



**HOTSTART
and
SAFEPURGE**
Showers and Taps

Range and
Part Number

All Ranges

Product
Description

Two-pipe Shower Systems

Document
Title

System Guidelines



Pontiac 2000
Two-pipe Shower
Suitable for exposed and
concealed pipe work
connections.

Legal Considerations; The Health & Safety at Work Act etc, 1974.

Approved Code of Practice & Guidance (ACoP&G): Legionnaires' disease (L8)

- Paragraph 166 describes Hotstart / Safepurge legionella control technology; founded by Aqua Hygiene Products; developed as a practical and dependable alternative to regularly flushing and monitoring conventional showers, described in paragraph 165 of L8.
- L8 describes the responsibilities of manufacturers, designers and installers - who must ensure systems are safe; designed, installed and commissioned as appropriate.

Two-pipe Shower System Guidelines: Peripheral Water System Legionella Control

CENTRAL WATER SYSTEM LEGIONELLA CONTROLS - DESCRIBED BY OTHERS, MUST COMPLY WITH ACoP&G (L8)

1. Hot Water Deadleg

Maintain practical minimum lengths; construct from 15mm BS copper pipe (check water pressure and flow rates within product limits); galvanised steel pipes should be avoided. Water supplies must be designed, operated and maintained in compliance with the L8. *See further guidance.*

2. Cold Water Deadleg

See Hot Water Deadleg; care must be taken to route pipe work to avoid heat gains, eg avoid pipework in boiler rooms, in direct sunlight etc. *See further guidance.*

3. Manual Mixer Valve

For safety reasons the mixer valve type must always incorporate an anti-scald device. The valve must be capable of delivering water in excess of 37°C to actuate the AHP 6000 purge-cycle controller. The mixer valve shall serve only one shower head, always avoid systems where mixer valves serve multiple showerheads. *See L8: 152(h).*

4. Blended Water Pipe

Construct from BS 15mm smooth bore copper pipe and keep to practical minimum lengths.

4a. Optional Flow Regulating Valve - see guidance

First, always try to regulate water flow rate from mixer valve for comfort conditions. If this is proving difficult, it may be practical to consider fitting an adjustable restriction device to regulate water flow (check with mixer valve manufacturers). This device will not compensate for excessive water pressures that should be maintained within limits set. *See technical data sheets.*

5. Two-pipe Showerhead

2000 series: Pontiac; Edinburgh; Philadelphia. *See technical data sheets.*

6. Purge Water Pipe

Purge water flow must always fall (never rise above horizontal) after leaving showerhead. Route pipework to best avoid creating back-pressures that may operate the showerhead before cycle complete. *See technical data.*

7. Thermal Purge-cycle Controller (AHP 6000)

Controller senses water temperature, when shower is operated, the cooler water experienced at the beginning of conventional showers is purged directly to waste / drain. When the purge water (mixed hot and cold) reaches 37°C the controller starts to close and a back-pressure is created to operate the showerhead. Never expose controller to direct sunlight, heat sources in excess of normal design room temperatures. *See technical data.*

8. Air-gap Arrangement

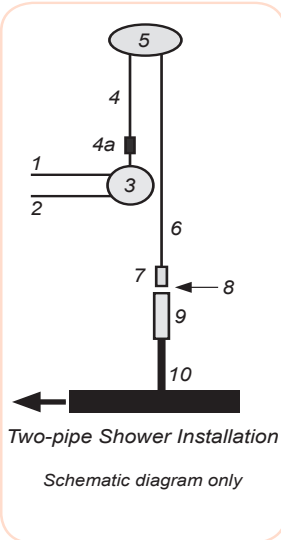
Locate in suitable position, away from children and adults who may tamper with device and hurt themselves. Water regulations may require an unobstructed air-gap to be fitted to provide water supply protection against back-flow contamination. The AHP air-gap arrangement is developed for minimum production of aerosols. The AHP 6000 purge-cycle controller discharges purged water through a 25mm air-gap, to the AHP 7100 Tuntube. The AHP 8100 fitting kit assists in constructing the air-gap arrangement. An air-gap guard, supplied loose, maintains an equal open spill over area through an increase in air-gap height; although practical in safety design, only fit when the local water authority permits. *See technical data.*

9. Tuntube (AHP 7100)

Designed to receive purge water with a minimum production of aerosols. Aerosols and foul smells are prevented from drifting from the connected drain / waste by a self sealing valve. *See technical data.*

10. Pipework connected between Tuntube and drain / waste services

Pipework connected to bottom of Tuntube must be connected directly to drain / waste services. Purge water must never be exposed to the immediate environment / atmosphere / shower floors. Pipework must avoid backfill of Tuntube. Drain / waste services must comply with Water and Building Regulations. *See technical data sheets.*



Two-pipe Shower Installation
Schematic diagram only



Air-gap Arrangement
Tuntube and Purge-cycle
controller; guard fitted.

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- Backed by full technical, scientific and after-sales support.
- World leaders in supplying reliable and quality products for the control of legionella in showers, taps and associated deadlegs.
- Safepurge and Hotstart designs and technologies are protected by UK, USA, European & PCT patents, granted and pending.