

Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1569	19-Feb-2003	Number 8	Issue date 23-Apr-2014	30-Apr-2015

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Product designation

Hochiki, Model DH-98-AS, Duct Sampling Units

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Fire & Safety Products (A/Asia) Pty. Ltd.
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

Registrant

Fire & Safety Products (A/Asia) Pty. Ltd.
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

Producer

Hochiki Corporation
10 - 43, Kamiosaki 2-Chome, SHINAGAWA-KU, TOKYO, JAPAN, 141

Conformance criteria and evaluation

The Hochiki, Model DH-98-AS, Duct Sampling Units have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13-1998, 'Automatic fire detection and alarm systems - Duct sampling units'.

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 duct sampling unit is not used in environments likely to become wet.
- ii. The operating temperature range is -10 °C to + 50 °C.
- iii. The minimum differential pressure across the duct sampling unit is 0.7 Pa.
- iv. The duct sampling is installed as per the manufacturer's instructions.
- v. Only one duct sampling unit, with the SLR-AS smoke detector, may be connected per alarm zone circuit of the CIE.
- vi. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

Issued by



David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The Hochiki, Model DH-98-AS, Duct Sampling Units is designed for detecting smoke in air-conditioning ducts. The principle of operation is that airflow in the duct causes a pressure differential to be developed across an inlet and an outlet sampling tube. Air is drawn into the duct sampling unit via the inlet sampling tube. Air that enters the inlet sampling tube passes through a smoke detector before exiting the duct sampling unit through the outlet sampling tube.

Construction of the duct sampling unit consists of a metal sub-assembly plate with connection openings for the inlet and outlet sampling tubes. A smoke detector is positioned between the sampling tube connection openings. An air-tight plastic cover secures onto the sub-assembly plate and ensures that all air sampled by the unit is directed into the smoke detector before exiting through the outlet sampling tube. The duct sampling unit incorporates a fixed conventional type base for mounting of the smoke detector. Wiring connections to the smoke detector are made to a fixed four post termination board. The board provides for the connection of supply wiring and a remote LED indicating facility.

The Hochiki, Model DH-98-AS, Duct Sampling Units may incorporate either a Hochiki, Model ALG-AS, analogue photoelectric smoke detector or the Hochiki, Model SLR-AS, photoelectric smoke detector.

Sampling tubes for the duct sampling unit are 20 mm diameter aluminum pipe. The inlet sampling tube has a series of 8 mm diameter holes, spaced approximately every 17 mm and incorporates a plastic plug on the end of the tube. Sampling tubes are cut to size to suit the duct dimensions. The inlet sampling tube spans the full depth of the duct. The length of the outlet sampling tube is 70 % of the depth of the duct and is cut at a 45 degree angle.

Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model DH-98-AS, Duct Sampling Units and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Operating voltage:	15 Vdc to 30 Vdc
Quiescent current (SLR-AS):	390 μ A
Alarm current (SLR-AS):	8 mA
Operating temperature range:	-10°C to +50°C
Air velocity range:	91 to 1219 meters per minute
Recommended pressure differential:	greater than 2.491Pa and less than 298.9 Pa
Associated CIE:	Control and Indicating Equipment that utilize the Hochiki Digital Communications Protocol (DCP)
Minimum differential pressure:	0.8 Pa
Recommended duct size:	0.76 m to 3.04 m
Dimensions:	48 mm (high) x 180 mm (wide) x 230 mm (length)

Model	Description
DH-98-ASA	DSU fitted with Hochiki, Model ALG-AS (Listing afp - 1089), analogue photoelectric smoke detector
DH-98-ASC	DSU fitted with Hochiki, Model SLR-AS (Listing afp - 1115), photoelectric smoke detector