

Aquablend 2000 Upgrade Cartridge with Thermal Flush

INSTALLATION COMMISSIONING & MAINTENANCE

Before installation, ensure that TMV strainers have been cleaned, and pipework is thoroughly flushed with clean water. Check that water supply pressures and temperatures meet specification.

ATMS234

INSTALLATION

- 1 Remove existing old-style cartridge from TMV body. Make sure that both the upper cartridge and lower cartridge assemblies have been removed from the body.
- 2 Lightly apply grease* to outer o-rings of new cartridge, and install into existing TMV body.

*Food grade silicone based grease (e.g. Molykote 111, Clare FU5, Hydroseal)

TEMPERATURE ADJUSTMENT

- 1 Using a small flat bladed screw driver, lever the protective cover off the valve.
- 2 Fit the supplied triangular key over the adjusting spindle. To increase the mixed outlet temperature, rotate the spindle anti-clockwise. To decrease, rotate clockwise.
- 3 Check that the outlet temperature is stable over the full range of flow rates and that the flow rate is adequate for the application.

THERMAL FLUSH OPTION PROCEDURE

- 1 Isolate both hot & cold inlet valves to TMV
- 2 Remove the TMV's Red Lock Shield (protective cover)
- 3 Check that the temperature adjustment locking grub screw is tight. The grub screw is located on the hex of the top cap.
- 4 Insert 3mm Allen key into activation point in the centre of the temperature adjustment screw on valve's top cap.
- 5 Wind screw anti-clockwise until it stops. A red indicator will be visible.
- 6 Turn hot water TMV inlet valve to on position.
- 7 Turn the tapware outlet to the ON position.
WARNING: full temperature hot water will flow from the tapware. Care must be taken to prevent scalding.

COMMISSIONING

Turn water supplies on, and allow the mixed water outlet to flow for at least 60 secs. Allow temperature to stabilise before taking a reading at the outlet with a digital thermometer. The outlet temperature must be checked and adjusted as required, and shut down tests carried out to test thermal shutdown function.

- 8 Once the required time set in the facility's Thermal Flush procedure has passed, turn hot water TMV inlet valve to off position.
- 9 Leaving the outlet in an ON position, turn cold water TMV inlet valve to ON position.
- 10 Wind the Thermal Flush activation screw in clockwise until it is sitting level with the temp adjustment screw. (Note: spurts of cold water will discharge from the tapware outlet during this process.)
- 11 Turn hot water TMV inlet valve to ON position.
- 12 Check the outlet flow, making sure it is within the required temperature range.
- 13 Turn the tapware outlet OFF.
- 14 Re-fit the Red Lock Shield to the TMV

NOTE: If the Red Lock Shield does not securely fit back to the top cap this indicates the thermal flush has not been disengaged. Repeat Steps 9-13

SHUT DOWN TEST

- 1 Allow the mixed water temperature to stabilise and note the outlet temperature. While holding a digital thermometer in the outlet flow, quickly isolate the cold water supply to the valve. The outlet flow should quickly cease flowing (less than 0.1 L/min) following the isolation. Monitor the maximum outlet flow temperature, and record this on the Commissioning Report. Restore the cold water supply to the valve.
- 2 Repeat the above test for the hot water supply to the valve. The outlet flow should quickly slow to a trickle (less than 0.4L/min@500kPa down to less than 0.1L/min@100kPa) following the isolation.

Restore the hot water supply to the valve and measure and record the outlet temperature after the mixed water temperature has stabilised, ensuring the outlet temperature has re-established.

Ensure that all details of the Commissioning Report are completed & signed by the relevant signatories, and a copy is kept with the installer and owner of the premises.

MAINTENANCE

Annual Maintenance:

Every 12 months the ENWARE AQUABLEND TMV must be inspected & tested.

5-Year Maintenance:

In addition to the annual maintenance, the cartridge O-rings and thermostatic element shuttle assembly must be replaced.

For more detail, or for a copy of a commissioning report, refer to Aquablend 2000 ATM713 Installation Instructions.

SPARE PARTS

ATMS235	O-Ring Kit
ATMS1400	Thermostatic Element