Class 1

Aquatica Mitre 10 Basin and Vessel Mixers

Product Disclosure Information Self-Assessment
Version: V1

Product Name	Aquatica Basin and Vessel and Mixers for Mitre 10
Product Line	AQUATICA BATHROOM TAPWARE for Mitre 10
Product Identifier	**Basin Mixers (Wall-mounted)** KI BASMWM (SKU 364957) **Basin Mixers (Standard Hob-mounted)** CT BASMAP (SKU 2009955, 2009956, 2009957, 2009958, 2009959) FX BASMAP (SKU 219647) FZ BASM (SKU 121402) FZ BASMSW (SKU 215735) GZ BASMAP (SKU 295290, 300047) IP BASM (SKU 366224,366225, 366226) KI BASMAP (SKU 353578, 353579, 353580, 353581) KI BASMSW (SKU 353574, 353575, 353576, 353577) OL BASM (SKU 121409) OL BASMMINI (SKU 215734) PO BASMAP (SKU 352045, 352046, 352047, 352048) SE BASMAP (SKU 288671) SF BASM (SKU 366655) SI BASMAP (SKU 295291) SL BASM (SKU 352068) ST BASM (SKU 157868) ST BASMSW (SKU 158389) TA2 BASM (SKU 364823) TA2 BASMPLUS (SKU 364824) TA2 BASMSW (SKU 364825) TR BASM (SKU 215738) **Vessel Mixers** (sometimes described as Tall Basin Mixers) CT VMAP (SKU 2009960, 2009961, 2009962, 2009963, 2009964) IP VM (SKU 366227) PO VMAP (SKU 352053, 352054, 352055, 352056) SI VM (SKU 309298) SL VM (SKU 352069)

Product description

Aquatica Basin and Vessel Mixers for Mitre 10 (and their spare parts).
Wherever products are available in multiple colours, just one core code is listed, but all the SKU numbers are given.

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 or stainless steel with solid metal handles, the Basin and Vessel Mixers come with a 5 year residential warranty. The European cartridge has a 20 year residential warranty. Decorative finishes other than chrome are warranted for 2 years against manufacturing fault. **

Only high quality german flow regulators from Neoperl are used in the Basin and Vessel Mixers. These regulators reliably limit flow to achieve the relevant water efficiency star rating under WELS for both mains and low pressure situations. (The star ratings for each product are listed on the next page under H1 Energy Efficiency.)

Every single basin and vessel mixer is individually pressure tested in New Zealand prior to its dispatch for quality assurance. The ceramic cartridge in all the mixers is high quality European-made.

Any failure would be easily detected during normal use. These fixtures are easily accessible for maintenance.

E3 Internal Moisture: E3.3.5 The smooth surfaces of the mixers are easy to wipe clean thereby reducing mould growth or contamination.

G12 Water Supplies G12.3.5 All of these fixtures are intended to supply hot and cold water as required for utensil and personal washing.

G12.3.7 Each mixer delivers sufficient flow for correct functioning under normal conditions. (See Conditions of Use below for pressure minimums.) Each individual mixer is pressure tested in New Zealand prior to dispatch for quality assurance.

For unequal pressure environments, the mixers are set up so that high cold water pressure is less likely to backflow through the cartridge and into the hot water line, 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 what is supplied to achieve this.)

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 handyperson. Aquatica Isolator Filter Stops can be installed in the cupboard or vanity below the mixer, at the flexible tail connection point, to help protect the cartridge from debris in the line. They can also be used to balance the flow and it can be a convenient shut-off point for the water, if ever that's required.

H1 Energy Efficiency: H1.2 All basin and vessel mixers are covered by WELS, (the Water Efficiency Labelling Scheme), and unless rated 0 stars, are fitted with high quality german Neoperl regulators to reliably limit flow to achieve their relevant star ratings, which are in the table on the next page.

ST BASM, ST BASMSW	6* Mains Pressure (4.5 l/min), 3* Low Pressure (9 l/min)
CT BASMAP, CT VMAP, KI BASMSW, PO VMAP	4* Mains Pressure (7.5 l/min), 6* Low Pressure (4.5 l/min)
KI VMAP PO BASMAP, SI BASMAP	4* Mains Pressure (7.5 l/min), 5* Low Pressure (6 l/min)
KI BASMAP, SF BASM	4* Mains Pressure (7.5 l/min), 4* Low Pressure (7.5 l/min)
FZ BASM, FZ BASMSW, GZ BASMAP, SE BASMAP, TA2 BASM, TA2 BASMSW, TA2 BASMPLUS	4* Mains Pressure (7.5 l/min), 3* Low Pressure (9 l/min)
FX BASMAP	4* Mains Pressure (7.5 l/min), 2* Low Pressure (12 l/min)
GO BASM35, IP BASM, IP VM, KI BASMWM OL BASM, OL BASMMINI, SL BASM, SL VM, TR BASM	4* Mains Pressure (7.5 l/min)
SI VM	0* Mains Pressure (12.2) 5* Low Pressure (6 l/min)

The codes in blue above, have a high quality European Kerox ceramic cartridge installed, many of which include 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.

Scope of Use

These mixers are intended for accommodation and residential use. They are suitable for both hot and cold water use, and all are suitable for mains pressure systems. Those in the above list with a low pressure WELS rating, are suitable for low pressure systems with a minimum pressure at the mixer of 35kPa.

Conditions of Use

The Aquatica basin and vessel mixers should be installed by a registered plumber following best practice.

The operating pressure for all Aquatica tapware is between 150 and 600kPa for mains pressure and between 35 and 600kPa for low pressure. They are designed to operate under pressures up to a maximum of 1000kPa. However, there are 2 things to consider. Firstly, consider that the pressure overnight increases while taps are not being used, and can easily spike to well beyond 1000kPa without a pressure limiting device installed. Secondly, consider the Building Code requirements, shown below.

Building Code Requirement - Pressure
It is now a requirement in the NZ Building Code that the minimum working pressure at any fixture is 30kPa and the maximum static pressure shall be no more than 500kPa.

Building Code Requirement - Temperature
Another Building Code requirement is that the temperature of water at personal hygiene fixtures in a home should not exceed 50°C. 45°C is the maximum in early childhood education and care centres, schools, old people's homes, institutions for people with psychiatric or physical disabilities and hospitals. (For licensing purposes for early childhood education and care centres, the Ministry of Education requires that the temperature of water delivered from taps that are accessible to children should not exceed 40°C.)

Where the mixers are suitable for both mains and low pressures, they are supplied ready for low pressure and are suitable for all pressures above 35kPa. The appropriate pressure compensating aerator (PCA) is included in the box in a printed envelope to be fitted for mains pressure systems to achieve the relevant WELS water efficiency rating but is not used for low pressure installations.

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 risk of this occuring. Those Basin and Vessel Mixers which are suitable for both mains and low pressures have a high quality, german Neoperl Pressure Compensating Washer (PCW) in the cold flexible tail which is designed to limit the flow on cold water to more closely match the hot. This reduces the risk of a backflow issue and also makes it easier to achieve a warm mix during operation. It's important that the PCW is installed so that the direction of the water is towards the side of the washer with the little black oring.

After installation, the mixer tails should not be kinked or unduly twisted.

Maintenance Requirements

Some of the mixers are chrome. Chromium electroplated tapware is amongst the hardiest of fixture coatings. Others might be PVD, colour electroplated or powder-coated. Whatever the finish, to keep tapware looking good for longer, avoid using spray cleaners which over time can attack the finish. Instead, wipe regularly using a mild detergent and a soft damp cloth. Then rinse and 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.)

Sometimes debris in the water line can make its way into the aerator at the end of the spout of your basin or vessel mixer. You might notice the flow pattern become irregular. Simply unscrew the aerator ring, rinse out and reinstall. There are generally flats on the aerator ring for grip. Most often this can be unscrewed by hand, just with a piece of rubber. If a wrench is needed, still use the rubber to prevent metal-on-metal damage to the aerator ring.

Apart from the wall-mounted mixers, the flexible tails on the Basin and Vessel Mixers are made with a waterproof lining to prevent leaking, then covered wtih stainless steel braiding for protection and strength. Although stainless steel stains less than steel, it is not stain-proof. It is more resistant to corrosion than ordinary carbon or alloy steels but in some circumstances it can corrode. Chemicals ending in "ine" such as chlorine, iodine and bromine will attack stainless steel. This can even happen if you store chemicals under the sink or basin. Even if the container has a lid on, it may not be perfectly sealed and can give off vapour which, when combined with any dampness in the air can corrode stainless steel. So you should check your flexible tails about every 6 months for signs of corrosion, especially if the room is damp and not well ventilated.

Warnings and Bans

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

Contact details

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