

1 EC-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

- 3 EC-Type Examination Certificate No: **FM08ATEX0028**
- 4 Equipment or protective system:
(Type Reference and Name) **AP2, AP3 and AP4 Series Pumps Models**
- 5 Name of Applicant: **QED Environmental Systems**
- 6 Address of Applicant: **6095 Jackson Road, Ann Arbor, MI 48103, USA**

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

8 FM Approvals Ltd, notified body number 1725 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 confidential report number 3029647EC dated 5th November 2008

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:
EN13463-1:2001 and EN13463-5: 2003.

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, 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 protective system shall include:



II 1 G c IIB T6 Ta = 1°C to +65°C (For AP2 and AP3)
II 1 G c IIB T5 Ta = 1°C to +82°C (For AP4)
II 1 G c IIB T4 Ta = 1°C to +121°C (For AP4)

Nicholas Ludlam
Deputy Certification Manager, FM Approvals Ltd.

Issue date: 6th November, 2008



THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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SCHEDULE



to EC-Type Examination Certificate No. FM08ATEX0028

13 Description of Equipment or Protective System:

The AP series "AutoPump" pump is a submersible pneumatic liquid extraction pump that pumps in pulses by which various liquids are filled and emptied automatically. It has been designed to handle any liquid which flows freely into the pump and is compatible with the component materials and with connecting hoses. The AP pumps come in three different major models namely AP2, AP3 and AP4 and depending on the individual model it can be top or bottom inlet. In the AP2 and AP3 range, each inlet can be long or short, but in the AP4 range each inlet type are sub-divided into five different types namely; long, short, low-drawdown, hammerhead or short hammerhead. The AP Series has a built-in control system that detect the presence of liquid, therefore, they pump when liquid is present and shut down when the liquid level is low or empty without the need for any sensors in the well or any other control at the surface. The AP2 and AP3 series carry a T6 temperature class but the AP4 can be manufactured with T6, T5 or T4 temperature classes, dependent upon the maximum ambient temperature rating. Also, AP Series pumps are available with various pressure ratings. The specific ratings are marked on the products.

The specific models are as follows:

- AP2 Pump.*
- AP3 Pump.*
- AP4 Pump.*

14 Special Conditions for Safe Use:

None.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

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17 Approved Drawings

Drawing Number	Rev	Description
500023	2	Drawing List for AP-4 Pump
500024	2	Drawing List for AP-3 Pump
500025	2	Drawing List for AP-2 Pump
602236	1	AP-4 Manual
602234	1	AP-3 Manual
602232	1	AP-2 Manual
206114	6	AP4 Pump Label Drawing
206116	5	AP4 Pump Label Drawing
206119	4	AP2 Pump Label Drawing
206120	4	AP2 Pump Label Drawing
206132	3	AP3 Pump Label Drawing
602205	2	AP2 Pump ATEX Label Location and Appearance
602206	2	AP3 Pump ATEX Label Location and Appearance
602207	3	AP4 Pump ATEX Label Location and Appearance
302855	2	Short AP-3 Frame Assembly with ATEX Label
302856	2	Long AP-3 Frame Assembly with ATEX Label

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