Class 1

# Stream by Aquatica Shower Mixers

Product Disclosure Information Self-Assessment
Version: V1

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| **Product Name** | STREAM BY AQUATICA SHOWER MIXER |
| **Product Line** | STREAM BY AQUATICA TAPWARE |
| **Product Identifier** | **On/Off Shower Mixers** (Mains Pressure Only)<br>KR SHM (SKU 158804)<br><br>**Shower Mixers Mains Pressure Only**<br>CT BATHFILLER SHM (SKU 2009970, 2009971, 2009972, 2009973, 2009974)<br>IP SHM (SKU 366228, 366229, 366230)<br>KI SHM35 SLIM (SKU 353594, 353595, 353596, 353597)<br>KI SHM35 SQ (SKU 353590, 353591, 353592, 353593)<br>SI SHM (SKU 317606)<br><br>**Shower Mixers All Pressures** (above 35kPa)<br>CT SHM40 (SKU 2009975, 2009976, 2009977, 2009978, 2009979)<br>FX SHM40 (SKU 229341)<br>FZ SHM (SKU 121403)<br>GZ SHM40 (SKU 295282, 299992)<br>KI SHM40 (SKU 353598, 353599, 353600, 353601)<br>PO SHM40 (SKU 352049, 352050, 352051, 352052)<br>SE SHM40 (SKU 295257)<br>SF SHM (SKU 366653)<br>SL SHM40 (SKU 352061)<br>ST SHM (SKU 157869)<br>TA2 SHM (SKU 364826)<br>OL SHM (SKU 121413)<br><br>**Shower Mixers All Pressures** (above 20kPa)<br>FZ SHMEZI (SKU 121408)<br><br>**Shower Mixers with Diverter All Pressures** (above 35kPa)<br>FX SHMBDAP (SKU 219645)<br>FZ SHMBDAP (SKU 121404)<br>SE SHMBD45 (SKU 296346)<br>TA2 SHMBDAP (SKU 364827)<br><br>**Shower Mixer with Diverter (Mains Pressure only)**<br>OL SHMBD (SKU 121414) |

## Product description

Stream Shower Mixers and Shower Mixers with Diverter. Some are suitable for both mains and low pressure installations and some are suitable for mains pressure only. See the breakdown in the list above. Wherever a product is available in multiple colours just one core code is included although all the SKU numbers for the colours are listed.

## Relevant Building Code Clauses

**B2 DURABILITY B2.3.1 (i) and (ii)**
**E3 INTERNAL MOISTURE E3.3.5**
**G12 WATER SUPPLIES G12.3.2, G12.3.5, G12.3.7**
**G4 VENTILATION G4.3.3** (Referenced in maintenance requirements)
**H1 ENERGY EFFICIENCY H1.2**

## Contributions to Compliance

**B2.3.1 Durability:** Made from brass and with solid metal handles, the Stream mixers come with a 5 year warranty. The European cartridge has a 20 year warranty. The finish on most are achieved with chromium electroplating, which wears well over many years with simple maintenance. The decorative finishes other than chrome, have a 2 year warranty.**

Every single shower mixer is individually pressure tested in New Zealand prior to its dispatch for quality assurance. The cartridge in all the mixers in blue above is high quality European-made.

**E3 Internal Moisture: E3.3.5** The mixers are designed with a seal at the back of the cartridge. Should the cartridge fail, the mixer is designed to leak out of the top of the cartridge and under the handle and into the shower tray thereby reducing the risk of a leak behind the wall and making it obvious to the home-owner.

Each mixer is pressure tested in New Zealand prior to dispatch to reduce further the likelihood of leakage. The smooth surfaces of the electroplated, powder-coated or PVD mixers are easy to wipe clean thereby reducing mould growth or contamination.

**G12.3.5 Water Supplies:** These fixtures are intended to supply hot and cold water as required for personal showering or bathing.

**G12.3.7** Each tap delivers sufficient flow for correct functioning under normal conditions. (See Conditions of Use below for pressure minimums.)

For unequal pressure environments, the mixers include isolators, which, when set correctly reduce the likelihood that cold water will backflow through the cartridge and into the hot water line, and back into the hot water cylinder, and even out onto the roof, thereby wasting water and energy. (See Conditions of Use for the details of how these should be set.) Each individual mixer is pressure tested in New Zealand prior to dispatch to reduce the likelihood of leakage.

**H1 Energy Efficiency: H1.2** Shower mixers are not rated for water efficiency, as the associated Handshower or Rose is always rated for WELS. However, the European Kerox cartridge in all of the mixers below in green text, includes a clever yet simple anti-scald device which can be set if desired. This is both a safety feature and an energy saving device. It's a simple matter of removing the grey plastic ring on the top of the cartridge and repositioning it so that the cartridge is prevented from travelling all the way to full hot, stopping instead at whatever point in its travel is chosen as the maximum hot temperature.

**On/Off Shower Mixers (Mains Pressure Only)**
KR SHM

**Shower Mixers Mains Pressure Only**
CT BATHFILLER SHM, IP SHM, KI SHM35 SLIM, KI SHM35 SQ,

**Shower Mixers All Pressures (above 35kPa)**
CT SHM40, FX SHM40, FZ SHM, GZ SHM40, KI SHM40, PO SHM40, SE SHM40, SF SHM, SL SHM40, ST SHM, TA2 SHM

**Shower Mixers All Pressures (above 20kPa)**
FZ SHMEZI

**Shower Mixers with Diverter All Pressures (above 35kPa)**
FX SHMBDAP, FZ SHMBDAP, SE SHMBD45, TA2 SHMBDAP

**The shower mixers for all pressures above 35kPa** come with at least 1 isolator which not only make it easy to set the mixer up for a good shower, they also act as a way of reducing the likelihood of backflow into the hot water cylinder from high pressure coming from the cold line. That backflow can waste a lot of hot water and energy, giving these mixers another desirable feature to support energy efficiency.

## Scope of Use

The Aquatica Shower Mixers are intended for accommodation and residential use. They are all suitable for both hot and cold water use. Some are suitable with mains pressures systems only and a minimum pressure of 150kPa, and some for low pressure systems with pressures greater than 35kPa, (while a few will operate at pressures as low as 20kPa. They appear under their appropriate headings on page 1 of this document.)

## Conditions of Use

The Aquatica Shower Mixers should be installed by a registered plumber following best practice.

**Shower Mixers with On/Off Cartridge**
The On/Off shower mixer is for mains pressure only. When the handle is turned clockwise, the water starts to flow, initially cold then progresses to warm and all the way through to hot.

**Shower Mixers suitable for all pressures above 35kPa.**
Low pressure environments typically mean low pressure hot water and high pressure cold water. The higher pressure of the cold water can force cold water back through the cartridge, into the hot line, back into the hot water cylinder, and even out onto the roof, (thereby wasting both water and energy) unless there is a mechanism within the mixer to reduce the likelihood of this occuring. The Mixers which are suitable for all pressures above 35kPa have isolators installed on at least the cold side, which as well as making it easier to achieve a warm mix during operation, also reduces the risk of a backflow issue.

Sometimes in the shower, in unequal pressure situations, in your search to find "warm" you might tap the handle slightly and you get cold, tap it the other way and you get hot. "Warm" seems to be in a very small spot. The European cartridge in all the shower mixers listed below, has a ceramic disc which provides a wider mixing action, which means there's a larger "warm" zone.

CT SHM40, FX SHM40, FZ SHM, GZ SHM40, KI SHM40, PO SHM40,
SE SHM40, SF SHM, SL SHM40, ST SHM, TA2 SHM

And here's a simple tip on how to set the mixer up for unequal pressure: with the faceplate off, set the handle to 6 o'clock. Turn both isolators off. Turn the hot isolator on full, then gradually open up the cold isolator until the water runs to your desired showering temperature. Now it's set.

The same cartridge also includes an anti-scald device, described in more detail under H1 ENERGY EFFICIENCY above.

## Maintenance Requirements

To keep tapware looking good for longer, avoid using spray cleaners which over time can attack the finish. Decorative coloured tapware are particularly vulnerable to this. Instead, wipe regularly using a mild detergent and a soft damp cloth. Then wipe dry with a clean cloth.

To prevent mould growth in the bathroom, and to increase the life of all the fixtures, install a fan which draws out moisture from the room. To ensure regular use of the fan, you could ask your electrician to link the light switch to the fan. *(This would fulfill obligations under the building code clause* ***G4.3.3*** *to remove moisture and pathogens in the air from bathing or showering.)*

Debris in a water line can damage the smooth ceramic surfaces in a mixer cartridge. This is the most likely reason for a good cartridge to fail. In that event, replacing a cartridge is not an overly technical activity and can typically be carried out by a home handyman.

## Warnings and Bans

This product line is not subject to any warning or ban under section 26 of the Building Act 2004.

**Contact details**

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| **Manufacture locations** | New Zealand, China, Hungary |
| **Legal and trading name of manufacturer and importer** | AQUATICA NZ LIMITED |
| **Manufacturer/Importer Address for Service** | 9 Saunders Place, Avondale<br>Auckland 1026 |

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| **Manufacturer/Importer Website** | www.aquatica.co.nz |
| **Manufacturer/Importer NZBN** | 9429000023962 |
| **Manufacturer/Importer Email** | info@aquatica.co.nz |
| **Manufacturer/Importer Phone Number** | 09.828.2068 |

## Building code performance clauses

All relevant building code performance clauses listed in this document:

**B2 DURABILITY**

**B2.3.1** *Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for 5 years if **(i)** The *building elements* (including services, linings, renewable protective coatings, and *fixtures* ) are easy to access and replace, and **(ii)** Failure of those building elements to comply with the building code would be easily detected during normal use of the building.

**E3 INTERNAL MOISTURE**

**E3.3.5** Surfaces of *building elements* likely to be splashed or become contaminated in the course of the *intended use* of the *building* must be *impervious* and easily cleaned.

**G12 WATER SUPPLIES**

**G12.3.5** Sanitary fixtures and sanitary appliances must be provided with hot water when intended to be used for a) utensil washing; and b) personal washing, showering or bathing.

**G12.3.7** *Water supply systems* must be installed in a manner that a) pipes water to *sanitary fixtures* and *sanitary appliances* at flow rates that are adequate for the correct functioning of those *fixtures* and *appliances* under normal conditions: and b) avoids the likelihood of leakage; and c) allows reasonable access to components likely to need maintenance; and d) allows the system and any backflow prevention devices to be isolated for testing and maintenance.

**H1 ENERGY EFFICIENCY**

**H1.2** *Buildings* must be *constructed* to achieve an adequate degree of energy efficiency when that energy is used for a) modifying temperature, modifying humidity, providing ventilation, or doing all or any of those things; or b) providing hot water to and from sanitary fixtures or sanitary appliances, or both.

**G4 VENTILATION** *(only with reference to Maintenance Requirements)*

**G4.3.3** Buildings shall have a means of collecting or otherwise removing the following products from the spaces in which they are generated: **b)** [Moisture] from laundering, utensil washing, bathing and showering and **h)** bacteria viruses or other pathogens.

*** The warranties referred to in this document are residential warranties. Commercial warranties can be found as part of Aquatica's full warranty document available at www.aquatica.co.nz.*