068N7695	
TD1-5 R448A/R449A	2 ⅛	1 ⅙	5						068N7696	
TDE1-3 R448A/R449A	1	⅔	3				¼		068N7697	
TDE1-4 R448A/R449A	1 ¼	¾	4						068N7698	
TDE1-5 R448A/R449A	2 ⅛	1 ⅙	5						068N7699	

*The rated capacity is based on:
 Evaporating temp. Te = +41 °F MBP/−20 °F LBP
 Condensing temp. Tc = +90 °F
 Refrigerant temp. ahead of the valve = +82 °F
 Range N: −40–+50 °F

Spare Parts

Code no.	Description	Pack mode	Order multiple
068U3505	Bulb strap; 0.4 mm thick, max. 28 mm diameter tube	Industrial	45
068U3507	Bulb strap; 0.4 mm thick, max. 28 mm diameter tube	Single	1



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