



NEWS

Danfoss Commercial Compressors

WEEE / RoHS European Directives

February, 3rd 2006

The above two European Union directives are relating to household electrical and electronic equipment used by consumers.

With this Technical News, Danfoss Commercial Compressors provides specific information concerning its commercial compressor products in relation to the WEEE & RoHS directives.

WEEE directive 2002/96/EC (Waste Electrical and Electronic Equipment)

The objective of the WEEE directive is to improve the level of environmental protection within the European Union through the reduction of waste from household electrical and electronic equipments. Equipment producers are responsible for the management of take-back and disposal of waste starting from 13 August 2005.

RoHS directive 2002/95/EC (Restriction of Hazardous Substances)

The RoHS directive aims at harmonisation of the legislation in the EU Member States on the restriction of the use of hazardous substances in household electrical and electronic equipment. The general rule is that equipment containing a certain level of lead, mercury, cadmium, hexavalent chromium, PBB's and PBDE's may not be placed onto the market after 1 July 2006.

Product Categories concerned by WEEE & RoHS directives (annexe 1A of the Directive 2002/96/EC)

List of products which shall be taken into account for the purpose of these Directives and which fall under the categories of Annex IA

Product category	WEEE	RoHS
1. Large household appliances (re. detailed list below)	X	X
2. Small household appliances	X	X
3. IT and telecommunications equipment	X	X
4. Consumer equipment	X	X
5. Lightning equipment	X	X
6. Electrical and electronic tools	X	X
7. Toys, leisure and sports equipment	X	X
8. Medical devices	X	-
9. Monitoring and control instruments	X	-
10. Automatic dispensers	X	X

Large household appliances: Large cooling appliances, Refrigerators, Freezers, Other large appliances used for refrigeration, conservation and storage of food, Washing machines, Clothes dryers, Dish washing machines, Cooking, Electric stoves, Electric hot plates, Microwaves, Other large appliances used for cooking and other processing of food, Electric heating appliances, Electric radiators, Other large appliances for heating rooms, beds, seating furniture, Electric fans, Air conditioner appliances, Other fanning, exhaust ventilation and conditioning equipment.

Danfoss Commercial Compressors products versus the WEEE and RoHS directives

Large household appliances are plug and play equipment purchased installed and started by the final users.

As such compressors and condensing units from Danfoss Commercial Compressors are not used in any of the product categories listed above. Compressors and condensing units are not “plug and play” equipments but rather components incorporated into an equipment. Therefore, WEEE and RoHS directives do not directly apply to Danfoss Commercial Compressors products.

RoHS substances maximum limit

The restriction of hazardous substances directive stipulates the maximum limit of 6 substances in percentage per weight and ppm in household electrical and electronic equipment. For your easy reference, the table below lists the maximum amount of each substance as per the directive and the respective content of those substances, if any, in Danfoss Commercial Compressors (DCC) products.

The content of hazardous substances in DCC compressors is within the limit set by the directive.

Substance	Directive max limit	DCC max content
Cadmium - Cd	0,01% (100 ppm)	0,005% (50 ppm)
Lead - Pb	0,1% (1000 ppm)	0,02% (200 ppm)
Mercury - Hg	0,1% (1000 ppm)	0
Hexavalent Chromium (VI) - Cr (VI)	0,1% (1000 ppm)	0,02% (200 ppm)
PBB (Poly Bromo Biphenyl)	0,1% (1000 ppm)	0
PBDE (Poly Bromo Diphenyl Ether)	0,1% (1000 ppm)	0

Danfoss Commercial Compressors Quality and Environmental policy

Danfoss Commercial Compressors is very conscious about it's environmental responsibilities. Our products and production processes are always in accordance with legal requirements. Further we are in a constant process of analysing and reducing our impact on the environment.

Please also refer to enclosed Danfoss group press release from 26 April 2005 “Danfoss prepares for new EU directives”.

Press release

Danfoss prepares for new EU directives
26 April 2005

When two new EU directives relating to equipment with electrical/electronic components become effective within the next 12 months, the Danfoss products affected will comply with the requirements. Danfoss will therefore remain a safe and reliable choice for customers.

The WEEE (Waste Electrical and Electronic Equipment) directive requires producers and importers to guarantee return and reuse of waste from electrical/electronic equipment, and the financing of this process. Danfoss believes it is very important to make sure that all customers in the EU who buy the company's equipment can dispose of it for controlled reuse when it can no longer be used.

Danfoss intends to ensure compliance with the directives' requirements for equipment design and simple dismantling. For that reason, a working party has been given the task of coordinating activities relating to the directive, dealing with negotiations with national authorities and waste handlers across the 25 EU member countries, amongst other things.

The RoHS (Restriction of Hazardous Substances) directive forbids the use of lead, cadmium, hexavalent chromium, mercury and the flame retardants PBB and PBDE in electrical/electronic equipment - which amounts to a technical and production challenge when applied to some Danfoss equipment. However the company's experiences show that a number of technical solutions exist which fully ensures the functionality and quality of the equipment.

For a long time now, Danfoss has worked on projects to ensure that the Group's equipment meets the directive's requirements, and the compliant equipment should be in place no later than the date on which the directive comes into effect.

Announcement from the Danfoss Executive Committee

Commenting on the Group's attitude to the two EU directives, the Danfoss Executive Committee states:

"The Danfoss Group is a global company with many stakeholders, and its measures have an impact on the lives of a number of people. Danfoss is very conscious of this and has therefore initiated systematic and targeted activities in the field of Corporate Citizenship, at a very early stage. At Danfoss, Corporate Citizenship concerns the way in which the company handles its social and environmental responsibilities, both internally and externally.

"In connection with the EU WEEE and RoHS directives, Danfoss has initiated a number of activities to make sure that the Group's products comply with the directives in time. It is Danfoss' clear objective to ensure that customers can get high-quality and reliable products and have the opportunity to dispose of worn-out products in an environmentally sound manner. Danfoss must be a safe and reliable choice for our customers and we therefore think it important that our products comply with the requirements of the WEEE and RoHS directives.

"Danfoss has appointed project leaders in charge of both directives in order to ensure timely implementation of activities and processes relating to compliance with the directives' requirements."