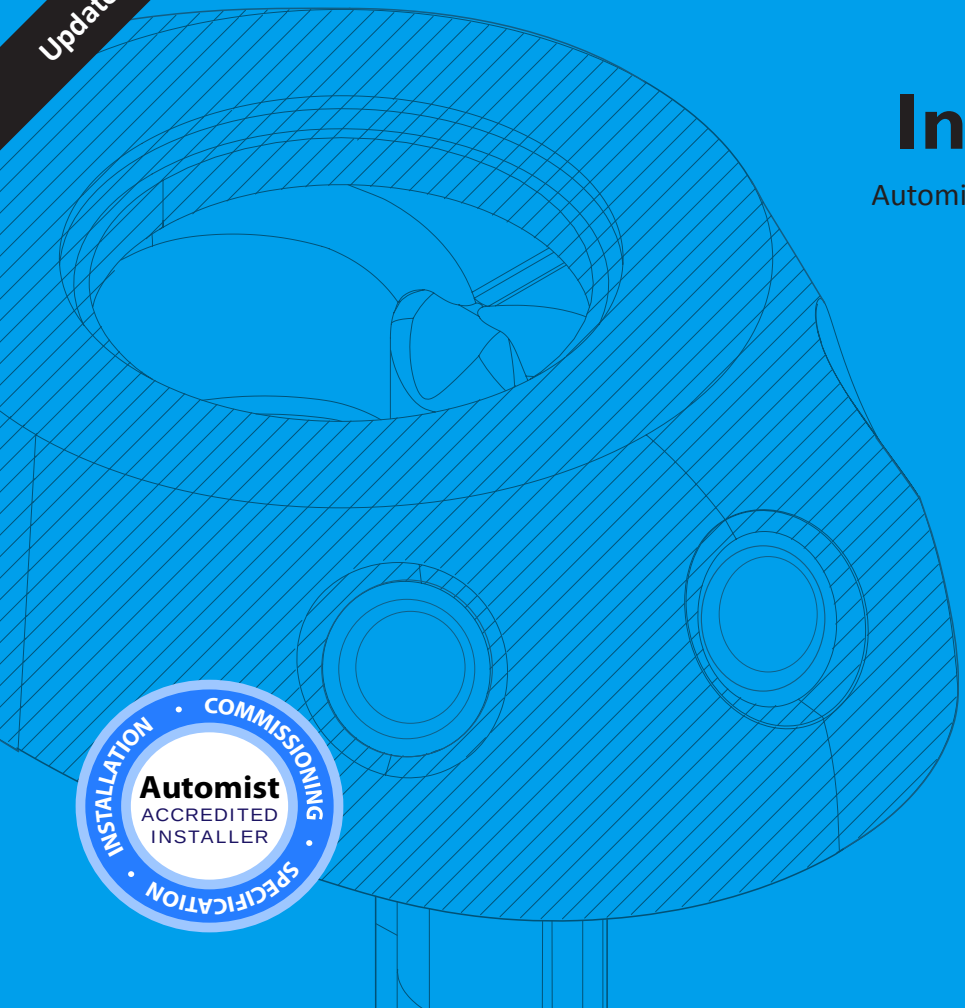
Updated v6.0

Automist™ Installer Manual

Automist should be installed and commissioned by an Accredited Installer.



INSTALLATION • COMMISSIONING • SPECIFICATION •

Automist
ACCREDITED
INSTALLER

Plumis Ltd.
Seamless Fire Protection
www.plumis.co.uk

CONTENTS

INTRODUCTION

CAUTION:

1. Read all of these instructions.
2. Retain this guide for later use.
3. Follow all warnings, cautions and instructions contained in this guide.
4. Automist requires recommissioning at least annually to provide effective protection.
5. When this product has reached the end of its serviceable life, it should be disposed of in a safe manner.
6. The content in this manual may differ from the product and is subject to change without prior notice.

IMPORTANT:

Once installed, complete and submit an installation and commissioning form to Plumis.

WARNING:

To avoid hazards, all installation procedures and maintenance must be supervised by an Accredited Automist Installer.

INSTALLATION REQUIREMENTS

Before installing ensure that the following have been provided at the installation site:

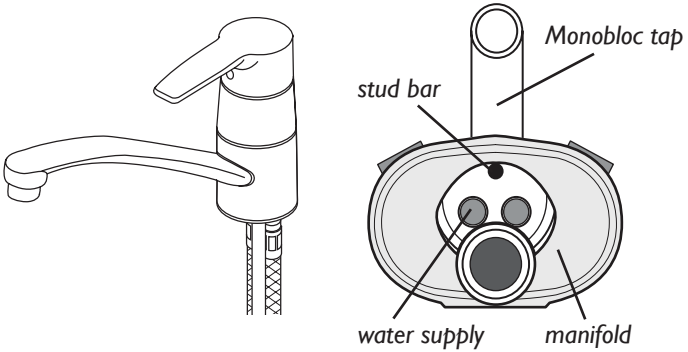
- Sufficient space to install the pump in accordance with these installation instructions. The pump is 385 mm (height) by 216 mm (length) by 151 mm (width) and weighs 6.0 kg.
- The system may not operate correctly if a clearance of 100 mm is not left at both the front and rear of the pump. If the pump is to be housed in a volume of less than 0.124 m^3, Plumis-approved ventilation holes must be provided.
- A 3/4" water supply (washing machine connection) with an approved isolation valve located inside the cupboard and positioned so that the connection point will not be obstructed when the pump is installed (see page 21).
- A cold water supply which can deliver 6 litres per minute flow at a minimum of 1 bar (100kPa) and a maximum of 10 bar (1MPa) flow (dynamic) pressure. Automist requires a reliable water supply in a constant state of readiness. If multiple Automist units are to operate simultaneously, a proportionately higher flow will be required
- A dedicated electrical supply circuit in FP200 cable, as specified in the preparing the site section (see page 13).
- If the consumer unit is located in the protected area it should be protected by an electrical cover unit tested to BS476 Part 22 (1987) and EN1364-1 (1999).
- Flexible high pressure hoses should be mounted as close to the ground as possible and within the wall. For cases where the hose is exposed, conduit sleeves must be used. Where the hose is surface mounted more than 1.2m from the floor in a protected room, or where the hose passes above/within the ceiling of a protected room, a suitable thermally insulating sleeve may be required. Contact Automist technical support for more details.
- Operating ambient temperature: above 0°C.

1) Tap Compatibility

Automist has been designed to be compatible with the majority of monobloc taps (45 – 60 mm diameter base) that fit into a standard 35 mm sink or work surface hole.

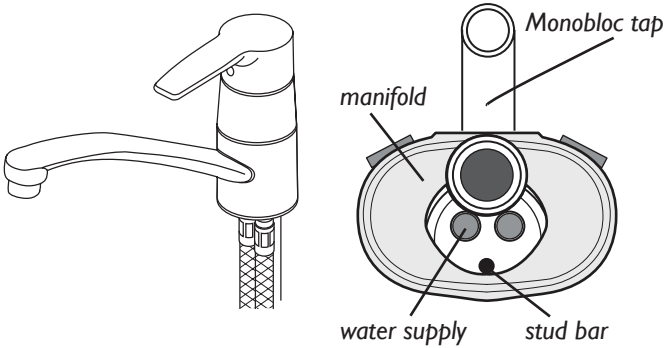
Monobloc taps are affixed to the worktop using a stud bar, which may be at the front or rear of the tap dependent on the tap model:

a) Front stud configuration - Automist with active nozzles on the front of the manifold under a tap with a front facing stud bar



Water inlet connections at the back and the stud bar at the front

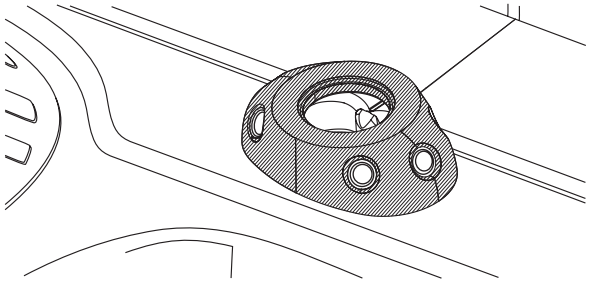
b) Rear stud configuration - Automist with active nozzles on the back of the manifold under a tap with a back facing stud bar



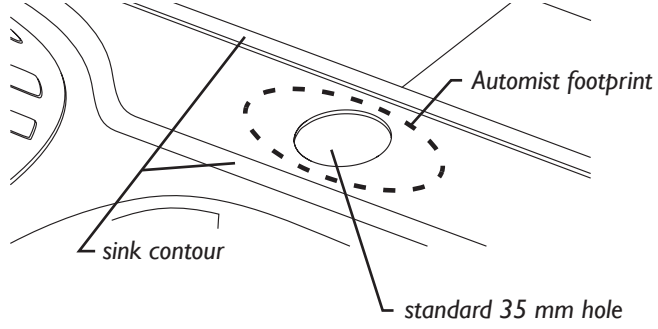
Water inlet connections at the front and the stud bar at the back

Automist is compatible with either tap configuration but manifold must be configured to suit. Monobloc taps which have two studs, instead of one, at either the front or the back can also be used with either configuration.

The Automist tap head fits over a standard 35 mm hole.



Ensure your selected sink or work surface has sufficient clearance around the hole so that the head can mate uniformly with the surface. A scale drawing of the Automist head's footprint can be downloaded at www.plumis.co.uk/A4footprint.pdf



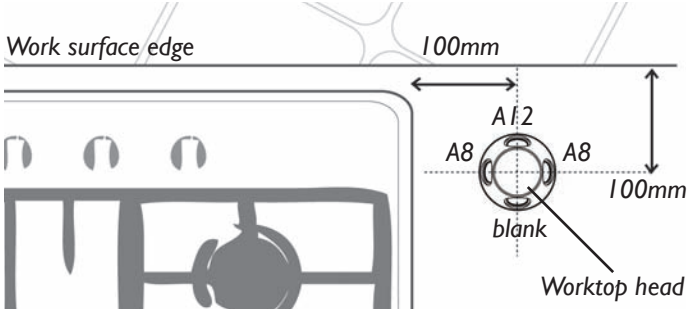
2) Work Surface Compatibility

Automist can be installed on a flat work surface.

IMPORTANT:

The head must be positioned at least 100mm from the edge of the work surface. 750mm clearance must be provided adjacent to each of the active nozzle and 100mm clearance provided around the head. The standard nozzle positions should be orientated parallel and perpendicular to the work surface edge. A standard three nozzle setup is an A12 pointing into the room centre and two A8s parallel to the work surface.

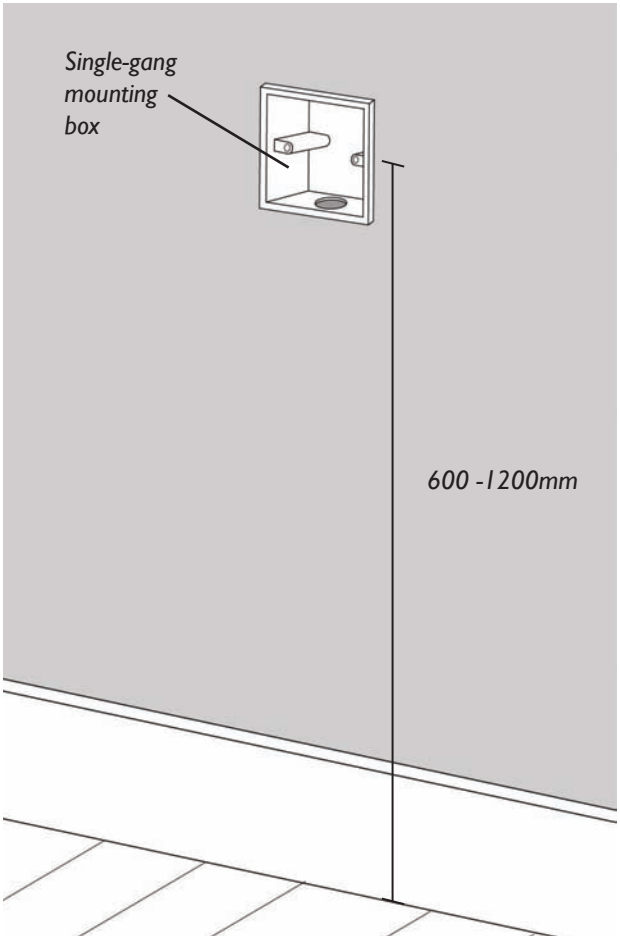
Aerial view:



3) Wall Mount Compatibility

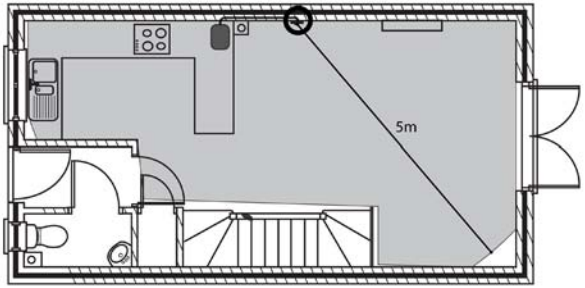
The Automist wall mount kit is designed to be affixed to a standard 50mm deep single-gang mounting box (85mm x 85mm with fixing centres offset centre to centre by 60mm).

> ⚠ **IMPORTANT:**
>
> The Automist head must be located where the spray pattern will not be obstructed and 750mm clearance is provided adjacent to each of the active nozzles. The nozzles must be installed between 600-1200mm from the ground.



4) Room Compatibility

A single Automist pump unit was tested by BRE in an area of up to 32 square metres (2.5m ceiling height) with fire hazards up to 5m away. The spray head should therefore be within 5m of and in the approximate line of sight of any possible fire hazards.



Small potentially blocked or shadowed floor areas shall be permitted on a horizontal plane in compartments of 64 m^2 (two pump units) or less as long as the total area of all individual contiguous shadowed floor areas, regardless of geometric configuration, does not exceed 2 m^2.

⚠ IMPORTANT:

Do not install Automist outside this specification without first discussing the design with Plumis. Installing Automist outside these guidelines without properly documenting and agreeing such variations could make you responsible for deaths or injuries.

The maximum ceiling height must not exceed 5m.

More information on Automist's appropriateness for a given space is available. Please refer to our technical area online or contact our technical team.

5) Detection System

Automist's reliability is dependent on the detection system. The system is designed to be triggered by a correctly installed, positioned, and CE marked, heat alarm or fire panel.

- Any wired or wireless fixed-point heat alarm that offers a normally-open relay output may be used.

If a normally closed terminal is not provided by the relay unit, the Automist pump must be customised by Plumis before shipping. A trigger point of 57 degrees approx. is recommended for normal use. It is also possible to add a wireless manual call point.

- In its default setting, Automist is programmed to run continuously for 30 minutes on activation. This is designed to prevent interruption of mist even if a heat alarm is damaged by extended exposure to fire.
- Where multiple Automist units are used, each must take its input from its own dedicated relay module e.g. the relay base of a heat alarm.
- Where multiple Automist units are used in a single space, the alarm system should activate all relay units in that space simultaneously. This can be achieved by interconnecting wired heat alarms or associating multiple wireless relay modules with one or more wireless heat alarms.
- Fire alarm panels can add Automist by connection to a relay output. If desired, SLAVE MODE can be ordered at time of purchase. This sets Automist to operate only while its alarm input remains active.

Plumis recommends the use of mains powered heat alarms with back-up batteries since they significantly increase the reliability of the detection system. Wireless battery powered heat alarms are an acceptable alternative when installing a wired alarm and relay causes unacceptable disruption and where a scheduled maintenance programme is in place. Alarms that use standard replaceable PP3 batteries are not recommended for consumer properties.

IMPORTANT:

Do not overlap house coding when connecting to Automist. Automist should use an independent detector/receiver pair to avoid false alarms after servicing or recoding.

Heat alarms should supplement smoke alarms which provide an early warning of fire.

DO NOT install heat alarms:

- Directly over the cooker, stove or oven.
- In areas with high humidity, like bathrooms or shower rooms, or areas to close to dishwashers or washing machines. Install heat alarms at least 3m away from these areas if possible.
- Adjacent to, or directly above, heaters, air-conditioning vents or ceiling fans.
- In an area where the temperature may fall below freezing or rise above 37°C.
- Near fluorescent lights. Electrical noise & flickering may affect the operation of the heat alarm.
- Closer than 300mm to light fittings.
- In such a position that it is difficult or dangerous to reach for testing or maintenance.
- Do not site the alarm in an area where water or other liquids may enter the alarm.

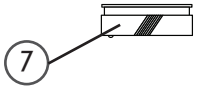
IMPORTANT:

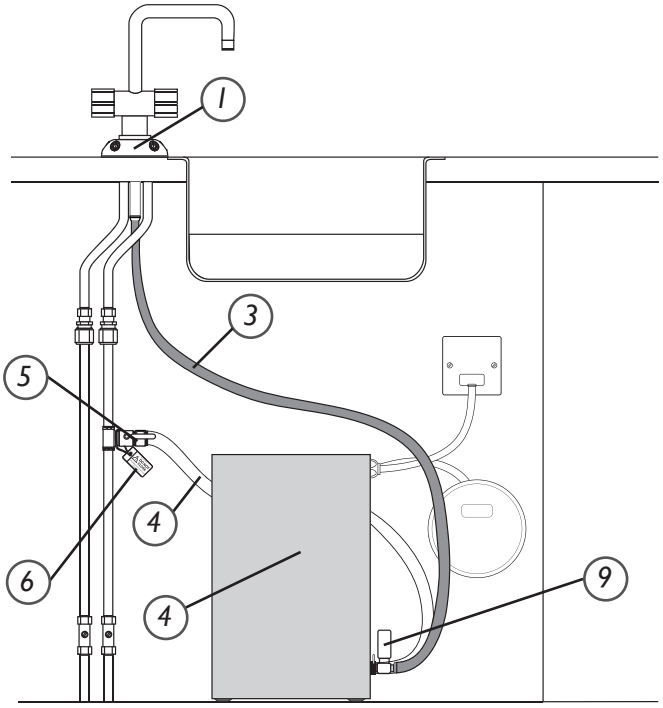
Ensure Automist is only connected to the main heat alarm(s) in the volume it protects. You can check these interconnections using the product's ALARM TEST MODE (see page 30). In this mode, the alarm lamp will light to indicate a functioning alarm input. Ensure that Automist has been successfully returned to the System OK state following this test, and that the water supply remains open, and the nozzles are unobstructed.

Please refer to BS 5839 for further information on the installation of heat alarms.

THE AUTOMIST SYSTEM

1. Assembled Automist head
   - Under tap kit
   - Surface mounted kit (includes blanking cap, not shown)
   - Wall mounted kit (not shown)
2. Automist Pump Unit
3. High pressure hose
4. ¾" stainless steel braided connection
5. ¾" single check valve
6. Automist supply label & cable tie
7. Heat alarm and relay base (not included)
8. Test shield (where applicable)
9. Commissioning gauge (where applicable)
10. Sticker set (not shown)
11. Tee piece (where applicable)





Example of an under tap kit installation

INSTALLATION PROCEDURE

A) Preparing the site

B) Configuring the spray head

C) Installing the Automist Head

D) Connecting the water supply

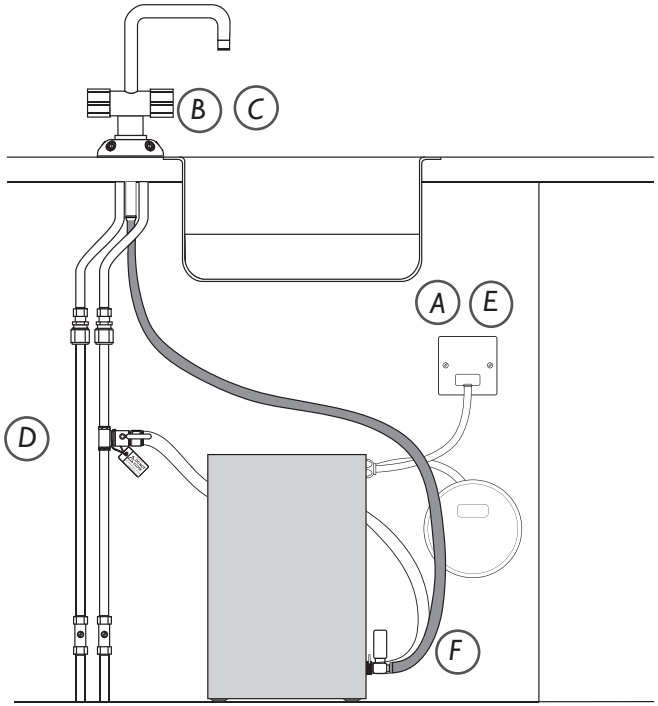
E) Connecting the electrics

F) Commissioning and maintenance

NOTICE:

Equipment you will need:

- Locking pliers, adjustable wrench
- A set of screwdrivers / an electric drill
- Electrical cable
- Stud extender or nut wrench
- A commissioning kit (gauge, nozzle tool)
- PTFE plumber's tape
- Wall mount only: A single gang wall mounting electrical box suitable for your wall type



Example of an under tap kit installation

A) PREPARING THE SITE

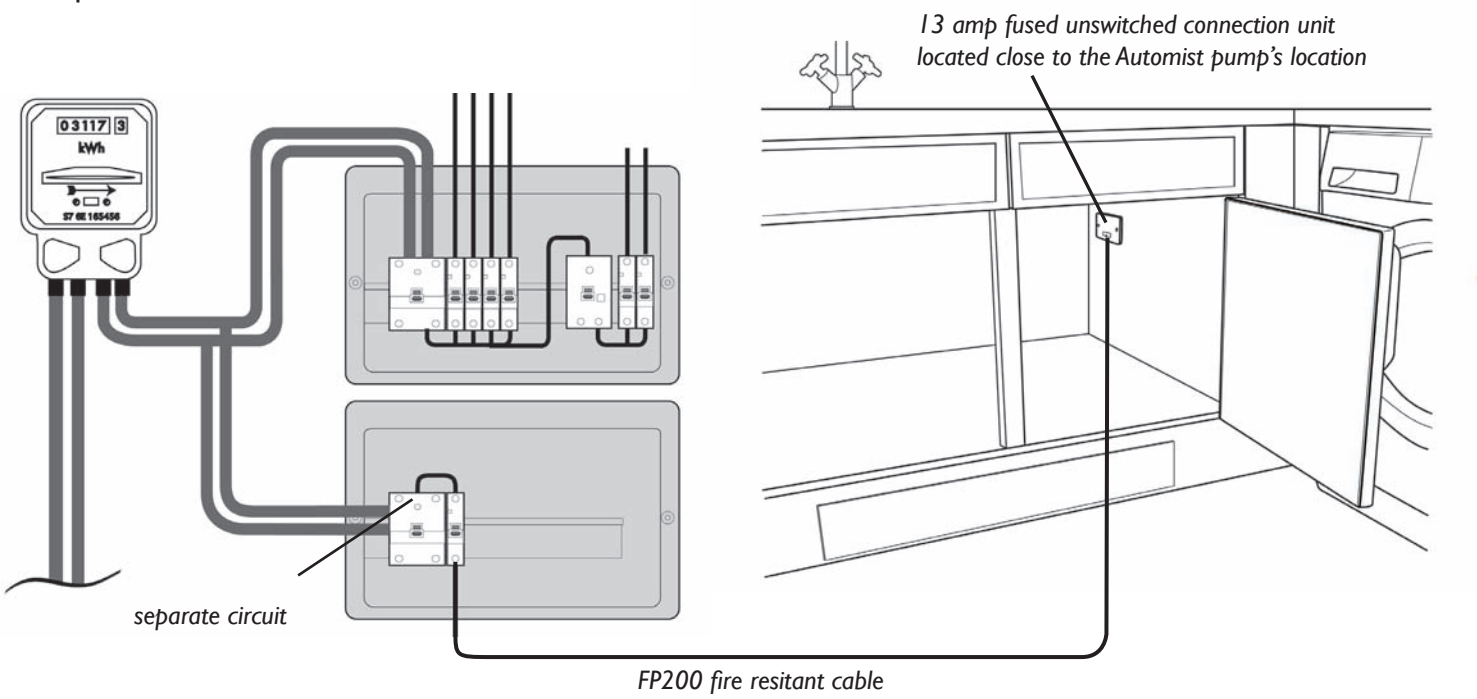
IMPORTANT!

Connecting the system to the mains requires a competent electrician with 17th Edition Electrical Qualifications. The Automist circuit should be clearly labelled (a sticker is provided for this purpose). Automist requires an independent 230V a.c. / 50Hz electrical supply, not shared with other devices. Components of the fire detection and alarm system may use this circuit, which must remain powered in the event of a fire. Power to Automist must be provided via an unswitched fused connection unit (FCU). Automist should be supplied using FP200 cable or better, ideally inside conduit or protected 50mm deep within a wall, and with no RCD or RCBO protection. RCD or RCBO protection may be required, however, by applicable electrical installation regulations, in which case the circuit design must be such that the operation of any other RCD, RCBO or safety device does not affect the operation of Automist. Typically, on a split-load board, Automist should be connected to the non-protected side of the board. Where there are no spare ways in the existing consumer unit, or there are no available non-RCD protected ways in the existing consumer unit, the electrician may wish to use a Henley Block to provide new tails to a second distribution board (typically a 2- or 4-way unit).

The Automist unit presents a part-inductive load and is therefore not suitable for type "A" or "B" miniature circuit breakers. Type "C" & "D" may be suitable. Because Automist is often used for life safety applications, installers should add a suitable safety margin to the MCB ratings. The circuit supplying a single Automist unit would commonly be protected by a type 'C10' MCB, for example, or 'C20' for two Automist units.

If the consumer unit is located in the protected area it should be protected by an electrical cover tested to BS476 Part 22 (1987) and EN1364-1 (1999).

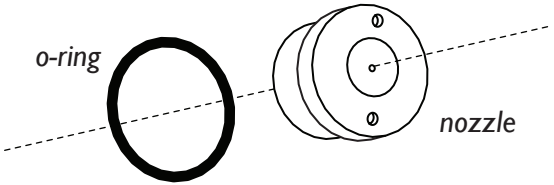
Example:



B) CONFIGURING THE SPRAY HEAD

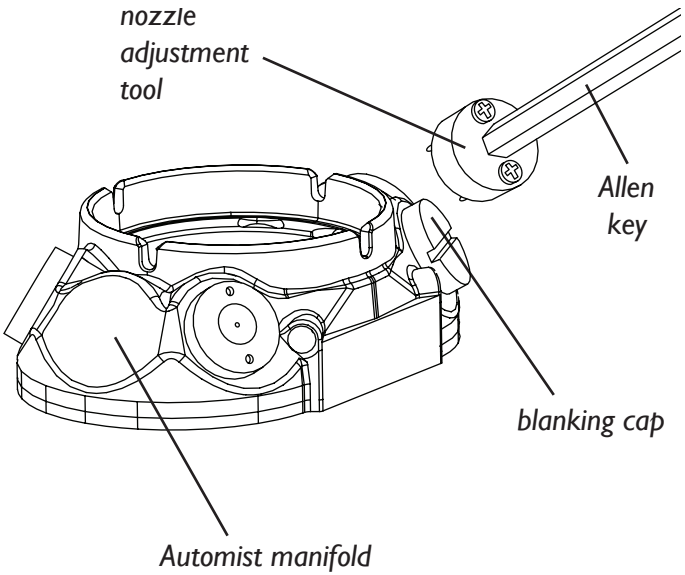
Only the Plumis technical team, a Fire Engineer or an Accredited Installer/Reseller can specify appropriate locations and configurations for Automist.

Whilst referring to the layout specification, adjust the nozzle configuration to suit the space. Use the nozzle adjustment tool provided with the commissioning kit to gently but firmly tighten each nozzle. Nozzle o-rings are provided to form a good seal at the interface. Silicone grease should be used for lubricating and preserving o-rings.



A standard flat head screwdriver should be used to fasten the blanking caps in place.

A nozzle adjustment tool is supplied in the commissioning kit.



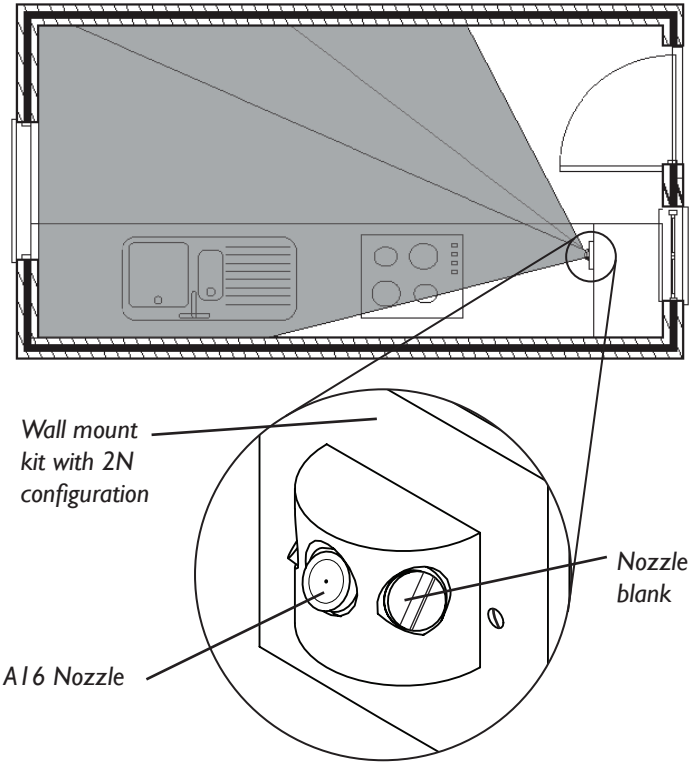
The table below shows the options of jets depending on the layout of the area to be protected. Nozzles can be used in 2 manifolds running off one pump as long as the same total number of nozzles is respected. Eg. 4 x A8 can also be 2 x A8 + 2 x A8 in 2 different manifolds.

Standard configurations:

Layout	Nozzles
6 nozzle spray (6N)	4 x A6 + 2 x A4
5 nozzle spray (5N)	2 x A8 + 2 x A6 + 1 x A4
4 nozzle spray (4N)	4 x A8
3 nozzle spray (3N)	2 x A12 + 1 x A8
2 nozzle spray (2N)	2 x A16

N.b. The lower the nozzle number, the lower the flow (litres per min)

In the narrow kitchen (below) a wall mounted unit is used to protect the space with a 2 spray configuration. The manifold is set up with 2 x A16 nozzles and 1 blank.



C) INSTALLING THE AUTOMIST HEAD

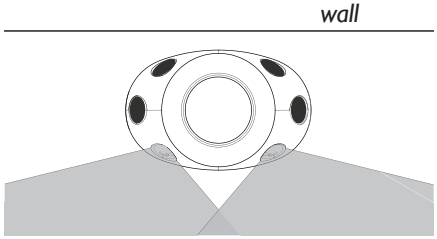
i) Under tap installation

Shut off the water supply and remove the existing tap from the sink assembly.

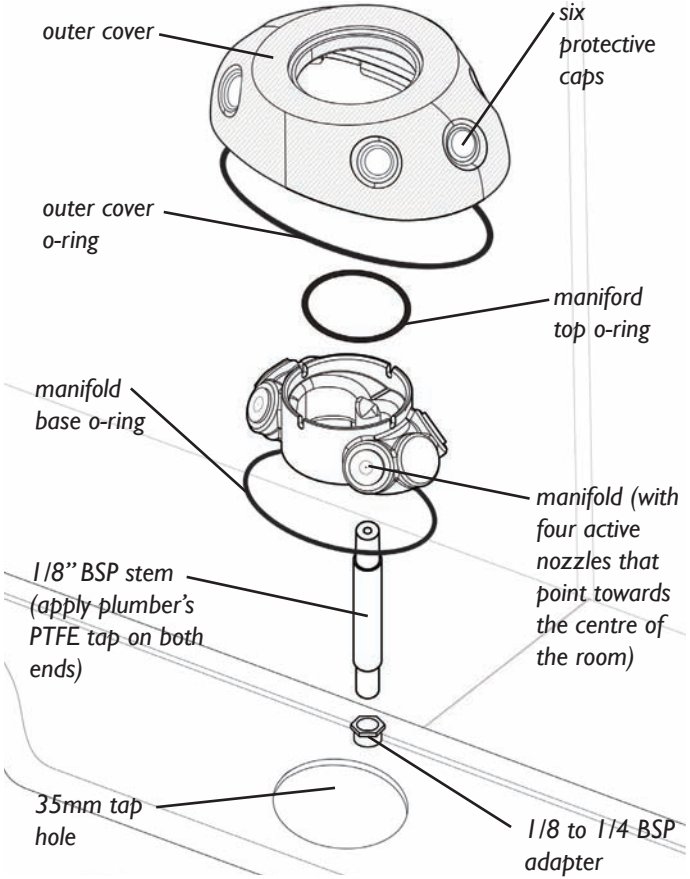
Place the assembled Automist head in the 35mm hole. Ensure the three o-rings are correctly placed to seal the unit.

IMPORTANT:

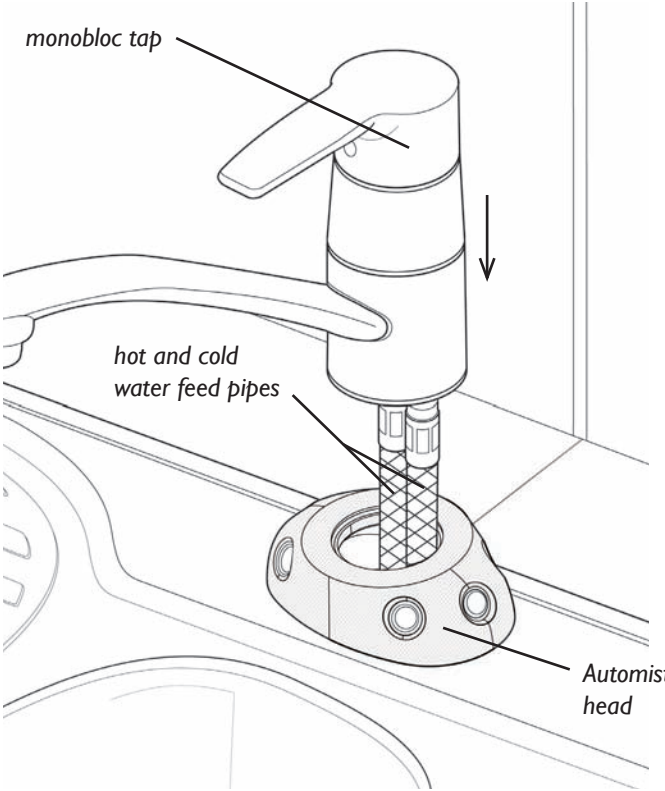
When installing an Automist head with four nozzles you must make sure the active nozzles are pointing into the room and not towards the wall.



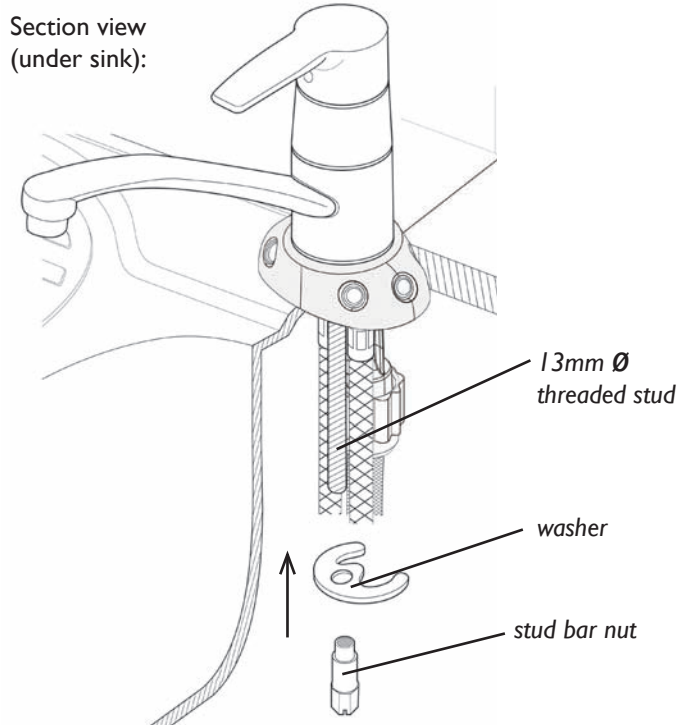
spray faces inwards into the room



Pass the hot and cold tap water feed pipes through the Automist head and connect them to your tap.

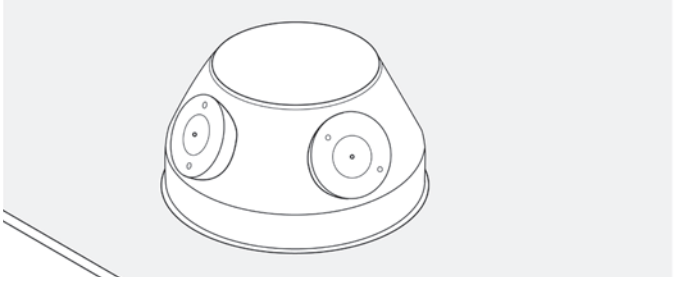


Screw in the stud bar and tighten the nut to clamp the Automist head and tap in place. Certain installations may require an extended stud bar. Ensure the tap and manifold are correctly aligned before tightening.

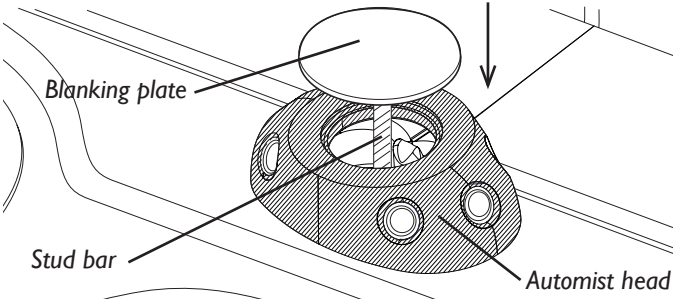


ii) Surface mount installation

A worktop head should be connected in a similar way to tap head. Screw in the stud bar and tighten the nut to clamp the Automist head in place.

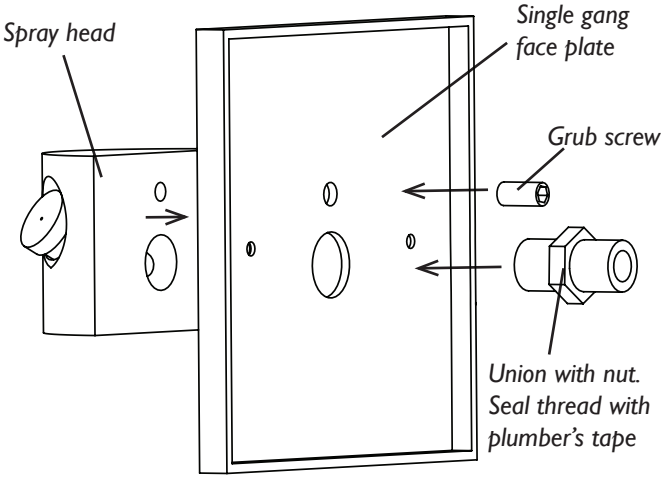


A worktop converter kit can be used to enable a tap head on a worksurface. Place the blanking plate on top of the Automist head and tighten the nut to clamp it to the surface.



iii) Wall mount installation

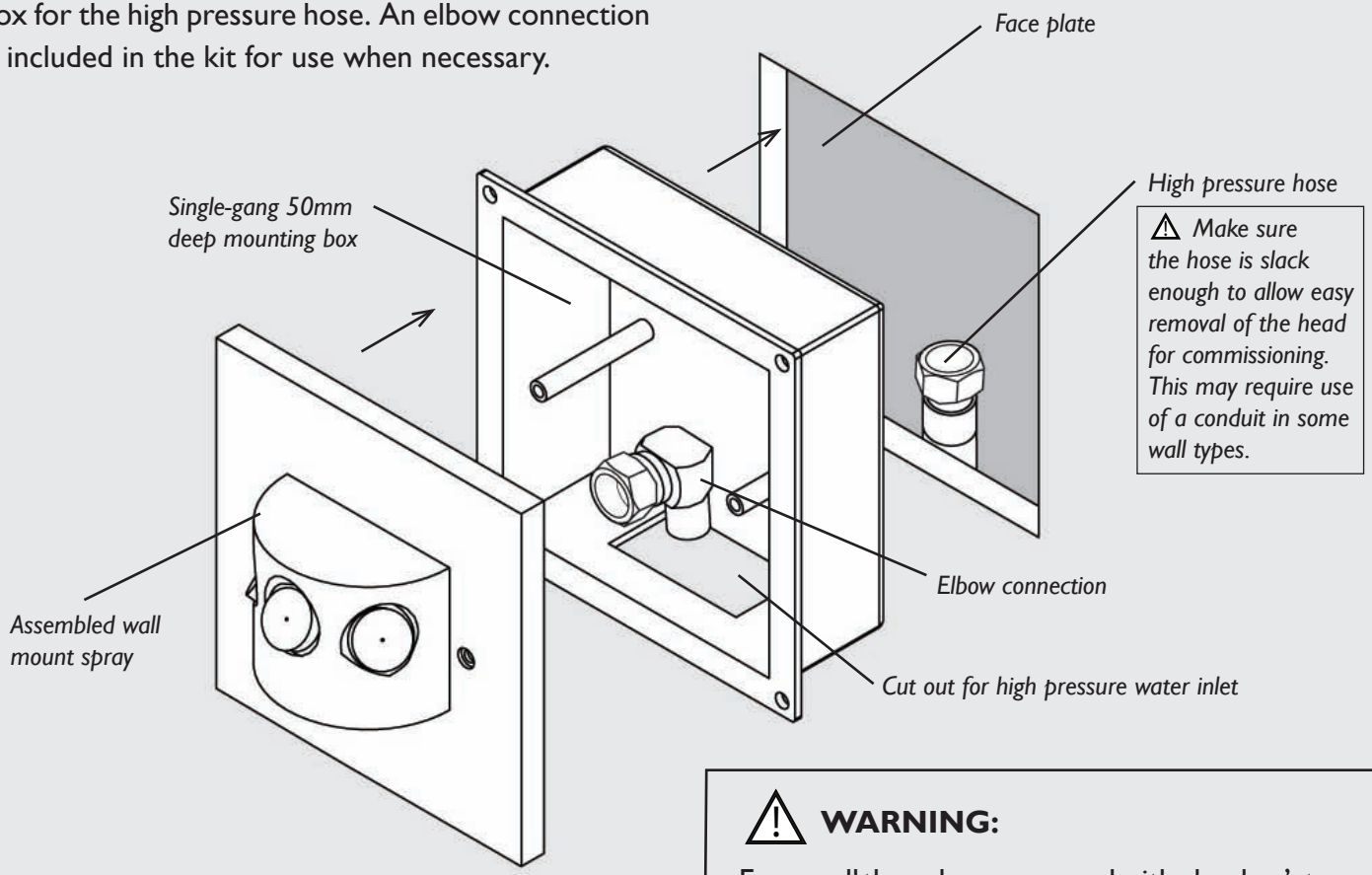
Assemble the spray head. In the correct orientation the grub screw is postioned above the union.



IMPORTANT:

Plumber's tape should be wrapped approximately three times around the hosetail threads to ensure a tight seal and to prevent leaks.

Cut a hole in the appropriate location of the mounting box for the high pressure hose. An elbow connection is included in the kit for use when necessary.



⚠ **WARNING:**

Ensure all threads are wrapped with plumber's tape.

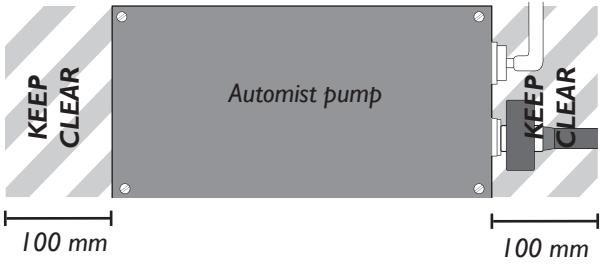
D) CONNECTING THE WATER SUPPLY

Position the pump unit as closely as possible to the mains water supply pipes.

WARNING!

Leave a 100 mm gap without obstruction at both the front and back of the pump. The unit must be housed in a volume of at least 0.124 m^3. **Do not cover the pump with any products or materials.**

Aerial view:

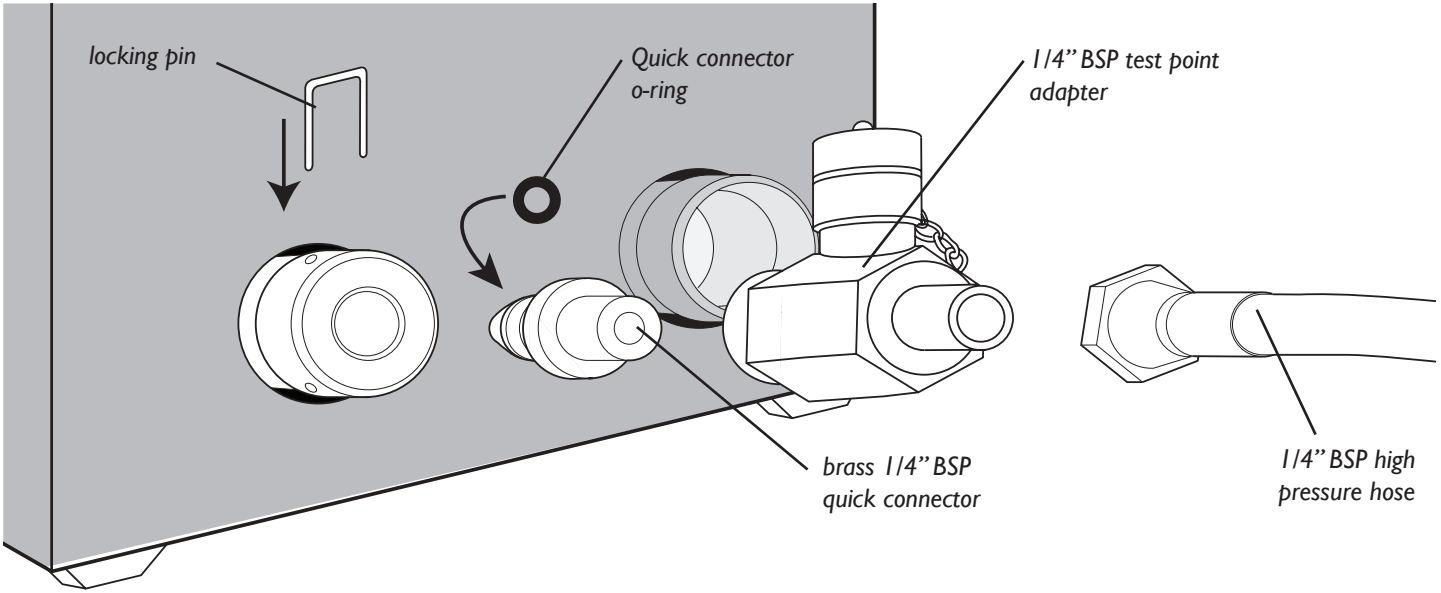


IMPORTANT:

If new pipe has been fitted remember to flush out any contaminants before connecting to Automist, to avoid clogging the nozzles.

Connect the high pressure hose from the assembled head to the outlet on the pump. All high pressure hose should have a minimum working pressure of 150 bar. High pressure hose left exposed in the protected volume, particularly at height, could be compromised in a fire. Hose should be shielded within the wall whenever possible and laid along the floor. If using a hose different from the one supplied, please contact the Plumis Technical Team for verification. The maximum hose length is 10m.

A brass quick connector and locking pin is supplied to connect the high pressure end of the pump. Connect the test point adapter between the high pressure hose and the quick connector. The test point adapter is required as part of the commissioning procedure (see page 31).

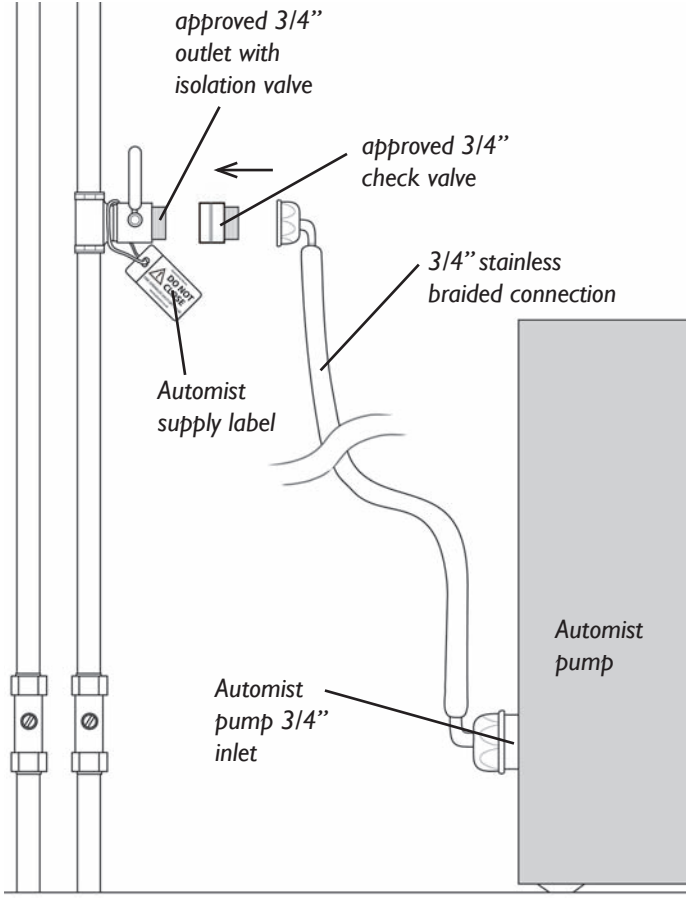


IMPORTANT!
Use PTFE tape to help seal all male threads and ensure the cap on the test point adapter is screwed close.

The Automist pump unit should be housed close to a 3/4" water supply with an approved isolation valve to the check valve. A synthetic rubber washer is supplied with each device to facilitate fitting to the flat-faced outlet.

> ⚠ **WARNING!**
>
> **To comply with water regulations, an approved isolation valve must be used when connecting the check valve to the mains.** A cable tie is provided to tie the Automist supply pipe label to the isolation valve. The warning label must be visible but must not obstruct isolation valve operation.

A tee piece can be used to connect two spray heads to a single pump. Secure all male connections with PTFE plumber's tape. When using such a splitter, ensure the nozzles used are selected appropriately (see page 16).



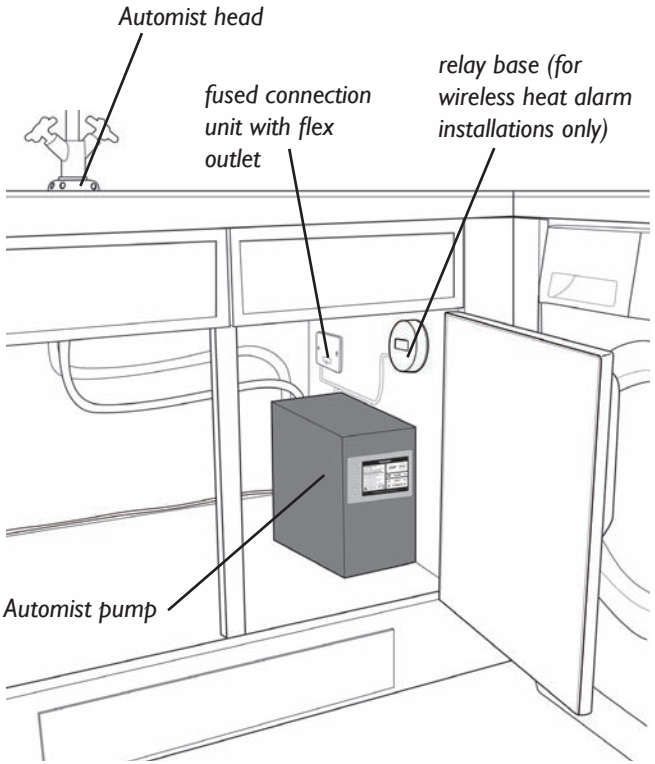
E) CONNECTING THE ELECTRICS

IMPORTANT!

The Automist pump should be positioned in a safe and dry location where it is easily accessible, the button will not be pushed accidentally, and the front panel remains visible when the access door is open.

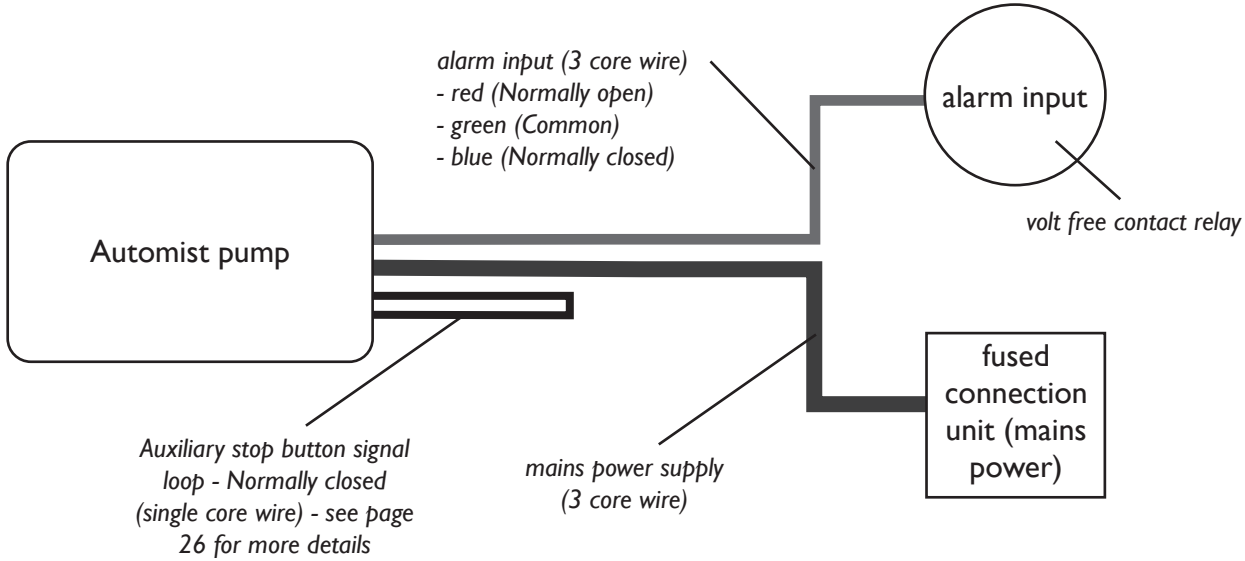
For installations that require a wireless relay receiver, position the relay base on the wall next to the Automist pump unit in location as close as possible to the front of the cupboard door.

View of the system upon installation completion (under sink):



IMPORTANT! Connecting the power to the electrics requires a suitably qualified & competent person. **Switch off electricity at the mains before working on existing circuits**.

Standard installation:

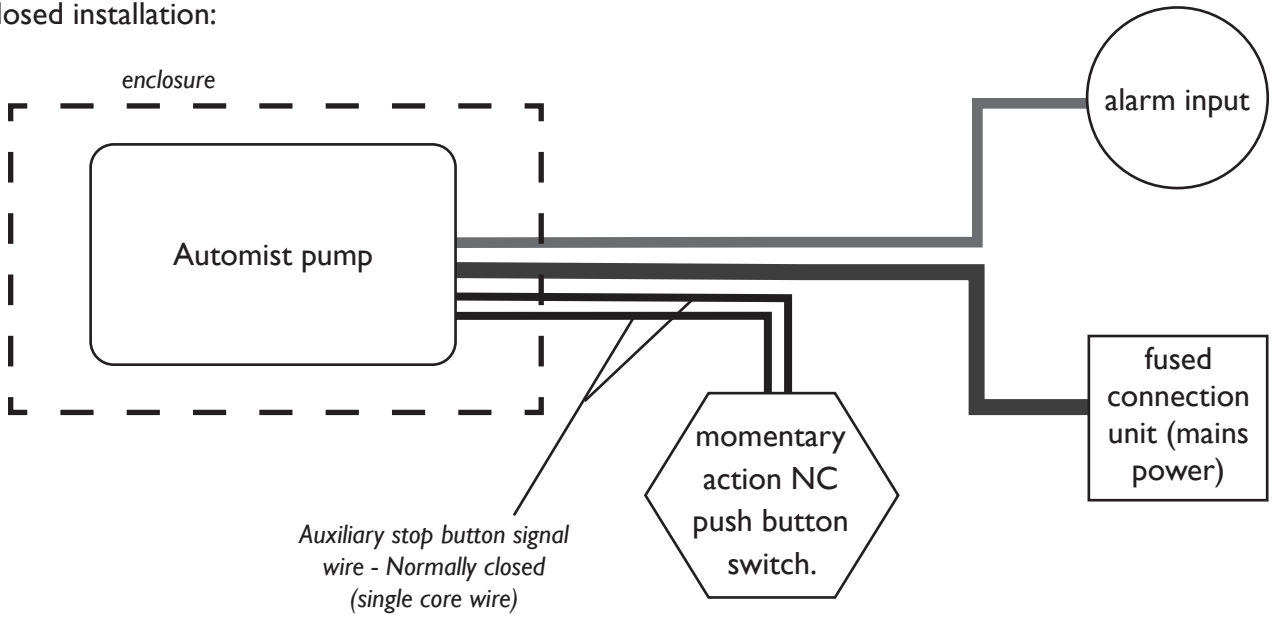


IMPORTANT! The relay should be set to continuous, not pulse mode. Follow the electrical specification requirements on page 13.

The auxiliary stop button signal loop should only be cut when the pump is installed enclosed in a space where the stop button is inaccessible. Each end of the wire should then be connected via FP200 cable to a momentary action normally closed push button switch. The button should have an appropriate IP rating (e.g. IPX5 if used in the room protected by Automist), located as close to the pump as possible and should be clearly labelled.

Once installed the auxiliary button cannot be used to commission the unit but can be used to enter ALARM TEST MODE (see page 30).

Enclosed installation:



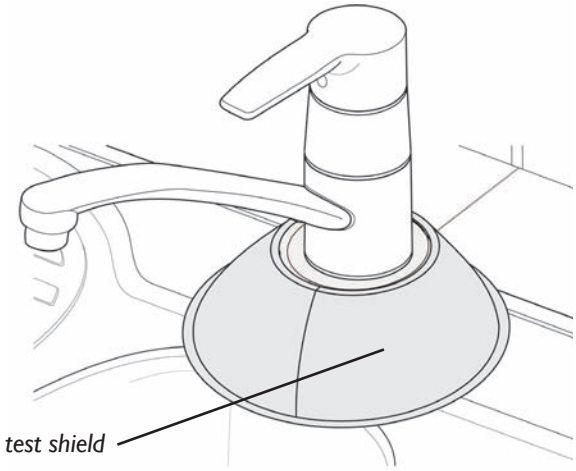
F) COMMISSIONING AND MAINTENANCE

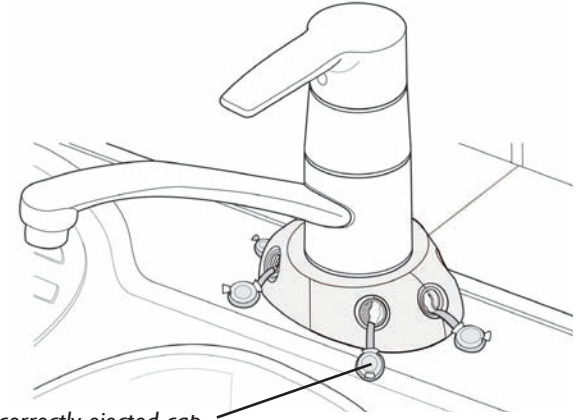
When Automist is powered up for the first time the yellow FAULT LED will indicate that the system has not been commissioned. Commissioning is a simple programmed procedure which allows Automist to be tested. During commissioning, the pump runs for approximately 20 seconds and the output pressure is monitored. A rubber shield is provided to direct the resulting spray into the sink for under-tap installations.

IMPORTANT!

Commissioning is required:

- Once all the components of the system have been installed and the system is powered.
- As part of a yearly maintenance cycle
- If plumbing or construction work takes places, new alarms are installed or maintenance work occurs which could affect the system.
- Commissioning must be performed by an Accredited Automist Installer.



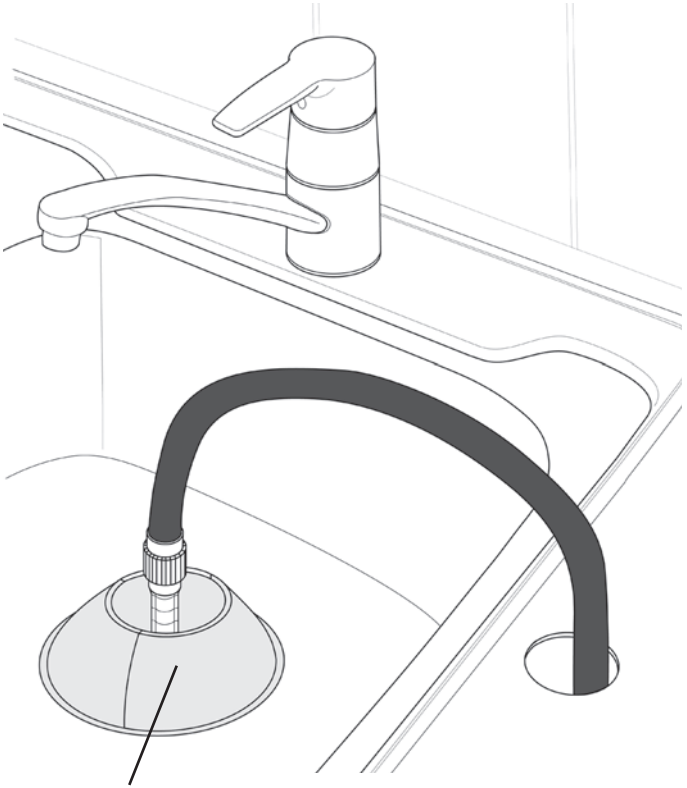


When the Automist head is installed on a flat work surface without a monobloc tap using a blanking plate (see page 19) it may not be possible to adequately contain the water emitted during the procedure.

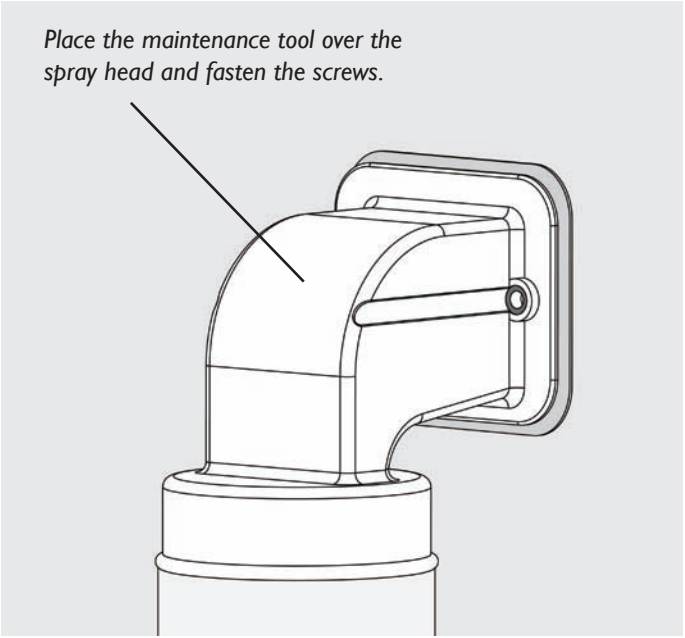
In these cases, release the blanking plate and remove the outer cover for surface mounted units only. Pull the connected Automist Manifold through the hole and place it in an adjacent sink or within a bucket. The test shield can then be placed around the upturned manifold during the test procedure.

⚠ WARNING!

Ensure you replace the spray head in its correct orientation with the active nozzles facing into the room centre once the unit is successfully commissioned.
Be careful not to snag the high pressure hose when pulling it through the mounting surface.



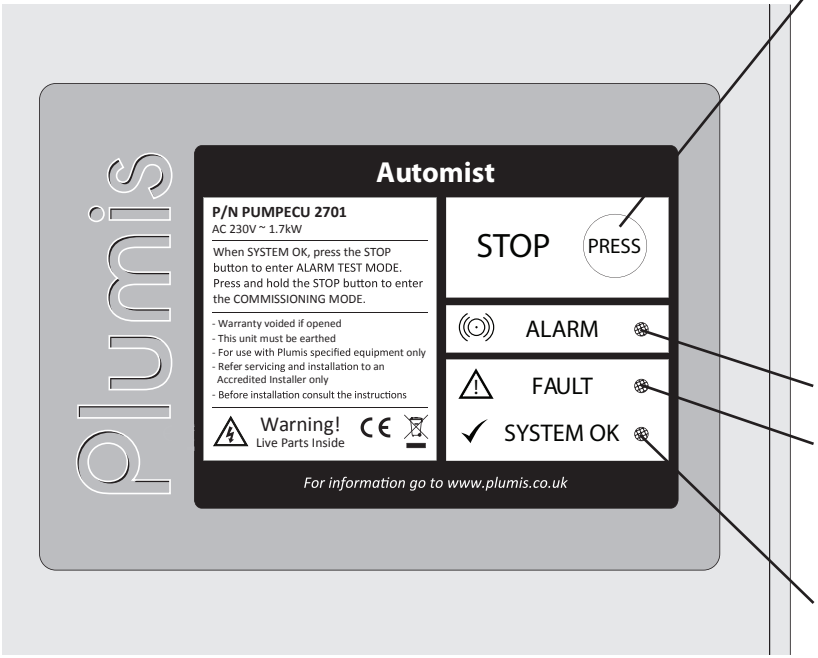
Remove the outer cover and ensure all the caps can be pushed open from the inside and none are missing. Place the connected manifold upturned in the sink or a bucket and cover with the test shield.



When the Automist head is wall mounted (see page 7), use the wall maintenance tool to prevent mist being sprayed into the room. Use the standard screws to fasten the tool in place and put a bucket under the hose during the test procedure.

If you do not have a wall maintenance tool, remove the single-gang plate. Pull the connected spray head through the hole and place it within a bucket. The manifold should be placed within a plastic bag during the test procedure. Be careful not to lift the pump or snag the high pressure hose when pulling it through the hole in the wall. When commissioning two spray heads running off a single pump, two people may be required (one to securely cover each head).

The Automist control panel



STOP Button: Pressing the STOP button during a fire condition will stop the Automist pump for 2 minutes. If at the end of 2 minutes, an alarm input remains active, Automist will recommence mist operation. If the alarm condition has ended, Automist will return to stand-by.

In error conditions, pressing the STOP button temporarily hushes the error sounds.

In the SYSTEM OK stand-by, the STOP button may be used to enter ALARM TEST MODE. In this mode you have a short time to test alarms in the home without activating Automist.

ALARM LED: Lit red to indicate an ALARM condition.

FAULT LED: Lit yellow to indicate a fault. Please refer to the troubleshooting guide. N.B. When Automist is powered up for the first time the yellow FAULT LED will be lit to indicate the system has not been commissioned

SYSTEM OK LED: Lit green when the system is OK and on stand-by.

IMPORTANT! Automist should never be left in a fault condition. Error LEDs indicate that the system requires attention and may not operate in the event of an alarm.

Commissioning Procedure

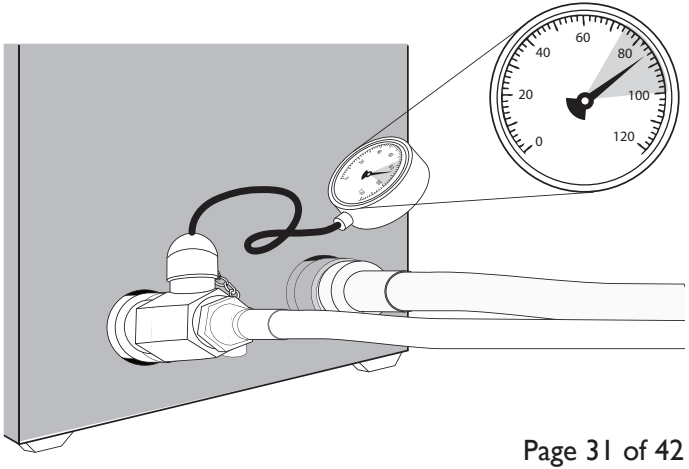
1) Unscrew the cap and connect the test hose and gauge to the test point adapter. Place the test shield around the tap mount spray head, or place the wall mount spray head behind the maintenance tool or within a plastic bag.

2) Press and hold the STOP button for more than 5 seconds. A long beep followed by four short beeps indicate that you may release the button. This COMMISSIONING MODE is indicated by four short beeps every 5 seconds accompanied by four short flashes of the ALARM LED. If an alarm input is not received within 1 minute, Automist will revert to stand-by.

> ⚠ **IMPORTANT!**
>
> In COMMISSIONING MODE the system will trigger the Automist pump for a short time once the alarm input has been received. Please ensure you have the test shield or plastic bag is secured.

3) Test the heat alarm / fire panel output as recommended in its user manual (e.g. press the test button). N.B. Some heat alarms take up to 10 seconds to trigger their alarm relays: the alarm may have to be kept sounding for this period to activate Automist.

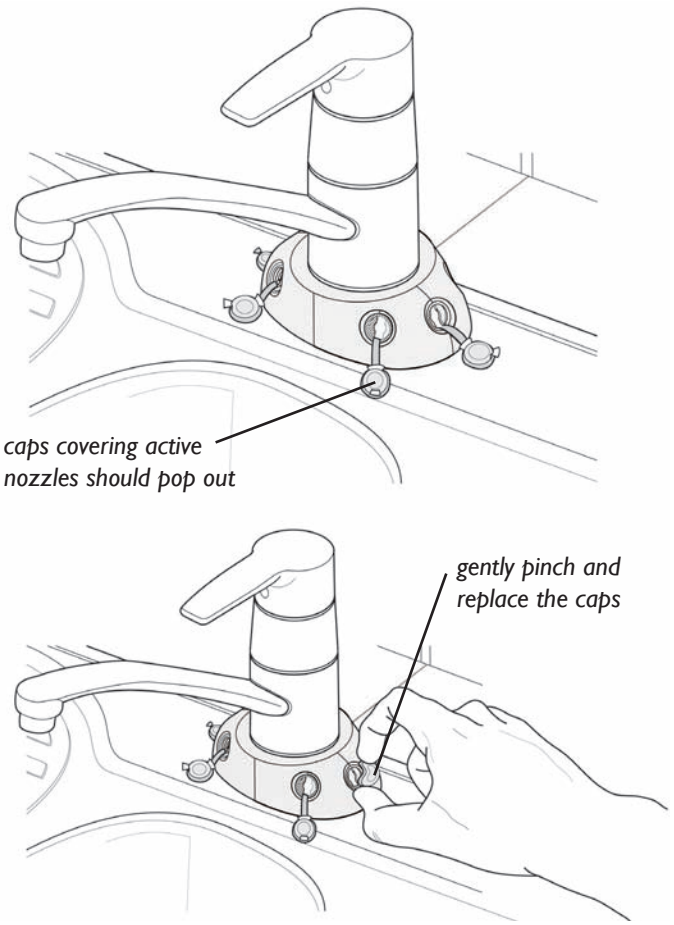
4) Check the gauge and ensure that the output pressure reaches a stable 75 to 100 bar. **You may have to run the pump continuously for 30 seconds prior to commissioning to remove trapped air in the line.**



If the pressure does not reach the required range, please refer to the commissioning troubleshooting guide (see page 35).

5) For the worktop and tap versions of Automist, check that all active caps have popped out. Make sure you replace the mist head with the active nozzles pointing into the centre of the room (see page 16). Slight dripping from the head assembly itself may occur during testing. This need not be addressed but may be remedied with silicone sealant under the head if desired. Replace the caps in the Automist head. Gently pinch the caps and push the caps into place slotting in the bottom tab followed by the top tab. Check that there has been no leakage from the base of the head and that the stem has been well sealed to the head using PTFE tape.

6) Once you have successfully commissioned your unit, complete the online installation and maintenance form and attach a layout picture.



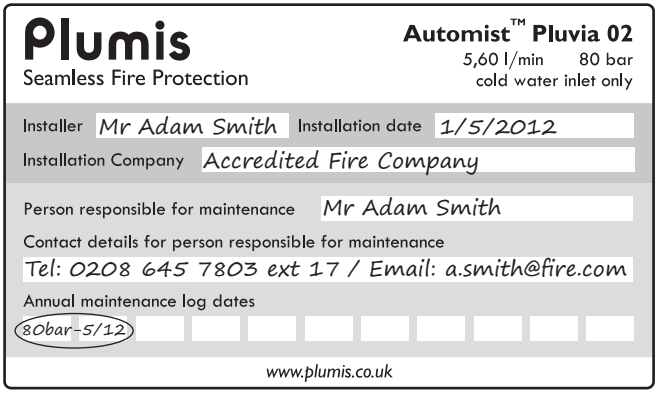
6) Place the three warning stickers:

Label the separate circuit on the circuit breaker

Label the heat alarm that triggers Automist, preferably near the test button

Label the wall mounted spray head single gang face plate.

7) Complete the installer label and affix to your Automist unit.



IMPORTANT!

Record the output pressure from the commissioning gauge on the Installer Label (as shown above) and keep a note of the details for the online commissioning form.

8) Carefully remove the test hose and gauge and re-attach the cap on the test point adapter.

IMPORTANT!

Leaving water in high pressure hoses following the commissioning/servicing process can lead to dripping nozzles, particularly if any part of the hose passes above the nozzles. In order to prevent this, the water should be expelled by attaching a Presta valve compatible bicycle pump to the brass quick connector fitting (see page 22).

REPAIR

CAUTION!

Do not attempt to repair the Automist manifold or base unit. Doing so will invalidate your warranty.

Automist should be serviced or replaced if it has been if any part of the system, including any heat alarms, have been exposed to fire conditions.

TROUBLESHOOTING

Problem	Probable Cause	Recommended Action
Desired pressure range not achieved during commissioning procedure	1. Leakage between pump and Automist head	1. Check for leakage on the high pressure water path. 2. Re-apply Plumber's PTFE tape on all male threads,. 3. Ensure the nozzles are securely fastened with o-rings. 4. Re-run commissioning.
	2. Blockage at the pump inlet	1. Close off the water with the isolation valve. 2. Disconnect the washing machine hose at the pump inlet and check for blockages on the pump strainer and within the washing machine hose.
	3. Incorrect Nozzle specification	1. Check to see the correct specified nozzles have been installed. N.b. The splitter tee requires special nozzles. 2. Please contact your Automist supplier.
	3. Mains pressure or flow is too low	1. Close off the water with the isolation valve and disconnect the washing machine hose. 2. Verify that the inlet can supply at least 6 litres per minute (lpm) of flow. 3. If the flow is lower than 6 lpm, either the mains pressure is too low for Automist to operate, or there may be constrictions in the water supply. A professional plumber should be called to verify the issue.
	4. Pump not providing enough pressure	1. Re-run the commissioning procedure with the high pressure hose outlet placed inside a container with

		volume markings. 3. If volume of water is less than 1.6 litres, the pump is not providing adequate pressure. Please contact Plumis technical support.
Pump does not run during commissioning although there is power to control unit although there is power to Automist unit	1. Trigger alarm not connected to Automist	1. Verify that alarm is connected properly by placing the test shield around head and sounding the alarm for at least 10 seconds. Automist should be triggered. Once activated cancel the alarm condition by pressing STOP on the control unit. 2. If Automist is not triggered, verify alarm connection to Automist/relay receiver location.
	2. Pump or control unit malfunction	Please contact Plumis technical support.
Power circuit trips out as soon as pump starts	1. Too-small MCB used for Automist circuit	Please refer to page 13.
No mist is produced, although pump runs during commissioning test	1. Loose High pressure hose, leakage between pump and Automist head	1. Check for leakage on the high pressure hose between the pump and the Automist head. 2. Ensure there is an appropriate synthetic rubber washer on the flat face of the outlet. 3. Re-run commissioning.
	2. Water supply is interrupted	Verify the isolation valve is open and there is a water supply to Automist.

	3. Blockage in the pump inlet	1. Close off the water with the isolation valve. 2. Disconnect the washing machine hose at the pump inlet and check for blockages on the pump strainer and within the washing machine hose.
	4. Pump malfunction	1. Disconnect the high pressure hose from the Automist head. 2. Re-run the commissioning procedure with the high pressure hose outlet placed inside a container with volume markings. 3. If volume of water is less than 1.6 litres, the pump is not providing the correct flow. Please contact Plumis technical support.
Pump pulses or stutters during commissioning test	1. Incorrect Nozzle specification	1. Check to see the correct specified nozzles have been installed. 2. Please contact your Automist supplier.
	2. Pump malfunction	1. Disconnect the high pressure hose from the Automist head. 2. Re-run the commissioning procedure with the high pressure hose outlet placed inside a container with volume markings. 3. If volume of water is less than 1.6 litres, the pump is not providing adequate pressure. Please contact Plumis

		technical support.
	3. Manifold blocked	Please contact Plumis technical support
	4. High pressure hose blocked	1. Disconnect high pressure hose between the Automist head and the pump 2. Check whether the hose is blocked. 3. If hose is blocked, call Plumis technical support.
Cap/s do not open	1. The Automist manifold has only 1 or 2 nozzles open	The Automist manifold may have only 1 or 2 nozzles for improved mist targeting. (see page 16). Remove the unopened cap with a blunt knife to check if there is a nozzle behind.
	2. Cap locked with dirt/ limescale	1. Gently pop out the unopened cap with a fingernail, screwdriver or blunt knife. 2. Remove any accumulated limescale from cap and/or cover using a sponge and limescale remover. 3. Carefully re-fit the cap. 4. Re-run pump test and verify all the caps protecting nozzles pop out.
	3. Blocked nozzle	Please contact your Automist technical support

WARRANTY

Plumis Ltd warrants its products to be free from defects in materials and workmanship under normal residential use for a period of two years from the date of original purchase. This warranty is limited to repair or replacement of units returned to Plumis Ltd according to our return procedure. The warranty on any replacement units, will last for the remainder of the period of the original warranty. Plumis Ltd reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or in stock.

If the product is found to have failed for reasons outside our warranty cover Plumis may quote to repair the unit and return it. Where products are replaced or repaired under warranty, they will be returned to a UK address free of charge.

This warranty does not cover the removal or reinstallation of products, or faults in installation.

Plumis Ltd shall not be liable for any incidental or consequential damages caused by the breach of any expressed or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for two years. This warranty does not affect your statutory rights.

CLEANING

Before cleaning the Automist under-tap or worktop head, make sure the caps are firmly in place. The head may be cleaned with general purpose kitchen cleaners such as all-purpose cleaners, cream cleaners, liquid soap or washing-up liquid and should be rinsed and wiped dry with a soft cloth. The Automist wall-mounted head should be wiped clean with a damp cloth. Do not attempt to clean with any other chemical cleaners or abrasives.

NOTES

Plumis Ltd.

Seamless Fire Protection

www.plumis.co.uk