



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 14ATEX6322X** Issue: **0**

4 Equipment: **Merris Maximix Shaker Unit**

5 Applicant: **Merris Engineering Ltd**

6 Address: **Unit 10 Airlooney Business Park  
Ballygaddy Road  
Tuam  
County Galway  
Ireland**

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

8 Sira Certification Service certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 2 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

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 of this certificate, has been assessed by reference to:

EN 13463-1:2009 EN 13463-5:2011

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following:



II 2G IIB c T3  
Ta = +5°C to +40°C

Project Number 70005464

C Ellaby  
Deputy Certification Manager

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**SCHEDULE**

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**13 DESCRIPTION OF EQUIPMENT**

The Merris Maximix Shaker Unit is designed for indoor use only, to process paints and colorants in canisters ranging in sizes from 1 to 25 litres. The equipment comprises an enclosure incorporating three solid steel frames within which mechanical assemblies and mechanisms together with previously ATEX certified electrical and mechanical parts are fitted. The enclosure is fabricated from mild steel sheet and incorporates a non-metallic window in the hinged front door.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	21 November 2014	R70005464B	The release of prime certificate.

**15 SPECIAL CONDITIONS FOR SAFE USE**

- 15.1 The equipment shall be protected from mechanical impact in service by location or suitable guarding.
- 15.2 The user shall ensure that the equipment is appropriately earthed; refer to the equipment's User Manual and General Arrangement Drawing number DWG-52-1000-01 to 05.
- 15.3 At regular intervals and/or as specified by the manufacturer, appropriate cleaning cycles shall be carried out to ensure dust deposits do not accumulate between rotating elements of the equipment.
- 15.4 The equipment and enclosure covers shall not be removed during operation.
- 15.5 The condition of the door shall be checked regularly to ensure it is in good condition.
- 15.6 The weight of the mixed material including the canister shall not exceed 35 Kg.
- 15.7 At regular intervals check the springs to ensure there is no build up of dust, dried paint etc.
- 15.8 The bearings shall not be exposed to liquids, solvents or vapours that are likely to cause damage. If excessive noise, vibration, heat etc, is experienced the equipment shall be stopped and examined until the fault is found and rectified.
- 15.9 The Merris Maximix Shaker Unit is designed for indoor use only, in an ambient temperature range of +5°C to +40°C. The user shall ensure the equipment has no direct exposure to the environment.
- 15.10 The Merris Maximix Shaker Unit is designed for indoor use only, to process paints and colorants in canisters ranging in sizes from 1 to 25 litres. The equipment comprises an enclosure incorporating three solid steel frames within which mechanical assemblies and mechanisms together with previously ATEX certified electrical and mechanical parts are fitted. The enclosure is fabricated from mild steel sheet and incorporates a non-metallic window in the hinged front door.

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSRs)**

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

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Issue 0

**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 Type Examination Certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The equipment covered by this certificate incorporates previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.
- 17.4 The manufacturer shall provide the end-user and/or installer with an appropriate copy of the certificate for each certified component, device, and product that is fitted in the equipment.
- 17.5 The manufacturer shall provide the user with a copy of the General Arrangement Drawing number DWG-52-1000-01 to 05.

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# Certificate Annexe

Certificate Number: Sira 14ATEX6322X  
Equipment: Merris Maximix Shaker Unit  
Applicant: Merris Engineering Ltd



## Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
DWG-52-1000-01 to 05	1 to 5	3	01 Dec 14	MAXIMIX General Assembly
DWG-52-1001-01	1 of 1	0	14 Nov 14	MAXIMIX ROUTING DIAGRAM
DWG-52-1003-01	1 of 1	0	14 Nov 14	Merris MAXIMIX ATEX LABEL
DWG-50-1002-01	1 of 1	0	14 Nov 14	Merris Suspension Unit Detail
36-0006	1 of 1	0	14 Nov 14	Merris Suspension Spring

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