



1. **TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**

3. Type Examination Certificate Number: **ITS03ATEX41122**

4. Equipment: **HYDROFLOW PHYSICAL WATER CONDITIONER MODEL C--Ex**

5. Manufacturer: **HYDROPATH (UK) LIMITED**

6. Address: **Nottingham, NG7 2TR**

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. ITS Testing and Certification Limited 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 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Report Number:  
ITS Report Ref 02008693, dated May 2003

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50021: 1999

except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protection system.

12. The marking of the equipment or protective system shall include the following: -



II 3 G, EEx nC IIC T6 (T<sub>amb</sub> =50°C)

**ITS Testing & Certification Limited**  
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**A T Austin**  
Principal Engineer  
2 May 2003

This certificate may only be reproduced in its entirety and without any change, schedule included, and is subject to ITS Testing and Certification Conditions for Granting Certification.

13. **Schedule**

14. **TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX41122**

15. **DESCRIPTION OF EQUIPMENT**

The Hydroflow Physical Water Conditioner Model C--Ex is designed to eliminate limescale (Kalk) in water systems.

The Hydroflow Physical Water Conditioner may be one of the models depending upon the outside diameter of the pipe as given below.

Model C45Ex: 45 mm outer diameter of the pipe  
Model C60Ex: 60 mm outer diameter of the pipe  
Model C100Ex: 100 mm outer diameter of the pipe  
Model C120Ex: 120 mm outer diameter of the pipe  
Model C160Ex: 160 mm outer diameter of the pipe

The apparatus comprises of a printed circuit board containing electronic circuits housed within a metallic enclosure and potted, and an external core made up of a number of custom ferrite bars. The number of ferrite bars used depends on the outside diameter of the pipe to which it is fitted.

The enclosure provides a Degree of Protection IP54.

The Hydroflow Physical Water Conditioner may be energised at a rated voltage of 87 V – 240 V rms.

16. **REPORT NUMBER**

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