

Installation guide

Electric expansion valve Type ETS 5M

Refrigerants R410A, R22, R32, R290, R454C, R515B, R1234ze, R452B, R1234yf, R452A, R454B, R454A, R455A, R449A, R407C, R134a, R407H, R513A, R449B, R404A, R448A, R463A	Max. working pressure PS / MWP: 4.55 MPa / 45.5 barg / 660 psig			
	Refrigerant temperature t _{Min.} : -30 °C / -22 °F, t _{Max.} : 70 °C /158 °F			
Refrigerants R410A, R22, R32, R290, R454C, R515B, R1234ze, R452B, R1234yf, R452A, R454B, R454A, R455A, R449A, R407C, R134a, R407H, R513A, R449B, R404A, R448A, R463A Safety notes for flammable refrigerants (R454C, R454A, R1234ze, R290, R32, R452B, R454B, R455A, R1234yf) This product is validated in accordance to ATEX, EN 378, ISO 5149, ASHRAE 15, IEC 60335-2-x or equivalent standards. Ignition risk is evaluated in accordance to ISO 5149 and IEC 60335. See safety note below.	Allowable ambient temperature -30 °C / -22 °F - 60 °C / 140 °F	Phase current 240 mA	Resistance 50 Ω	
	Stepper motor type Unipolar			
	Nominal voltage 12 V DC			
 Safety notes: The product can be applied on systems with R454C, R454A, R1234ze, R290, R32, R452B, R454B, R455A, R1234yf as the working fluid. For countries where safety standards are not an indispensable part of the safety system Danfoss recommend the installer to get a third party approval of the system containing flammable refrigerant. Note, please follow specific selection criteria stated in the datasheet for these particular refrigerants. The valve must only be used in closed circuit refrigeration system, where no oxygen is present acc. EN 378, ISO 5149 ASHRAE 15 or IEC 60335-2-x or equivalent standards. 	1 Mounting Angle			
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