


EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 15 ATEX 7676X Issue 0
- [4] Product: Fan Heater Assembly SWX Ex 12 and SWX Ex 22.
- [5] Manufacturer: FRICO AB
- [6] Address: Industrivägen 41,
43361 Sävedalen
Sweden.
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012, EN 60079-7:2007, EN 14986:2007, EN 13463-1:2009 and EN 13463-5:2011.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

 II 2 G c Ex e IIB T4 Gb

Asle Kaastad
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2017-01-27

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 15 ATEX 7676X Issue 0

[15] Description of Product

SWX Ex is a hot water fan heaters for hazardous area. This fan heater is of two sizes SWX Ex 12 and SWX Ex 22. SWX Ex has been developed specifically for heating the air in environments with occasional danger of explosion with maximum inlet water temperature of 125°C and the ambient temperature of -20 °C to +40 °C. The fan Heater assembly includes the Ex e certified fan motors, which is supplied with Ex class fan motor Junction box. The fan motor is fitted with PTC thermistors to protect against overheating, and the installation also requires an external thermistor motor protection, thus connected to motor protector U-EK230E and a contactor placed in the safe area. The Fan heater chassis, wall bracket and air deflector is made of stainless steel EN 1.4016 or EN 1.4404 with thickness between 1 to 1,5mm. The IP class included for the Fan motor is IP 44. The water supply pipe is connected to the lower pipe on the heater and outlet pipe to the upper pipe of the fan heater with connection diameter is 22 mm on SWX Ex12 and 28 mm on SWX Ex22. The fan heater are mounted with pipes facing left to right, when the fan heaters is mounted with pipes facing right then the air deflector must be turned for the air to deflect downwards.

Type designation

SWX Ex 12 & SWX Ex 22.

Electrical Data

3-230/400V 50 Hz 0,43/0,25A

Degrees of protection (IP Code)

IP 44 Fan Motor.

Ambient temperature:

-20°C to +40°C

[16] **Report No.:** D0002321.

[17] **Specific Conditions of Use**

- 1) The fan heater must not be connected to hot mains water or steam. The highest temperature and pressure allowed is indicated on the identification plate, with the maximum inlet water temperature is restricted to 125°C
- 2) The fan motor is fitted with PTC thermistors to protect against overheating, and thus therefore be connected to certified motor protector U-EK230E and a contactor placed in the safe area.
- 3) Electrical connection to the mains requires fixed wiring. A multi-pole breaker with a minimum 3 mm length of break must be used for the permanent installation, using Ex approved components in the risk area.

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
59031	Frico SWX Ex 12/ SW Ex 22 (Type table location and warning lable location	1	2017-01-18
173123	Installation and maintenance instrcutions	1	-

Refer Confidential report D0002321 for the complete descriptive list of technical drawings.

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2017-01-27	D0002321

END OF CERTIFICATE