

Aquatica Sink Mixers for Mitre 10

Product Disclosure Information Self-Assessment

Version: V1

Product Name	Aquatica Sink Mixers for Mitre 10
Product Line	AQUATICA KITCHEN TAPWARE FOR MITRE 10
Product Identifier	<p>Sink Mixers (Wall-mounted) ST XSM (SKU 158510)</p> <p>Sink Mixers Standard (Hob-mounted) FX SMAP (SKU 219648) FZ SM (SKU 121405) FZ SMCS 2 GZ SM40 BLK (SKU 299998) GZ SMAP (SKU 295271) IP SM (SKU 352044) KI SM GNECK RF SM GNECK (SKU 352057, 352058, 352059, 352060, 366661) SE SMAP (SKU 289765) SF SM (SKU 366654) SL SM GNECK (SKU 352066) ST SM (SKU 157866) TA2 SM (SKU 364828)</p> <p>Sink Mixers with Spray (Hob-mounted) RF SMCOIL (SKU 353570, 353571, 353572, 353573) SL SMPS (SKU 352067) SL SMPOH ST SMPS (SKU 158506) TA2 SMPS (SKU 364829)</p> <p>Sink Mixers with Water Filter (Hob-mounted) DEA SMWF (SKU 105795) OL SMWF (SKU 246864)</p>

Product description

Aquatica Sink Mixers for Mitre 10. Wherever products are available in multiple colours, just one core code is listed. This document also encompasses spare parts for these products.

Relevant Building Code Clauses

B2 DURABILITY B2.3.1 (i) and (ii)

E3 INTERNAL MOISTURE E3.3.5

G12 WATER SUPPLIES 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 Sink Mixers come with a 5 year warranty. The ceramic cartridge has a 20 year warranty. The head and hose carry a 2 year warranty. Decorative finishes other than chrome are warranted for 2 years. ** Those mixers in green print below have a high quality European Kerox Ceramic Cartridge.

Only high quality German flow regulators from Neoperl are used in the Sink 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 sink mixer is individually pressure tested in New Zealand prior to its dispatch for quality assurance.

Any failure would be easily detected during normal use.

E3 Internal Moisture: E3.3.5 The smooth surfaces of the mixers are impervious and easy to wipe clean.

G12 Water Supplies G12.3.5 All of these fixtures are intended to supply hot and cold water as required for utensil cleaning and food 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 to reduce the likelihood of leakage.

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.)

These products all allow reasonable access to components for maintenance.

H1 Energy Efficiency: H1.2 All sink mixers are covered by WELS, (the Water Efficiency Labelling Scheme), and are fitted with high quality German Neoperl regulators to reliably limit flow to achieve their relevant star ratings.

For the codes in green below, the cartridge is a high quality European Kerox ceramic cartridge, 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.

WELS Ratings for all sink mixers, and green indicates high quality European cartridge:

ST SMPS	3* Mains Pressure (9 l/min), 5* Low Pressure (6 l/min)
OL SMWF	4* Mains Pressure (7.5 l/min),
FX SMAP, FZ SM, GZ SMAP, GZ SM40 BLK, SE SMAP, SF SM, ST SM, ST XSM, TA2 SM DEA SMWF	3* Mains Pressure (9 l/min), 3* Low Pressure (9 l/min)
SL SM GNECK, SL SMPOH, SL SMPS, IP SM, FZ SMCS 2, RF SM GNECK, RF SMCOIL, KI SM GNECK, TA2 SMPS	3* Mains Pressure (9 l/min)

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. Only those with a WELS low pressure rating in the above list, are also suitable for low pressure systems.

Conditions of Use

The sink mixers should be installed by a registered plumber following best practice.

Sink mixers can be mounted through a variety of bench top thicknesses. See technical specifications for each product. For thick benches we can supply longer fittings if requested. If mounting through stainless steel a loadspreader is always recommended for added rigidity. This is supplied with our tall mixers. And if mounting through laminate benches be aware that the waterproof nature of the finish is compromised as soon as a hole is drilled through the laminate surface to mount the tap. The compromised surface should be sealed and if a dress ring is provided this should be glued to the bench top for peace of mind and also to limit movement.

Aquatica cannot be held responsible for water damage to a laminate benchtop which has not, or cannot be, effectively sealed after the hole has been drilled nor where the tap has been over-tightened and damaged the bench.

The temperature limit for Aquatica tapware is 80 degrees.

The operating pressure for all Aquatica sink mixers is between 150 and 600kPa for mains pressure mixers and between 35 and 600kPa for low pressure mixers. The exception with regard to pressure minimums on the Aquatica sink mixers for Mitre 10 is the **ST SMPS** - Stream Sink Mixer with Pullout Spray - which has a minimum pressure 65 kPa.

The absolute maximum for all of these mixers is 1000kPa, but there are 2 things to consider. Firstly, that water pressure spikes at night when nobody is running any taps, and can therefore easily exceed the maximum of 1000kPa. And secondly, consider what the Building Code now requires, shown on the next page.

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 water delivered from taps that are accessible to children should not exceed 40°C.)

Sink Mixers (standard hob-mounted and wall-mounted)

Where the mixers are suitable for both mains and low pressures, they are supplied ready for low pressure installations. 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 its way 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 occurring. Those mixers which are suitable for both mains and low pressures have a high quality, german Neoperl flow regulator installed to reduce the likelihood of a backflow issue and also makes it easier to achieve a warm mix during operation.

For a **Standard hob-mounted Sink Mixer**, the flow regulator is a 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. 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.

For a **Wall-mounted Sink Mixer** the flow regulator is an ENT type, installed in the cold eccentric, again designed to limit the flow on cold water to more closely match the hot.

Sink Mixers with Spray - ST SMPS

This Sink Mixer with Pullout Spray achieves its WELS rating for mains pressure, from the pressure compensating washer (PCW) installed in the connection between the tap body and the hose. This PCW should be removed for low pressure installations. Be aware the Mixer requires a minimum of 65kPa to function properly. This mixer is also fitted with two non-return valves, one on either side of the connection between the hose and the spray head. These are a safety measure in the unlikely event that the spray head is dropped into a vessel of contaminated water. These valves provide back-flow prevention to ensure that the dirty water cannot be syphoned back through the line to contaminate the water supply.

Other Sink Mixers with Spray

All other mixers with spray are also fitted with non-return valves for back-flow prevention.

Sink Mixer with Water Filter

The DEA SMWF achieves its WELS rating by way of a pressure compensating aerator (PCA). The OL SMWF achieves its WELS rating from a regulator located under the cartridge.

The US filter that comes with this mixer is a two-media cartridge for superior filtration qualities for around 2 years or 30,000 litres. The KDF media also provides a bacteriostatic effect which is hostile to algae, fungi and bacteria. It is also cyst safe.

Maintenance Requirements

Some of the Sink mixers are chrome. Chromium electroplated tapware is amongst the hardest 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. All finishes are vulnerable to scratching.

Sometimes debris in the water line can make its way into the aerator at the end of the spout of your sink 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.

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. For sink mixers Aquatica Isolator Filter Stops can be installed in the cupboard 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.

Flexible Tails

Apart from the wall-mounted mixers, the flexible tails on the Sink Mixers are made with a waterproof lining to prevent leaking, then covered with 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. 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 will 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.

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

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	China, Germany, Hungary
Legal and trading name of manufacturer and importer	AQUATICA NZ LIMITED
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Manufacturer/Importer NZBN	9429000023962
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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.*