



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1020</b>	12-Aug-1996	Number 13	Issue date 26-Apr-2019	30-Apr-2020

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## Product designation

**'Automatic', Model H, 20NS x 11.6K(metric), 68°C, Horiz. Sidewall, EC/QR-EC Sprinklers**  
(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Kidde Australia  
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

## Registrant

Kidde Australia  
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

### Producer

Badger Fire Protection Inc.  
Route 29 North, CHARLOTTESVILLE, VA, UNITED STATES, 22906

## Conformance criteria and evaluation

The 'Automatic', Model H, 20NS x 11.6K(metric), 68°C, Horiz. Sidewall, EC/QR-EC Sprinklers have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL listing'.

## 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. The maximum specified working pressure is 1200 kPa.
- ii. Coverage achievable is subject to the temperature rating of the installed sprinklers and at least the manufacturer's specified minimum flow rate and pressure being available at the sprinkler head. Refer to the manufacturer's technical data for "Area of Coverage" details.

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  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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## Producer's description

The 'Automatic', Model H, 20NS x 11.6K(metric), 68°C, Horiz. Sidewall, EC/QR-EC Sprinklers are small high sensitivity glass-bulb spray sprinklers. The small, rugged 2.8mm glass-bulb and special deflector combine speed of operation and area of coverage to meet the extended coverage standards. During fire conditions, the heat sensitive liquid in the glass-bulb expands, causing the bulb to shatter, releasing the thimble and spring seal assembly. The water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

## Technical specification

The following details are a representative extract of the technical specification for the 'Automatic', Model H, 20NS x 11.6K(metric), 68°C, Horiz. Sidewall, EC/QR-EC Sprinklers and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>Actuating element:</b>	Quick Response, 2.8 mm diameter glass bulb
<b>Temperature ratings:</b>	57°, 68°C
<b>Orifice size (Nom):</b>	13.5 mm
<b>Deflector type:</b>	<i>Extended Coverage:</i> Spray Pendent, Horizontal Sidewall
<b>K Factor (Metric):</b>	11.6(l/min, kPa)
<b>Thread size:</b>	3/4" NPT
<b>Dimensions:</b>	Length end to end: 67 mm approximately

## Supplementary information

<b>Finishes:</b>	Plain Brass, Bright Brass Chrome Plated White Polyester Lead-coated.
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