



# Certificate of Conformity

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## Product designation

**Amerex, KP series, wet chemical type, pre-engineered, restaurant fire suppression system**

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

## Agent/distributor

Amerex Fire Australia Pty Limited  
2A Staple Street, SEVENTEEN MILE ROCKS, QLD, AUSTRALIA, 4073

## Registrant

Amerex Fire Australia Pty Limited  
2A Staple Street, SEVENTEEN MILE ROCKS, QLD, AUSTRALIA, 4073

### Producer

Amerex Corporation  
7595 Gadsden Highway, TRUSSVILLE, ALABAMA, UNITED STATES, 35173-0081

## Conformance criteria and evaluation

The Amerex, KP series, wet chemical type, pre-engineered, restaurant fire suppression system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. SSL Appraisal Specification FAS-111, 'Wet Chemical Pre-Engineered Fixed Fire Suppression Systems for Restaurant Cooking Areas'.
2. Underwriters Laboratories Standard UL 1254, Edition 3, 4 February 2005, 'Standard for Pre-Engineered Dry Chemical Extinguishing System Units'.
3. Underwriters Laboratories Standard UL 300, 'Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking 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.

(Limitations/conditions of conformance continue)

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

- i. Applicable only to those Amerex, KP series, wet chemical type, pre-engineered, restaurant fire suppression systems that have been designed, installed, operated, and maintained, in accordance with the system's AMEREX, KP, Wet Chemical Type, Restaurant Pre-Engineered Fire Suppression System Design, Installation, Maintenance & Recharge Manual No. 12385; Rev. A, dated October 2003 and AMEREX, "Zone Defense", 3.75 Gallon, Restaurant Pre-Engineered Fire Suppression System, Design, Installation, Maintenance & Recharge Manual No. 16640; dated August 2003.
- ii. All components must be installed in an environment that does not exceed the systems temperature range listing of 32°F - 120°F (0°C - 49°C).
- iii. **High Pressure Hose** - 1/4" I.D. wire braid hose is factory supplied. Maximum length (including all fittings) - 16.46 m or a maximum number of P/N 12854 hose assemblies is 40 or 20 hose assemblies P/N 16448.
- iv. **Copper Tubing** - 1/4" O.D. Refrigeration Type - minimum wall thickness - 0.049 in. Use with brass or steel compression style fittings. Maximum length (including all fittings) - 30.48 m.
- v. **Pipe** - 1/4" NPT Schedule 40 made of stainless steel, chrome plated pipe or black iron pipe. Maximum length - 6.77 m

## Producer's description

Amerex, KP series, wet chemical type, pre-engineered, restaurant fire suppression system operates either automatically if actuated by a rupture in the pressurized thermal responsive tubing or manually if actuated by a manual pull station. Upon system discharge, the exhaust fans should remain on to aid dispersal of the liquid suppressant that results in cooling the plenum and duct. Any integral make-up or supply air should be automatically shut off along with all cooking appliances.

The system includes carbon steel agent-storage containers, container-restraint and -support brackets, manifold-support brackets, container-mounted piston-type agent release valves, stackable and side-mount type release actuators, flexible discharge bend assemblies, wrought-aluminium and brass agent nozzles, pressure switches for monitoring and interlocking, a manual pull station, a remote manual/pneumatic actuator, and various instruction and warning signs.

The system agent is Amerex KP liquid fire suppressant, is a potassium acetate based solution that suppresses cooking grease fires both through saponification and cooling. The Agent has a pH of 9 or less and does not harm stainless steel surfaces. It is stored in the mild steel DOT 4BW 240 specification cylinder, tested to 480 PSI (3309 kPa). The agent cylinder/discharge valve assembly is fully factory charged with Amerex KP liquid agent and pressurized to 240 PSI (1655 kPa). Nozzles, wet chemical agent, expellant-gas cartridges, fusible-link fire-detectors, wire-rope cable, pulley tees, and pulley elbows, are supply in separate packages in the quantities needed for each chosen fire suppression system arrangement. The detection network uses a continuous run with detectors specifically listed for use with Amerex, KP series, wet chemical type, pre-engineered, restaurant fire suppression system. No "S" hooks are allowed. The actuation cylinder is filled with 10 cu. in. of nitrogen and has an integral pressure gauge which allows easy field verification of pressure. This cylinder is capable of being refilled in the field by an authorized Amerex KP System Distributor. The Amerex System agent storage cylinders and cartridge shall not be installed in environments below 32°F or above 120°F (0°C to 49°C).

## Technical specification

The following details are a representative extract of the technical specification for the Amerex, KP series, wet chemical type, pre-engineered, restaurant 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.

The components that have been evaluated and form part of the listed system include the following:

Amerex part num.	Description
12866	AMEREX KP Liquid Agent, 3.75 US gallons (19.277 kg)
15416	AMEREX KP Liquid Agent, 6.14 US gallons (29.71 kg)
13334	Agent Cylinder Assembly - KP375, 3.75 US gallons (14.2 L)
16085	Cylinder Mounting Bracket
13069	Distribution Hose
15196	Agent Cylinder Assembly - KP600, 6.14 US gallons (23.2 L)
15060	KP600 Cylinder Valve Assembly
15166	KP600 Cylinder Mounting Bracket
10199	KP600 Discharge Fitting Kit

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Amerex part num.	Description
15157	KP600 Pneumatic Actuator
11977	Mechanical Release Module (MRM)
16547	Pneumatic Release Module (PRM)
16551	Detection Tubing - 1/4" diameter; 50'
16552	Detection Tubing - 1/4" diameter; 150'
16554	Detection Tubing - 1/4" diameter; 300'
16506	End of Line Fitting
16501	Tubing Support Clip
12856	Nitrogen Actuation Cylinder
12853	Enclosure - MRM; Painted
13393	Enclosure - MRM; Stainless Steel
11978	Cabinet
12854	Actuation Hose - 16"
16448	Actuation Hose - 32"
13729	Discharge Nozzle - Fryer/Griddle
11983	Discharge Nozzle - Solid Fuel Charbroiler
11984	Discharge Nozzle - Upright Broiler
11982	Discharge Nozzle - Appliance & Plenum
14178	Discharge Nozzle - Range (4 Burner)
16416	Discharge Nozzle - Duct Nozzle
16440	Nozzle Swivel Adapter
12334	Nozzle Cap - Standard
12504	Nozzle Cap - High temperature
12508	Detector
12891	Test Links
12309	Corner Pulley
16444	Corner Pulley
12506	Pulley Tee
12553	Cable
12507	Conduit Offset
12326	Fusible Link - 212F (100°C)
12327	Fusible Link - 280F (138°C)
12328	Fusible Link - 360F (182°C)
12329	Fusible Link - 450F (232°C)
11993	Manual Pull Station
14193	Manual Pull Station Adapter Kit
14320	Manual Pull Station (Oversized)
12276	"Quick-seal" Adapter - 3/8" pipe
14204	"Quick-seal" Adapter - 1/2" pipe
12510	"Compression seal" Adapter - 3/8" pipe
12512	"Compression seal" Adapter - 1/2" pipe
16502	"Quick-seal" Compression Fitting
12790	Mechanical Gas Valve - 3/4"
12791	Mechanical Gas Valve - 1"
12792	Mechanical Gas Valve - 1 1/4"
12793	Mechanical Gas Valve - 1 1/2"
12794	Mechanical Gas Valve - 2"
12870	Electrical Gas Valve - 3/4"
12871	Electrical Gas Valve - 1"
12872	Electrical Gas Valve - 1 1/4"
12873	Electrical Gas Valve - 1 1/2"
12874	Electrical Gas Valve - 2"
12875	Electrical Gas Valve - 2 1/2"
12876	Electrical Gas Valve - 3"
12526	Manual Reset Relay
13622	Mechanical Gas Valve Kit
13777	ASCO Mechanical Gas Valve - 3/4"
13778	ASCO Mechanical Gas Valve - 1"
13779	ASCO Mechanical Gas Valve - 1 1/4"
13780	ASCO Mechanical Gas Valve - 1 1/2"

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Amerex part num.	Description
13781	ASCO Mechanical Gas Valve - 2"
13782	ASCO Mechanical Gas Valve - 2 1/2"
13783	ASCO Mechanical Gas Valve - 3"
55598	ANSUL Mechanical Gas Valve - 3/4"
55601	ANSUL Mechanical Gas Valve - 1"
55604	ANSUL Mechanical Gas Valve - 1 1/4"
55607	ANSUL Mechanical Gas Valve - 1 1/2"
55610	ANSUL Mechanical Gas Valve - 2"
12524	Micro switches
10173	Vent Plug
16085	Installing the KP375 and Agent Cylinder Bracket
13334	Installing the KP375 Agent Cylinder Assembly
15166	Installing the KP600 Agent Cylinder Bracket
10199	Installing the KP600 Discharge Fitting Kit
15196	Installing the KP600 Agent Cylinder
15157	Installing the KP600 Pneumatic Actuator
16501	Tube Clip
16506	End of fitting
16502	Quickseal Fitting 1/4"
16226	Job Link 286F (141°C)
16227	Job Link 360F (182°C)
16445	Job Link 450F (232°C)
16446	Job Link 500F (260°C)
13023	"Commissioning Checklist"
16546	Design and Installation manual, Pneumatic Release Module, June, 2003
16640	Design, Installation, Recharge and Maintenance Manual, AMEREX "Zone Defense" 3.75 Gallon Restaurant Fire Suppression System (Tested and Listed by UL to UL Standard, EX 4658), August 2003
12385	Design, Installation, Recharge and Maintenance Manual, AMEREX KP Restaurant Fire Suppression System (Tested and Listed by UL to UL Standard, EX 4658, and Tested and Listed by ULC to ULC/ORD 1254.6 - 1995) REV. A, October 2003