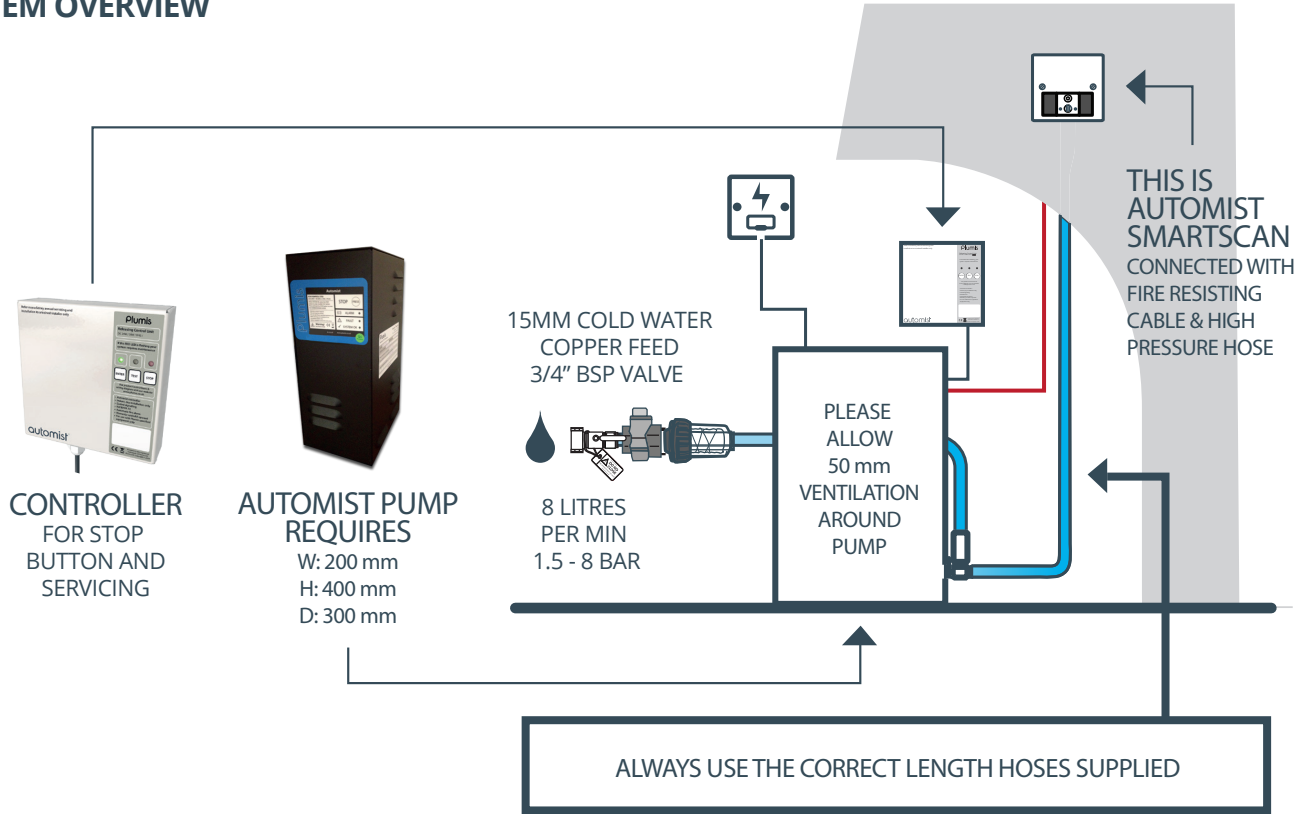


# Automist Smartscan Hydra<sup>®</sup> Preinstallation Guide

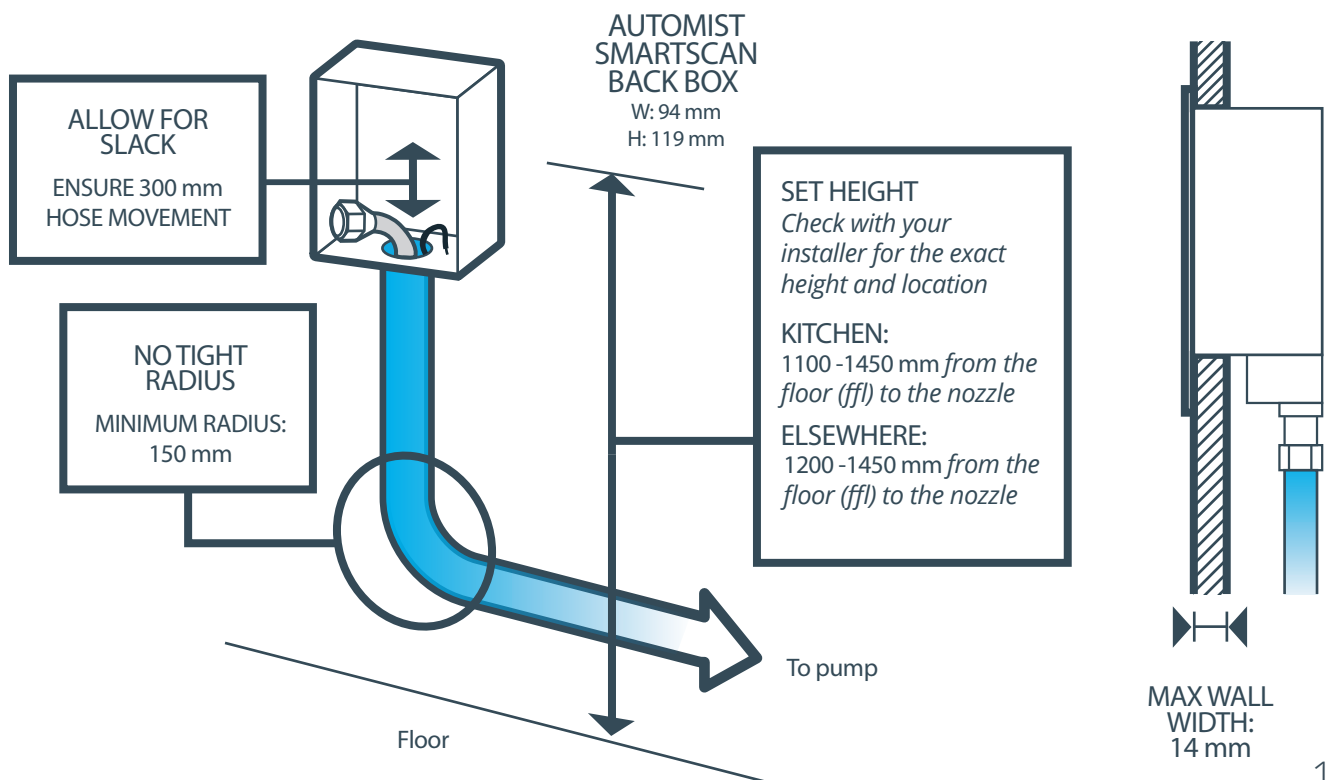
automist<sup>®</sup>  
SMARTSCAN HYDRA



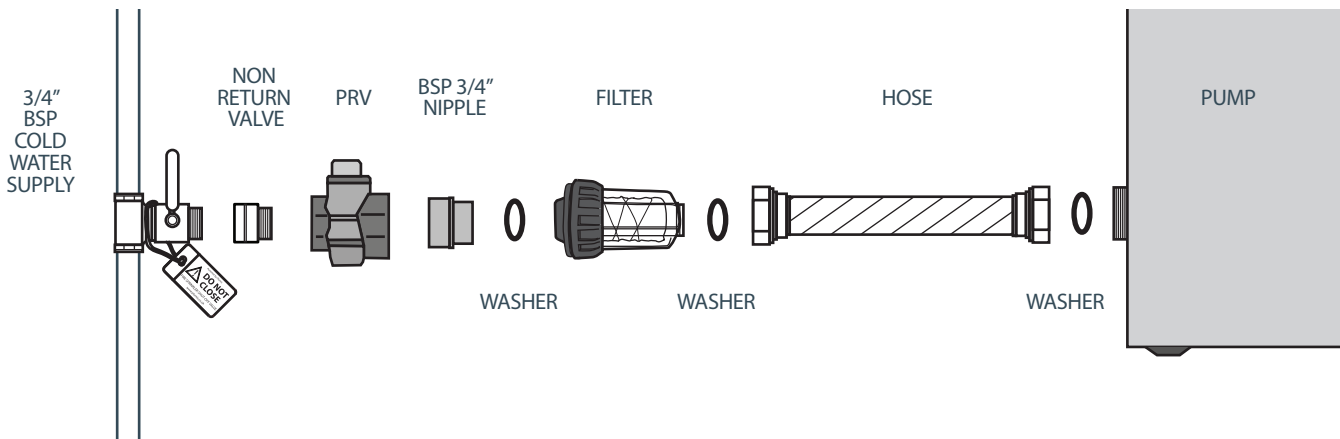
## SYSTEM OVERVIEW



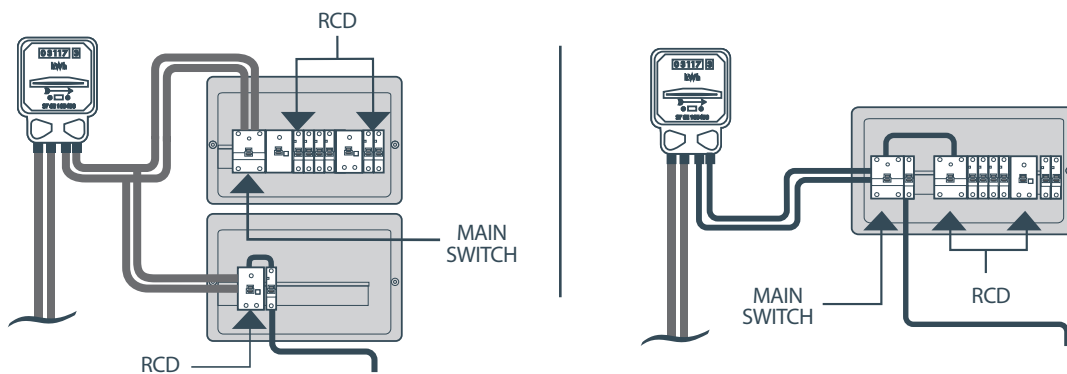
## MOUNTING THE BACK BOX



## WATER SYSTEM LAYOUT DIAGRAM



## ELECTRICAL SYSTEM LAYOUT DIAGRAM (TWO SETUP OPTIONS)

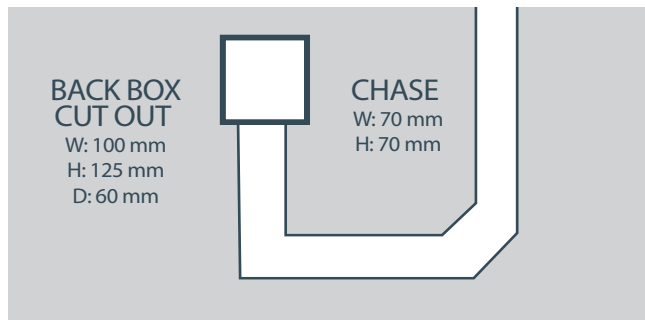


**Important!** Connecting the system to the mains requires a competent electrician with 18th Edition Electrical Qualifications. The Automist Smartscan Hydra circuit must be clearly labelled (a label is provided for this purpose). Automist Smartscan Hydra requires an independent 230V A.C. / 50Hz electrical supply, not shared with other unrelated devices. The Automist Smartscan Hydra system, fire detection and alarm system may use this circuit, which must remain powered in the event of a fire. Power to Automist Smartscan Hydra must be provided via an unswitched fused connection unit (FCU). Automist Smartscan Hydra must be supplied using FP200 cable or better, ideally inside conduit or protected 50mm deep within a wall, and with Miniature Circuit Breaker (MCB) and a Residual Current Device (RCD) (C type), or Residual Current Breaker with Overcurrent (RCBO) (C type) 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 Smartscan Hydra. An RCBO is preferred because if there is a fault on any one circuit it does not interfere with any other circuit. Typically, on a split-load board, Automist Smartscan Hydra must 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) with no spare ways for future

use. When prepay meters are present an additional prepay meter should be added specifically for Automist and housed within a lock box. The prepay meter for Automist must then be maintained with credit beyond its expected lifetime usage as part of the annual maintenance cycle.

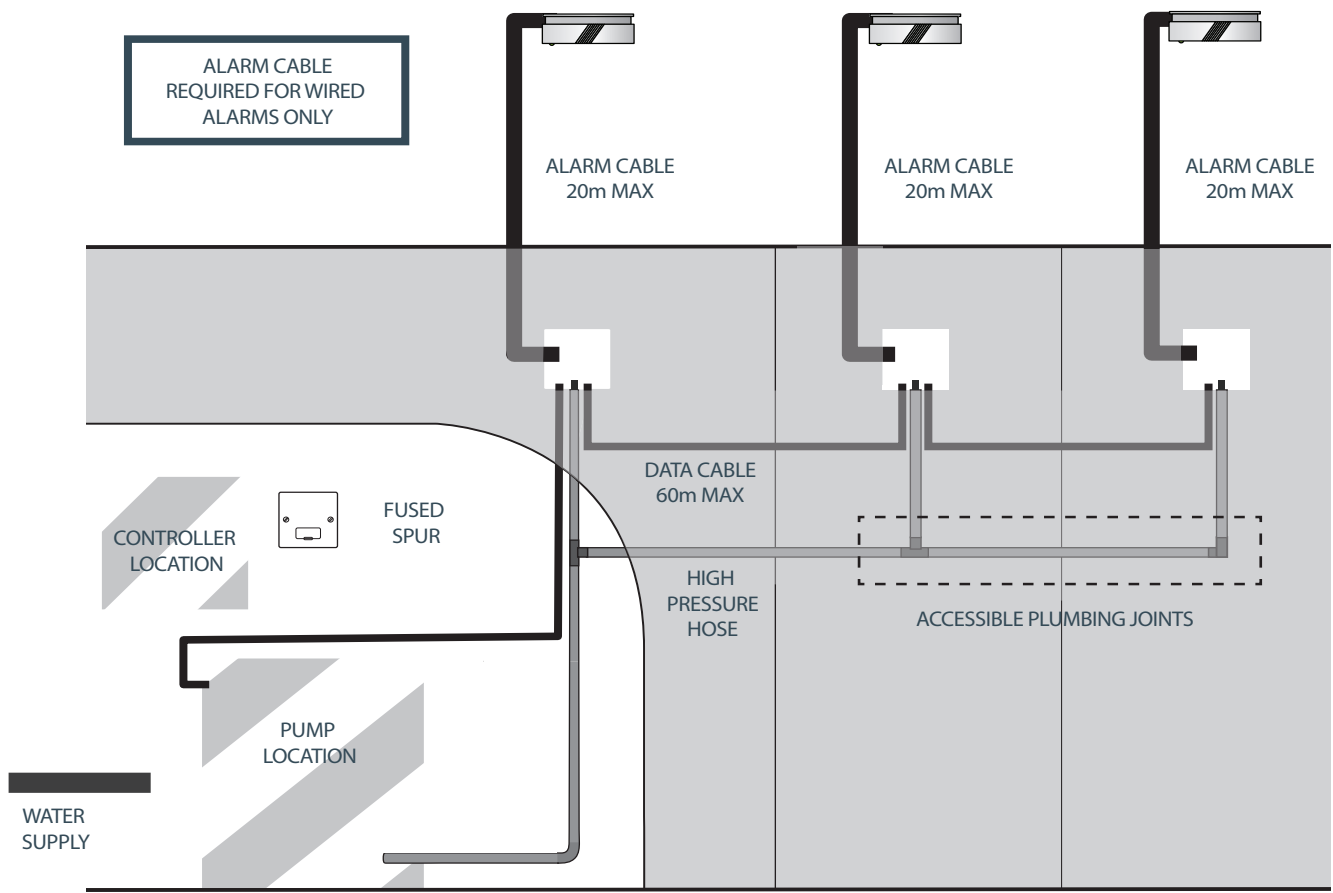
The AP08 pump is intended for domestic and residential use only and therefore is of overvoltage Category II and has a Rated Impulse Voltage of 2.5kV. Depending on installation circumstances surge protection devices across the incoming mains supply might be required. The Automist Smartscan Hydra unit presents an inductive motor load and therefore only type "C" breakers are suitable. Because Automist Smartscan Hydra is often used for life safety applications, installers must add a suitable safety margin to the MCB ratings. By protecting the circuit supplying an Automist Smartscan Hydra with a C type breaker ('C10' or 'C16' for one unit (per pump), or 'C20' / 'C32' for two Automist Smartscan Hydra units) this safety margin is achieved. This must be on a C-type breaker, on an RCBO or an RCD protected circuit. The RCD/RCBO circuit must protect only the Automist Smartscan Hydra system and not be incorporated with any other circuit in the property. If the consumer unit is in the protected area, it must be protected by an electrical cover. However, if the consumer unit is in the protected area and has a metal enclosure complying with 18th Edition IET Wiring Regulations to BS 7671 2018; it does not require the addition of an over box to meet BS476 Part 22 (1987) and EN1364 (1999).

## SOLID WALL CHASING



**Important!** We require a viable hose route through the fabric of the property from the proposed pump location to the proposed location of the spray head. We will try to utilise plasterboard walls within the property but sometimes solid walls will need to be chased in order to install the spray head. Please allow at least a 40mm chase/hole(s) to be drilled for the hose through studs.

## PRE INSTALLATION SETUP



1. Does the preinstallation set up match the layout drawing?
2. Is there enough room for the pump at its set location?
3. Is there a viable hose route from the pump to the spray head(s) position, with at least 40mm holes for the hose to pass through?
4. Is there a viable hose route from the head to head?
5. Has all solid wall chasing been completed with the correct chasing dimensions?
6. Is there an unswitched fused spur at the pump location?  
*Remember 1 fused spur for 1 pump*
7. Does the electrical supply have the correct protection at the fuse board (c16 non-rcd breaker)?
8. Is there a 15mm copper feed terminating in a 3/4" BSP Valve at the pump location?  
*Remember 1 valve for 1 pump*