

## Plumis Declaration of Testing and Conformity with applicable Standards (Automist Smartscan)

### Product Description:

Automist Smartscan Pump unit – enclosed high-pressure pump and electronic control unit with water inlet and outlet, indicating LEDs, STOP button, power supply cable, alarm input NO/NC/C wires, stop button loop and 5 core communication cable. Product Code: AP04

Smartscan Spray head – Extruded aluminium frame, machined billet stainless steel inlet spigot, spray head and nozzle with custom brushed stainless steel faceplate. Custom electronics control with a thermopile Infra-red sensor. Product Code: SH07

Accessories – low pressure stainless steel water inlet hose, high pressure PE water outlet hose, backflow prevention valve, inlet water filter, pressure gauge connection tip.

Complete details of the components found in an Automist Smartscan kit can be seen in the Automist Smartscan Handbook.

### CE Mark List of Standards Applied



#### To meet Low Voltage Directive, 73/23/EEC & FCC requirements

#### Third party testing carried out by: Element

BS EN 55014-1 Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 1: Emission (+A1 +A2)

BS EN 61000-3-2 Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)

BS EN 61000-3-3 Electromagnetic compatibility (EMC) -- Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems

BS EN 61000-4-2:2009 Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrostatic discharge immunity test

BS EN 61000-4-3:2006+A2:2010 Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio-frequency, electromagnetic field immunity test

BS EN 61000-4-4:2012 Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrical fast transient/burst immunity test

BS EN 61000-4-5: 2014 Electromagnetic compatibility (EMC). Testing and measurement techniques. Surge immunity test

BS EN 61000-4-6: 2014 Electromagnetic compatibility (EMC). Testing and measurement techniques. Immunity to conducted disturbances, induced by radio-frequency fields

BS EN 61000-4-8:2010 Electromagnetic compatibility (EMC). Testing and measurement techniques. Power frequency magnetic field immunity test

BS EN 61000-4-11:2004 Electromagnetic compatibility (EMC). Testing and measurement techniques. Voltage dips, short interruptions and voltage variations immunity tests

BS EN 50130-4:2011 Electromagnetic Compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems

CISPR16-2-3:2006 (EN 61000-6-3 limits) Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements

CISPR 16-2-1:2008 (EN 61000-6-3 limits): Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements

## **To comply with the Water Supply (Water Fittings) Regulations or Scottish Byelaws**

### **Third party verification carried out by: Kiwa Ltd**

WRAS (Water Regulatory Advisory Scheme) Approved

Certificate no.1102330    The product is WRAS approved for connection to the water supply.

## **To demonstrate fire performance**

### **Third party testing carried out by: Exova Warringtonfire**

BS 8458:2015 Fixed fire protection systems – Residential and domestic watermist systems – Code of practice for design and installation (all tests, including optional open room for spaces up to 80m<sup>2</sup>)

BS 9252:2011 Components for residential sprinkler systems. Specification and test methods for residential sprinklers (all tests)

BS EN 5839-6:2004 Fire detection and fire alarm systems for buildings — Part 6 (for the use and placement of the of-the-shelf detection system used to trigger Automist)

## **To demonstrate product robustness and reliability**

### **Third party testing carried out by: Exova Warrington (fire tests only, all other in-house)**

UL 2167 Water Mist Nozzles for Fire Protection Service (for component reliability tests)

BS 9252:2011 Components for residential sprinkler systems. Specification and test methods for residential sprinklers (for “fire under nozzle” scenarios)

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## RoHS and WEEE

All Automist Smartscan components are all compliant to RoHS (Restriction of the Use of Certain Hazardous Substances) in Electrical and Electronic Equipment (EEE) Directive (2011/65/EU). Electronic product assembly codes for which RoHS is applicable are: 0088\_\*\*, 0092\_\*\* and 0116.

Plumis is WEEE (Waste Electrical and Electronic Equipment Regulations 2013) registered under the Unique Producer no. WEE/JC4488SX and contributes to the safe recycling and disposal of our products at their end of life.

## Production Control

Automist pumps and Smartscan heads are 100% tested to validate for electrical and electronic integrity and operation; water flow; over-pressure safety switch operation and correct operation of controls, actuators and sensors. Each carries a serial number which is logged in production and also by the installer on site so that they are fully traceable.

## Continuity of Design

When installed according to Plumis guidelines by an accredited installer, Automist Smartscan is declared to be equivalent or superior in performance to the samples tested in all key characteristics, including the following:

- Speed of activation
- Output pressure
- Flow rate
- Effective spray range
- Reliability and continuity of operation



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William Makant - Managing Director