



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3468	14-Aug-2020	Number 1	Issue date 14-Aug-2020	30-Apr-2022
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Product designation

Kidde, Purple K, pre-engineered fire suppression system

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

Agent/distributor

Kline Fire Pty. Ltd.
10 Summit Road, NOBLE PARK, VIC, AUSTRALIA, 3174

Registrant

Kidde Technologies Inc.
4200 Airport Drive, Wilson, NC, UNITED STATES, 27896-8630

Producer

Kidde Technologies Inc.
4200 Airport Drive, Wilson, NC, UNITED STATES, 27896-8630

Conformance criteria and evaluation

The Kidde, Purple K, pre-engineered fire suppression system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 5062:2016, 'Fire protection for mobile and transportable equipment'.

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 system provides Class A and Class B total flooding protection for enclosures with openings in excess of 5% of total area of the sides, top, and bottom of the enclosure.
- ii. The system extinguishing temperature range is -40°C to +93°C.

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



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Producer's description

The Kidde, Purple K, pre-engineered fire suppression system provides suppression coverage for commercial vehicle engine compartments of overall gross volumes up to 10.1 m³ and may also include additional hazard areas. The system is normally comprised of a single dry chemical fire extinguisher containing BC-rated Purple K dry chemical extinguishing agent and distributed via a distribution system with 2 to 6 nozzles. The amount of agent and the number of nozzles required depends on the volume of the protected area(s) and the hazards within.

The Kidde, Purple K, pre-engineered fire suppression system may be controlled by various Kidde fire detection systems. Kidde Controller P/N's 413410, 413484, 477326, 477272, 476239, 476738, and 477519 can be used.

The fire extinguishers used by the system are electrically operated, stored-pressure type extinguishers that contains Purple K chemical extinguishing agent pressurized with nitrogen.

The extinguisher assembly consists of a cylinder, valve, gauge (manual or electronic), fill adapter, anti-recoil cap and an electrically operated control head with an electric actuator that are supplied as a single assembly.

Vertical extinguishers (P/N with format *****-1XYZ) are installed in the vertical orientation with the valve down. Horizontal extinguishers (P/N with format *****-5XYZ) are installed horizontally ensuring the arrow on the valve is in the "up" position.

The Kidde, Purple K, pre-engineered fire suppression systems are fire tested in a series of simulated 15 m³ engine compartment environments. The extinguisher and distribution system selection is based on the results from these tests. A prescribed scaling calculation is used to determine the limits for the three available Kidde extinguishers by agent mass and number of nozzles as detailed in the Kidde Pre Engineered Purple K Fire Suppression System Installation, Operation, and Maintenance Manual (No: 182154).

Technical specification

The following details are a representative extract of the technical specification for the Kidde, Purple K, pre-engineered fire suppression system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of properties/characteristics

The following schedules are an extract of physical and operational properties/characteristics of the certified/listed equipment.

Extinguishing agent and nozzle specification for Kidde, Purple K, pre-engineered fire suppression system based on identified hazard volume

Extinguishing Agent Quantity of Purple K Agent	Gross Hazard (Protected) Volume / m ³
10 kg (22 lb)	Up to 7 m ³
11.4 kg (25 lb)	Up to 8 m ³
14 kg (31 lb)	Up to 10 m ³

Number of Nozzles	Gross Hazard Volume / m ³
1	Up to 1.1 m ³
2	Up to 2.1 m ³
3	Up to 3.1 m ³
4	Up to 5.2 m ³
5	Up to 7.7 m ³
6	Up to 10.1 m ³

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Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Part number	Dry Chemical extinguishing agent type*	Extinguishing agent mass	Cylinder volume	Extinguisher orientation
408876-1X3Z	Purple K	22 lb (10 kg)	11.5 l	Vertical
476917-1X4Z	Purple K	25 lb (11.4 kg)	13.1 l	Vertical
476918-1X6Z	Purple K	31 lb (14 kg)	16.1 l	Vertical
413102-5X3Z	Purple K	22 lb (10 kg)	11.5 l	Horizontal
476917-5X4Z	Purple K	25 lb (11.4 kg)	13.1 l	Horizontal
476918-5X6Z	Purple K	31 lb (14 kg)	16.1 l	Horizontal

* Purple K Agent (A trade name for potassium bicarbonate (KHCO₃)): Kidde Fire Protection Pyrochem Purple K, P/N 721.

Part Number	Description
409475	22lb, 25lb and 31lb Fire Extinguisher Bracket
474959	22lb Floor Mount Bracket
348109-XXXX	Distribution Hose 3/4" (Red RFS Hose)
348108-XXXX	Distribution Hose 1/2" (Red RFS Hose)
349989-XXXX	Distribution Hose 3/8" (Red RFS Hose)
349987-XXXX	Distribution Hose 3/4" (Black CR1 Hose)
349986-XXXX	Distribution Hose 1/2" (Black CR1 Hose)
349988-XXXX	Distribution Hose 3/8" (Black CR1 Hose)
5406-16-12	Reducer Bushing 1" to 3/4"
420588	Distribution Block
350023	Tee - 1/2" NPT
5406-P-08	Plug - 1/2" NPT
350022	Nipple - 1/2" NPT
474946	Cone Nozzle
420584	Straight with 90° Nozzle Bracket
474834	45° Up with 90° Nozzle Bracket
420586	45° Down with 90° Nozzle Bracket
477163	Straight with Straight Nozzle Bracket
409475	Extinguisher Brackets, 10 kg (22lb), 11.4 kg (25lb) and 14 kg (31lb), Vertical and Horizontal mount
474959	Extinguisher Brackets, 10 kg (22lb), Floor mount
348109-XXXX	Distribution Hose 3/4" (Red RFS Hose)
348108-XXXX	Distribution Hose 1/2" (Red RFS Hose)
349989-XXXX	Distribution Hose 3/8" (Red RFS Hose)
349987-XXXX	Distribution Hose 3/4" (Black CR1 Hose)
349986-XXXX	Distribution Hose 1/2" (Black CR1 Hose)
349988-XXXX	Distribution Hose 3/8" (Black CR1 Hose)
420584	Straight with 90° Bracket
420584	45° Up with 90° Bracket
420586	45° down with 90° Bracket
477163	Straight with Straight Bracket
420588	Distribution Block
474946	Nozzle

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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.			
Report	XF3153/R1	Evaluation for Conformity of the Kidde, Purple K, Pre-engineered Fire Suppression System to the requirements of AS 5062:2016	26-Jun-2020	CSIRO, Fire Systems Laboratory
Manual No.	182154 Revision C	KIDDE PRE ENGINEERED PURPLE K FIRE SUPPRESSION SYSTEM INSTALLATION, OPERATION, AND MAINTENANCE MANUAL Manual No: 182154	7-Jan-2020	Kidde Technologies Inc., NC, US