

Refrigeration Note

Product Info

RoHS Directive Implemented

PL01 Thermostatic Expansion Valves, Filter Driers and Line Components

Introduction



Danfoss Automatic Controls is compliant with the requirements of Directive 2002/95/EC on the restricted use of certain hazardous substances in electrical and electronic equipment (RoHS).

The enforcement date of the Directive is 1st of July 2006.

The products that Danfoss Automatic Controls supply to the market are not within the scope of the RoHS Directive. The majority of products are not electrically operated; which covers the following products:

- Thermostatic expansion valves, types T/TE, TU, TC, PHT, TR6, TD1/TDE1, TDE and TRE
- Adaptors for T/TE 2
- Capacity regulator, type CPCE
- Pressure regulators, types KVP, KVL, KVR, KVC, and KVD
- Line components, types OUB, BM, GBC, NRV and NRD
- Sight glasses, types SGI, SGN, SGR, SGH, SG
- Refrigerant distributors, type RD
- Filter driers, types DML, DCL, DAS, DCR, DCC/DMC and DCB/DMB
- Flare/solder adaptors, type FSA

The following products are electrically operated, but are exempted from the restrictions laid down in the RoHS directive because they belong to Category 9 (Monitoring and Control Instruments) in Annex I A of Directive 2002/96/EC (WEEE).

- Electrically operated expansion valves, types ETRE and ETS
- Electrically operated suction modulating valve, type KVS

Danfoss' environmental commitment

Although the products supplied by Danfoss Automatic Controls are beyond the scope of both the RoHS and the WEEE directive, Danfoss Automatic Controls is still committed to restrict the use of the substances listed in the two directives - i.e. lead, cadmium, hexavalent chromium, mercury and polybrominated flame retardants (PBB and PBDE).

Since 1996 the Danfoss Group has issued a Negative List in which we voluntarily have put limitation on our use of certain hazardous substances in products and production processes; fortunately the substances now being brought into focus in the RoHS Directive have appeared on the Danfoss Negative List for several years.

Although the thermostatic expansion valves, filter driers and line components supplied by Danfoss Automatic Controls are exempted from the RoHS Directive, it is our conviction that the intentions in the RoHS Directive reflect a trend in the market demand, and Danfoss is committed to proactively screen all our products and production processes to align with the Directive.

To fulfil this objective we made contact with our suppliers to ensure that raw materials and parts delivered to Danfoss are in alignment with the RoHS Directive.

Furthermore we have developed a new Thick Layer Passivation process as an alternative to chrome passivation to effectively abandon the use of hexavalent chromium in corrosion resistance.

Our efforts have successfully been completed by the end of 2005; and in Danfoss Automatic Controls we are pleased to announce our alignment with the RoHS Directive for all thermostatic expansion valves, filter driers and line components six months before the Directive takes effect.

Lars Finsen
Director, Quality & Environment

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