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STATION SERVICE
AIRE DE RESSONS EST

AUTOROUTE A1

60490 RESSONS-SUR-MATZ

ICPE

CERTIFICATS ATEX
APPAREILS DISTRIBUTEURS

DATE: 14/11/2018

CONTROLE: S. ABADEZ

ECHELLE:

DESSINE: C. DA COSTA

058967

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| REP | DATE | MODIFICATIONS | DESSINE PAR | CONTROLE PAR |
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sira
Certification Service

RATEX 012 (o)

1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 04ATEX9170U

4 Component: Vapour Recovery System Modules

5 Applicants: Tokheim UK Ltd and Tokheim Sofitam Applications

6 Address: Unit 3 Baker Road Route de Soliers
West Pitkerro Industrial Estate 14540
Dundee DD5 3RT Grentheville
Scotland France

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R53M11448A.


9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured with reference to the following document:

EN 13617-1:2004

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

 II 1/2 G

Project Number 53M11448
Date 1 November 2004
C. Index 09

D R Stubbings BA MIEE
Certification Manager

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Sira Certification Service

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Sira Certification Service is a service of Sira Test & Certification Ltd



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 04ATEX9170U

13 DESCRIPTION OF COMPONENT

The vapour recovery system module is designed to fit into the hydraulic cabinet and frame of existing, liquid fuel dispensers and are intended to recover fuel vapour emitted from the nozzle during dispensing and return it to the storage tank. They comprise:

- a vapour pump, with associated flame arresters, powered by a motor, both of which are suitably certified and rated
- a filter unit
- suitably certified and rated control valves
- copper pipework and associated joints
- a splitter unit fitted to the outlet pipe

The vapour recovery system module is configured to suit the associated dispenser such that existing dispenser zoning is not compromised. The module requires a vapour recovery hose to EN 13483 and a suitably certified vapour recovery nozzle to be fitted.

Where pipework and/or cabling passes through existing vapour barriers, the characteristics of the barrier are maintained by using suitably rated cable glands.

The modules are controlled by: **VFM (Vapour Flow Module)** - signals from the existing pulser and an in-line vapour meter are processed by electronics mounted in the dispenser head to control the activation and flow of the vapour system. An in-line damping vessel is fitted to maintain system accuracy.
ECVR (Electronically Controlled Vapour Recovery) - signals from the existing pulser are processed by electronics mounted in the dispenser head to control the activation and flow of the vapour system.

Design Options

- the following devices may be fitted to the vapour return line, dependent on local regulations:
 - shear valve
 - non-return valve
 - manual isolation valve
 - flame arrester assembly
- two modules may be powered from a single motor
- a vapour line pressure gauge may be fitted

14 DESCRIPTIVE DOCUMENTS

| 14.1 | Drawing No. | Sheet | Rev. | Date | Title |
|------|-------------|--------|------|-----------|--|
| | 900704-035 | 1 to 9 | A | 16 Aug 04 | Vapour recovery systems - compliance details |
| | 900704-036 | 1 to 3 | A | 16 Aug 04 | System hardware |
| | 900704-037 | 1 of 1 | A | 16 Aug 04 | System schematics |
| | 900704-038 | 1 of 1 | A | 16 Aug 04 | Component test rig |
| | 900704-042 | 1 of 1 | A | 02 Sep 04 | Marking plate |

14.2 Report number R53M11448A

Date 1 November 2004

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 04ATEX9170U

15 SPECIAL CONDITIONS FOR SAFE USE

15.1 The units shall be installed with suitably certified liquid fuel dispensers with the following modified fittings:

- vapour recovery hose to EN 13483
- vapour recovery nozzle to EN 13617-2

15.2 Any pipework, joints and modifications to vapour barriers within the associated dispenser shall maintain compliance with the requirements of the equipment certificate; the existing equipment zoning shall not be compromised as a result of the fitting of this component.

15.3 The installation of this component shall be installed such as to not obstruct or compromise the existing ventilation of its associated dispenser.

15.4 When fitted in a dispenser, the electrical supply to this component shall not compromise the safety and control functions of the equipment, cognisant of the dispenser's rating and overload values.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in report number R53M11448A.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The electrical circuit of each unit shall be subjected to the routine electrical tests required by Annex A.9.2, A.9.3 and A.9.4 of EN 13617-1:2004.

Date 1 November 2004

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1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 06ATEX9389X** Issue: **3**

4 Equipment: **Quantium 510 (500Tn) Liquid Fuel Dispenser**

5 Applicant: **Tokheim UK Limited** **Tokheim Sofitam Applications**

6 Address: **Unit 3 Baker Road** **Route de Soliers**
West Pitkerro Industrial Estate **14540**
Dundee **Grentheville**
DD5 3RT **France**
UK

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 13617-1: 2004

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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 and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G
EN 13617-1

Project Number 22589
C. Index 09

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C Ellaby
Certification Officer



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 06ATEX9389X

Issue 3

13 DESCRIPTION OF EQUIPMENT

The **Quantium 510 (500Tn) -Type A** is a hose cassette, multi-product liquid fuel dispenser, rated at 440 V, 3 phase for dispensing petrol and diesel on a garage forecourt. The equipment comprises a fabricated steel frame clad with steel panels to form a hydraulic housing, hose cassette and display/electronics enclosure.

The hydraulic housing contains up to five hydraulic circuits, each comprising an electrically driven pumping unit/metering unit, interconnecting pipework, electrically actuated flow control valves and hoses. The outlet pipes pass out of the housing into the cassette where they are connected to outlet hoses suitable for petroleum dispensing. The hoses are retained by a spring retractor arrangement within the cassette. Hoses are fitted with suitable dispenser nozzles and, optionally, dry break couplings. The nozzles are located in suitable boots fitted on either side of the cassette housing and actuate proximity switches as they are removed or replaced.

Fuel vapour is isolated and vented from the hydraulic circuit by means of a vapour separator and flame arrester arrangement. Engineered gaps between the external panels and louvre openings provide ventilation for the hydraulic housing. The display/electronics enclosure is mounted above the hydraulic housing and is in a non-hazardous area that is created by head positioning and the use of vapour barriers. Cables enter the unit via a cable duct and pass through the vapour barriers. All electrical components in the hazardous zones are suitably certified and the cabling is also appropriate for use in fuel dispensers, as specified in the schedule drawings.

All electrical and mechanical components are suitably certified, apparatus, and cabling is suitable for petroleum dispensing, as specified on the schedule drawings. The electrical circuit and enclosure metalwork is suitably earthed.

The dispenser operates at a flow rate of 3 m³/h (nominal) and may dispense up to two discrete products with only one product being dispensed from each side at one time. The dispenser may be attendant operated, attended self-service or unattended with remote or local operation.

The **Quantium 510 (500Tn) - Type B**, as the Quantium 510 (Type A) but with modified panelwork to enable an alternative payment terminal to be fitted.

The **Quantium 510 (500Tn) - Type C**, as the Quantium 510 (Type A) but with modified panelwork, ventilation and cabling arrangement to enable an alternative payment terminal to be fitted.

Variation 1: This variation introduced the following changes:

- i. The use of the alternative type designation Quantium 500Tn was recognised.

Variation 2: This variation introduced the following changes:

- i. The electronics were permitted to remotely control an automotive LPG dispenser as detailed in Sira 07ATEX9275X.

Variation 3 - This variation introduced the following changes:

- i. The option to use the TQC calculator was endorsed.
- ii. The dispenser was allowed to be used with FAME based bio-diesels.
- iii. The use of the electronics to remotely control an Ad-Blue dispenser was recognised.
- iv. A new model, the Q510E Dispenser, was introduced; minor modifications of the dispenser framework were required to form this model.
- v. The Special Condition for Safe Use clause 15.2 was amended to reflect the latest technical knowledge.

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 06ATEX9389X
Issue 3

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report no. | Comment |
|-------|------------------|------------|---------------------------------------|
| 0 | 27 February 2007 | R51M16068A | The release of the prime certificate. |
| 1 | 24 October 2007 | R59M17064A | The introduction of Variation 1. |
| 2 | 23 November 2007 | R59M16787B | The introduction of Variation 2. |
| 3 | 15 July 2010 | R22589A/00 | The introduction of Variation 3. |

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 Where a dispenser is supplied without hoses and/or nozzles, they shall be fitted in accordance with:

Hoses: EN 1360 or EN 13483

Nozzles: EN 13012.

15.2 When used for dispensing ethanol, the ethanol content shall not exceed 90% with minimum water content.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The electrical circuit of each unit shall be subjected to the routine electrical tests required by clause 6.2.1 of EN 13617-1:2004.

17.4 The hydraulic circuit of each unit shall be subjected to the routine hydraulic tests required by clause 6.2.2 of EN 13617-1:2004.

17.5 Components or apparatus specified for use with the dispenser defined as suitably certified shall be selected with due regard to the latest current standards and technical information.

17.6 The manufacturer shall assess the suitability of parts used in the construction of the fuel containment system for long-term suitability to ethanol blended fuels. Due regard should be placed on the use of corrosion inhibitors in the fuel mixture.

17.7 When used for dispensing ethanol blended fuels the manufacturer shall give due consideration to the correct selection of supplementary fittings (safe breaks etc.). Where such fittings are not provided as part of the assembly, suitable guidance shall be provided in the equipment instructions.

17.8 The Stage II vapour recovery system, when fitted to the dispenser, shall maintain the requirements listed in Certificate No Sira 04ATEX9170U.

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Certificate Annexe

Certificate Number: Sira 06ATEX9389X
Equipment: Quantum 510 (500Tn) Liquid Fuel Dispenser
Applicant: Tokheim UK Limited
Tokheim Sofitam Applications



Issue 0

| Drawing No. | Sheet | Rev. | Date | Description |
|-------------|---------|------|-----------|---|
| 900704-003 | 1 of 1 | A | 08 Dec 00 | Drip Tray Sealing |
| 900704-004 | 1 to 8 | B | 28 Aug 06 | Hydraulic Components |
| 900704-005 | 1 to 5 | A | 08 Dec 00 | Circuit Diagrams |
| 900704-006 | 1 of 1 | B | 28 Aug 06 | Energy Isolation |
| 900704-007 | 1 to 2 | B | 28 Aug 06 | Nozzle Boots |
| 900704-008 | 1 to 3 | A | 08 Dec 00 | Hydraulic Schematics |
| 900704-009 | 1 to 2 | B | 04 Jun 06 | Pumping Units |
| 900704-010 | 1 to 2 | A | 08 Dec 00 | Meters |
| 900704-021 | 1 of 1 | A | 08 Oct 02 | Modified EPZ Pumping Unit |
| 900704-040 | 1 to 5 | A | 04 Jun 06 | Pumping Unit Option |
| 900704-048 | 1 to 6 | A | 19 Oct 04 | Quantium 510 Type B - Alternative 'Wincor' Payment Terminal Arrangements |
| 900704-053 | 1 of 1 | B | 04 Jun 06 | Nozzle Holder Assembly |
| 900704-055 | 1 to 12 | B | 28 Aug 06 | Quantium 510 Type C - Alternative 'Radiant' Payment Terminal Arrangements |
| 900704-064 | 1 of 1 | 1 | 04 Jun 06 | Test Rigs |
| 900704-065 | 1 to 32 | A | 11 Dec 06 | Quantium 510 Liquid Fuel Dispenser Arrangement and Details |
| 900704-066 | 1 to 7 | 1 | 28 Aug 06 | Equipment Marking |
| 900704-074 | 1 to 2 | A | 07 Dec 06 | Ethanol Dispensing Details |

Issue 1

| Drawing No. | Sheet | Rev. | Date | Description |
|-------------|---------|------|-----------|--|
| 900704-065 | 1 to 32 | B | 02 Aug 07 | Quantium 510 (500Tn) Liquid Fuel Dispenser Arrangement and Details |

Issue 2

| Drawing No. | Sheet | Rev. | Date (Sira Stamp) | Description |
|-------------|---------|------|-------------------|--|
| 900704-065 | 1 to 33 | C | 18 Nov 07 | Quantium 510 liquid fuel dispenser arrangement and details |
| 903111-028 | 1 to 6 | A | 18 Nov 07 | Quantium 510 controlling Quantum 510LPG dispenser - Type B |

Issue 3

| Drawing No. | Sheets | Rev. | Date (Sira stamp) | Title |
|-------------|---------|------|-------------------|--|
| 900704-065 | 1 to 33 | D | 15 Jun 10 | Quantium 510 Dispenser Range |
| 900704-083 | 1 to 2 | A | 15 Jun 10 | Dispensers For Biodiesels Based On FAME |
| 900704-085 | 1 to 4 | A | 15 Jun 10 | Tokheim Quality Calculator (TQC) |
| 900704-089 | 1 to 4 | A | 15 Jun 10 | Q510 Petrol/Diesel Dispenser Controlling Ad-Blue Dispenser |
| 900704-100 | 1 to 5 | A | 15 Jun 10 | Quantium 510 Range Type 'E' Model |

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