# [1] EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC



- [3] EC-Type Examination Certificate Number: DEMKO 05 ATEX 135385X
- [4] Equipment or Protective System: Pressure Controls/Thermostats, RT....
- [5] Manufacturer:

Danfoss A/S

[6] Address:

121

6430 Nordborg, Denmark

- [7] This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.
- UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 135385

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014: 1997 E incl. A1+A2 EN 50020: 2002 E
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment of protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.
- [12] The marking of the equipment or protective system shall include the following:

EN II 2 G EEx ia IIC T6

On behalf of UL International Demko A/S

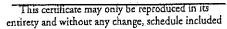
Herley, 2006-08-09

Karina Christiansen Certification Manager

**UL International Demko A/S** 

Certificate: 05 ATEX 135385X

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#### [13]

# Schedule

## [14]

# EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 05 ATEX 135385X

## [15] Description of Equipment or protective system

The Pressure Control apparatus are designed for fitting on the valve panel of the compressor. They measure the pressure of a medium and operate an electrical switch if a selected preset level of pressure is exceeded.

The Thermostats are designed in a similar way as Pressure Control apparatus. They measure the temperature of a medium and operate an electrical switch if a selected preset temperature level is exceeded.

The type variants comprised by the Certificate (the difference between types relates to their function/performance):

Thermostats types:

RT14E, RT101E, RT107E, RT123E

#### Pressure controls:

Type		Maximum workin	g pressure
RT113E		0,4 bar	
RT112E		7 bar	
RT262AE		11 bar	
RT1AE, RT	75E, RT116E, RT260AE	22 bar	
RT6AEB, R	T6AES, RT6AEW	34 bar	
RT117E		42 bar	of the last of the

The environmental conditions for the equipment have to remain under normal atmospheric conditions (incl. pressure of 0,8 bar to 1,1 bar).

#### Electrical data

Intrinsically safe specifications (for all types):

#### Installation instructions

For ambient temperatures above +60 °C use field wiring suitable for maximum ambient temperature.

#### [16] Report No.

Project Report No.: 135385-05 (Hazardous Location Testing)

## **UL International Demko A/S**

# Schedule

# EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 05 ATEX 135385X

## Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
Overall dimensions of RT5E	017R0768-02	02	07.09.21
	(sheet 1/3)		
Overall dimensions of other RT pressure	017R0768-02	02	07.09.21
control bellows	(sheet 2/3)		
Overall dimensions of other RT thermo	017R0768-02	02	07.09.21
elements	(sheet 3/3)		
Overall dimensions of the pressure switch	017R0769-01	01	07.09.21
RT5E			
Pressure switch RT5E Function	017R0770-04	04	07.04.05
description			
Diagramatic sketch of the pressure switch	017R0771-01	01	07.09.21
RT5E			
Pressure switch RT5E	017R0772	02	07.04.05
RT5E Pressure Switch	017R0773	03	07.09.21
	(3 sheets)		
Label instruction	017R3002-01	01	07.09.21
Gasket	017-0035	00	07.05.28
Gasket	017-0036	00	07.05.28
Gasket	017-0037	00	07.05.28

## [17] Special conditions for safe use:

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range -20 °C to +65 °C

Temperature class

T5

# [18] Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herley, 2007-11-12

Jan-Erik Storgaard Certification Manager

**UL International Demko A/S** 

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