



Certificate of Conformity

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afp - 2890	14-Jan-2014	Number 1	Issue date 14-Jan-2014	

Product designation

Fogmaker® Universal, water-based, self-contained automatic extinguishing system
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Fogmaker Australia Pty Ltd
25 Mustang Drive, RUTHERFORD, NSW, AUSTRALIA, 2320

Registrant

Fogmaker Australia Pty Ltd
25 Mustang Drive, RUTHERFORD, NSW, AUSTRALIA, 2320

Producer

Fogmaker International AB
Sandvägen 4, VÄXJÖ, SWEDEN, 352 45

Conformance criteria and evaluation

The Fogmaker® Universal, water-based, self-contained automatic extinguishing system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories Standard UL 1384, 'Outline of Investigation for Water-Based Automatic Extinguisher Units'.
2. Underwriters Laboratories - Evaluation, follow-up services and listing, 'UL listing'.
3. Swedish Fire Protection Association Guidelines SBF 128, 'Guidelines for fire suppression systems on buses and coaches'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. System design, installation and maintenance shall be in accordance with the producer's design, installation, operation and maintenance instruction manual (refer Schedule of relevant articles), including detailed instructions for correct usage and maintenance and the requirements of AS 4587-1999 and authorities having jurisdiction.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by


David Whittaker



Schedule to Certificate of Conformity

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Producer's description

The Fogmaker® Universal, water-based, self-contained automatic extinguishing system consists of anodised aluminium containers available in different versions depending on the volume of the extinguishant.

Fogmaker® Universal 3.3 l, 4 l, 6.5 l and 7.5 l consist of one container. The 6.6 l, 8 l and 13 l consist of two containers interconnected by a hose connection.

8 l and 13 l extinguishers are used primarily in larger machines and vehicles. They then have sufficient capacity to be connected to a pipe system with up to approximately 11-15 nozzles. As a comparison, a 4 l extinguisher manages up to 6-8 nozzles. On delivery the extinguisher is filled to approximately 100 bar pressure. The propellant consists of nitrogen.

Technical specification

The following details are a representative extract of the technical specification for the Fogmaker® Universal, water-based, self-contained automatic extinguishing system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Model	Num. of containers	Volume		Charging pressure @ 20°C
		Fluid	Propellant	
1032	Single	3.3 l	100 l	10000-10500 kPa (100-105 Bar)
1042		4.0 l	130 l	
1062		6.5 l	200 l	
		7.5 l		
1232	2	6.6 l	200 l	
1242		8.0 l	260 l	
1262		13.0 l	400 l	

Physical properties

Container:	Extruded high resistant aluminium
Mounting brackets:	Aluminium, straps of stainless steel
Valve:	Brass, pertaining components of stainless steel
Anodizing:	Min 20 µm, all aluminium parts

Other specifications

Container ambient temperature container:	-35° to 65°C
Extinguisher fluid:	Water, frost protection, film-former
Frost protection temperature:	Standard to -35°C
Propellant:	Nitrogen

Classifications (NFPA 10):

Class A, ordinary combustibles
Class B flammable liquid fires

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
File ref.	GMFZ.EX16446	GMFZ.EX16446, Self-contained Automatic Extinguisher Units (ul_w3_GFMZ_EX16015_v_2014-01-14.pdf)	14-Jan-2014	Underwriters Laboratories Inc., US; Certifications Directory
Designation (Beteckning)	F325912	Full –scale extinguishing trials of water mist in a bus fire, in accordance with SBF 128	24-May-2004	SP Technical Research Institute (SP Sveriges Tekniska Forskningsinstitut), SE
Manual No.	8021-002	Fogmaker® Universal Installation manual	13-Oct-2013	Fogmaker International AB, SE
Part num.	8020-002	Fogmaker® Universal Service manual	16-Oct-2013	
Edition	3.4	Fogmaker® Universal Parts catalog		