



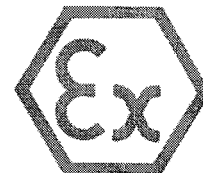
**ISSEP**  
Institut scientifique  
de service public

Métrieologie environnementale  
Recherche - Analyses  
Essais - Expertises

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(1) **EC TYPE EXAMINATION CERTIFICATE**

(2) **Equipment or protective system intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**

(3) EC type examination certificate number: **ISSeP07ATEX007X**

(4) Equipment: housing for electrical heating apparatus  
Type : D-8530

(5) Applicant – Manufacturer :  
Sinus Jevi Electric Heating B.V.

(6) Address: Nijverheidsweg 2  
1671 GC Medemblik  
THE NETHERLANDS

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) ISSEP, notified body n° 492 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 the 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 06116

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0: 2006 (IEC 60079-0: 2004) EN 60079-1: 2003 (IEC 60079-1: 2003)  
EN 61241-0: 2006 (IEC 61241-0: 2004) EN 61241-1: 2004 (IEC 61241-1: 2004)

(10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate

(11) 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 this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following indications:

II 2 G D Ex d IIC T6 to T1 Ex tD A21 IP66 T110°C

Colfontaine, the 04.05.2007

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC  
Zoning A. Schweitzer - B7340 Colfontaine (Wasmès)  
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Lambert Marcel  
Manager.

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(13)

## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSeP07ATEX007X

(15) Description of the equipment :  
 Housing for heating apparatus.  
 Type D- 8530

This apparatus consists of:

- A steel or stainless steel flameproof housing containing the connection facilities of the heating elements.
- A stainless steel tube inside which are placed the heating elements. This tube is welded to the base of the housing

#### Temperature classes

The limit temperatures of the protective device in relation with the temperature classes are mentioned in the here-below table

Temperature limit of protective device	Temperature class
80	T6
95	T5
130	T4
195	T3
290	T2
440	T1

To ensure that the temperature at the junction housing remains  $\leq 90^{\circ}\text{C}$  when the temperature of the heated fluid exceeds  $90^{\circ}\text{C}$ , the length "Y" between the mounting flange and the housing increases in function of the temperature class.

Temperature class	Length "Y" (mm)
T6	50
T5	75
T4	100
T3	150
T2	200
T1	250

#### Electrical parameters

Maximum supply voltage: 690 V – 50 Hz

#### Eventual prescriptions

Ambient temperature range:  $-30^{\circ}\text{C}$  up to  $+50^{\circ}\text{C}$

The housing shall be equipped with certified cable entries mounted in accordance with the relevant standards.

#### Routine tests

The manufacturer shall make the routine verifications and tests to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype. Each empty enclosure shall be submitted to a routine test under the pressure of 53 bar maintained during at least 10 seconds ( max 60 seconds)

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## SCHEDULE

### EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSeP07ATEX007X

- (16) Report no 06116 of 3.05.2007 composed in total of 27 pages  
The technical note from the manufacturer of 20.03.2007 (3 pages)  
The e-mail from the manufacturer of 26 March 2007  
The data sheet related to the material HNBR 70 of 1.09.2006 (1 page)  
The instructions from the manufacturer (4 pages)  
The drawings  
953.D8511-01 of 3.09.2002  
953.D8512-01 of 3.09.2002  
953.D8521-04 of 14.08.2006  
953.D8530-01 of 10.08.2006 Rev. C of 27.04.2007  
953.D8530-02 of 10.08.2006 Rev. C of 27.04.2007  
953.D8530-03 of 10.08.2006 Rev. A of 27.04.2007  
953.D8530-08 of 10.08.2006
- (17) Special conditions for safe use: Symbol X
- The layer of dust accumulated on the housing shall not exceed 5 mm.
  - The ignition temperature of the dust shall be higher than 185°C
  - The setting of the protective device to the limit temperature ensuring the temperature class shall be realised for each apparatus under the responsibility of the manufacturer. Furthermore this device shall be sealed and its setting shall not be modified later.
  - The temperature sensor of the protective device shall be placed as nearest as possible to the tube containing the heating elements.
  - When the apparatus is energised the tube containing the heating elements shall be completely immersed in the liquid – the depth of immersion above the tube is at least 50 mm.
- (18) Essential Health and Safety Requirements: covered by the standards listed at point 9 and by the descriptive documents from the manufacturer.

## VARIATION


### TYPE EXAMINATION CERTIFICATE N° ISSeP07ATEX007X/1


(14) Apparatus: Housing for electrical heating apparatus type D-8530 EX – D-8530 DS and D-8530 EX-FS.

(15) Subject of the variation

- To permit the updating of the certificate according to the latest edition of the standards in force.  
(IEC 60079-0: 2011 – EN 60079-1: 2007 – EN 60079-31: 2009)

Marking: Unchanged except the specific markings of protection, codes and ambient temperature ranges:

 II 2 G / Ex d IIC T6...T1 Gb

 II 2 D / Ex tb IIIC T110°C Db

- 30 °C < Ta < + 50 °C / - 50 °C < Ta < + 50 °C

Eventual prescriptions: Unchanged

(16) Report N° 12029 completed by 12 documents.

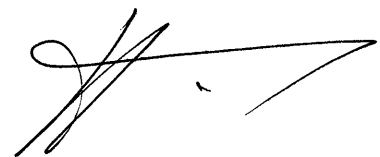
(17) Special condition for safe use: unchanged

(18) Essential Health and Safety Requirements:

- Covered by the standards listed at point 9 of the initial certificate.

Colfontaine, 17.09.2012.

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Marcel LAMBERT,  
Director.