



- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

EC-TYPE EXAMINATION CERTIFICATE

- (3) Number of the EC type examination certificate: **INERIS 06ATEX0025**

- (4) Equipment or protective system:

RADIATOR TYPE R.A.D.F...

- (5) Manufacturer: **ACIM JOUANIN**

- (6) Address: **650, rue Vulcain
F - 27017 EVREUX**

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in confidential report No P62213/06.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014 of June 1997 + Amendments 1 and 2
EN 50 018 of November 2000 + Amendment 1

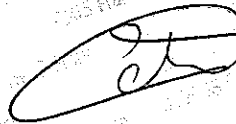
- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

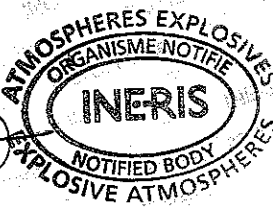
- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.
- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive 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 the protective system will have to contain:

 II 2 G

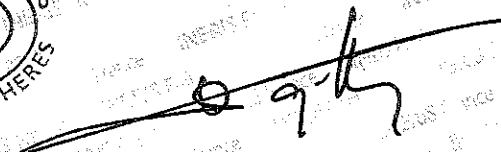
EEx d IIC T3

Verneuil-en-Halatte, 2006 12 18


C. PETITFRERE



Project Manager at the ATEX
Equipment Certification Laboratory



Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy Manager of Certification

(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 06ATEX0025

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The radiator consists in a terminal box and resistance heating devices inside an internal fanned tube.

The terminal box is fitted with a thermostat connected to a thermal probe located near the resistance heating, and allowing the adjustment of the power.

The radiator gets the protection degrees IP65 according to the European standard EN 60 529.

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltages : 230 V (single or three-phase)

400 V (three-phase)

Frequency : 50 Hz

Maximum power dissipated :

- Radiator type R.A.D.F 1000 : 1000 W

- Radiator type R.A.D.F 1500 : 1500 W

- Radiator type R.A.D.F 2000 : 2000 W

MARKING

Marking has to be readable and indelible; it has to include the following indications:

ACIM JOUANIN

F - 27017 EVREUX

(*)

INERIS 06ATEX0025

(Serial number)

(Year of construction)

⊕ Ex II 2 G

EEx d IIC T3

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(*) One of the following types : R.A.D.F 1000, R.A.D.F 1500 or R.A.D.F 2000.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

Each equipment defined above have to successfully passed the following individual tests before delivery :

In accordance with clause 16.1 of the EN 50 018 standard, an overpressure test of a period comprised between 10 and 60 seconds under :

- 12.9 bar for the terminal box
- 20 bar for the heating box

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.

– Certification file n° BE LIST 013 rev. 1 of 2006.11.13

This file signed on 2006.11.13-included 42 items.

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are stipulated on the instructions.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the European standards EN 50 014 and EN 50 018.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

COMPLEMENT

- (3) INERIS 06ATEX0025/01
- (4) RADIATEUR Type R.A.D.F...
- (5) Construit par ACIM JOUANIN

(15) OBJET DU COMPLEMENT

- Application des nouvelles normes EN 60079-0 : 2006 et EN 60079-1 : 2004.
- Variante d'exécution pour la catégorie II 2 D selon les normes EN 61241-0 : 2006 et EN 61241-1 : 2004.

Le radiateur présente les degrés de protection IP65 selon la norme EN 60529.

PARAMETRES RELATIFS A LA SECURITE


Les paramètres relatifs à la sécurité sont inchangés.

MARQUAGE

Le marquage est modifié comme suit :

ACIM JOUANIN
F - 27017 - EVREUX

(*)
INERIS 06ATEX0025
(Numéro de série)
(Année de construction)

 II 2 GD
Ex d IIC T3
Ex tD A21 IP65 T200°C

AVERTISSEMENTS :

NE PAS OUVRIR SOUS TENSION
NE PAS OUVRIR SI UNE ATMOSPHERE EXPLOSIVE GAZEUSE PEUT ETRE PRESENTE

(*) Un des types suivants : R.A.D.F 1000, R.A.D.F 1500 ou R.A.D.F 2000.

L'ensemble du marquage peut être réalisé dans la langue du pays d'utilisation.

L'appareil ou le système de protection doit aussi porter le marquage normalement prévu par les normes de construction qui le concernent.

EXAMEN ET ESSAIS INDIVIDUELS

Les examens et essais individuels sont modifiés comme suit :

Chaque exemplaire du matériel ci-dessus défini doit avoir subi avec succès, avant livraison conformément au § 16.1 de la norme EN 60079-1, une épreuve de surpression statique d'une durée comprise entre 10 et 60 secondes sous :

- 12,9 bar pour le compartiment raccordement.
- 20 bar pour le compartiment résistances.

(16) DOCUMENTS DESCRIPTIFS

Le document descriptif cité ci-après, constitue la documentation technique de la modification apportée au matériel et faisant l'objet du présent complément :

- Dossier de certification n° BE LIST 013 rév. 2 du 2007.11.28 signé le 2008.03.05

(17) CONDITIONS SPECIALES POUR UNE UTILISATION SURE

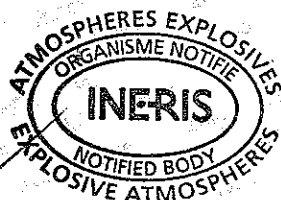
Néant.

(18) EXIGENCES ESSENTIELLES DE SECURITE ET DE SANTE

Le respect des Exigences Essentielles de Sécurité et de Santé est complété comme suit :

- La conformité aux normes EN 60079-0 : 2006, EN 60079-1 : 2004, EN 61241-0 : 2006 et EN 61241-1 : 2004.
- L'ensemble des dispositions adoptées par le constructeur et décrites dans les documents descriptifs.

Verneuil-en-Halatte, 2008 03 06



S. MAUGER
S. MAUGER

Ingénieur au Laboratoire d'Evaluation
des Equipements ATEX

Le Directeur de l'Organisme Certificateur,
Par délégation
T. HOUeix
Délégué Certification
Direction de la Certification