

## Aquatica Handshower Sets (and Spray Heads Only)

Product Disclosure Information Self-Assessment

Version: V1

<b>Product Name</b>	Aquatica Handshower Sets and Hand-held Heads
<b>Product Line</b>	Aquatica Tapware
<b>Product Identifier</b>	<p><b>Mains Pressure Sets</b>  AJ MS FITSALL, AJ MSHSS, CA MSHSS, CC MSHSS, DE MSHSS, FM MSHSS, HX MSHSS, KD SSHSS, MH MSHSS, MI MSHSS LUX, PR MSHSS BE RD, PR MSHSS BE SQ, PR MSHSS SE RD, PR MSHSS SE SQ, PV MSHSS, QU VSHSS, SM MSHSS, SM MSHSSPLUS, SN MSHSS, TL MSHSS, XE MSHSS, ZN MSHSS</p> <p><b>Sets Suitable For All Pressures</b> (above 35kPa)  AJ SS FITSALL, AJ SSHSS, AZ SSHSS, CC SSH HOLDER, CC SSHSS, DE SSHSS, DEL SSHSS, DJ SSHSS, GO SSHSS, GO SSHSS AP, MH SSHSS, MI SSHSS WE, MM SSHSS, OB SPA SSHSS, OBT SSHSS 2, PR SSHSS BE RD, PR SSHSS SE RD, PV SSHSS, SA SSHSS, SM SSHSS, SM SSHSSPLUS, SN SSHSS, SQ SSHSS, TL SSHSS, ZN2 SSHSS, PT HOBMOUNT,</p> <p><b>Heads Only - Mains Pressure</b>  AJ MSH, CA MSH, DE MSH, EM MSH, FM MSH, HX MSH, KD SSH, MH MSH, MI MSH, MM MSH, PR MSH, QU VSH, SN MSH, ZN MSH,</p> <p><b>Heads Only - Suitable for all pressures</b> (above 35kPa)  AJ SSH, AZ SSH, DJ SSH, GO SSH, MH SSH, MM SSH, OB SPA SSH, OBT SSH, PR SSH, PT SSH, SA SSH, SG SSH, SN SSH, ZN2 SSH</p>

### Product description

Aquatica Handshowers with Slide Rails in sets including hose and wall elbow. Handshower heads on their own. Some suitable for all pressures above 35kPa and some suitable for mains pressure only. See list above for breakdown. (Wherever products are available in multiple colours only the core code is listed. This sheet also covers 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 G12.3.2, 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:** Aquatica tests their Handshowers to check for good flow rates and checks the railsets to ensure they are robust before adding them to a range to make sure they will stand up to daily use by multiple people in a household. Only good quality shower hoses are used in their sets and Aquatica includes a robust solid brass wall elbow to accompany each set (except those with a built-in elbow). Aquatica handshowers have a 2 year residential warranty.\*\*

The handshowers are assembled and packaged in New Zealand. Only high quality German pressure compensating washers (PCW) from Neoperl are used in Aquatica handshowers. These regulators reliably limit flow to achieve the relevant water efficiency star rating under WELS for mains pressure.

**E3 Internal Moisture: E3.3.5** Any penetrations through the lining of a shower enclosure in order to mount the handshower should be sealed to prevent water ingress into the wall cavity. The smooth surfaces of the handshowers are easy to wipe clean thereby reducing mould growth or surface contamination.

**G12 Water Supplies G12.3.2** In the event that the spray head on the handshower set could potentially reach the toilet bowl or basin, then a double non-return valve should be installed to prevent back-flow of contaminated water through the line and into the main water supply. The same applies if a handshower is mounted over a bath. These are available from Aquatica if required.

**G12.3.5** These fixtures are intended to supply hot and cold water as required for personal washing, or showering.

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

**H1 Energy Efficiency: H1.2** All the handshowers are covered by WELS, (the Water Efficiency Labelling Scheme), and are supplied with high quality German Neoperl flow regulators to reliably limit flow to achieve their relevant star ratings on mains pressure. For low pressure installations, the flow regulator is not used.

## Scope of Use

The Aquatica Handshowers are intended for accommodation and residential use. They are suitable for both hot and cold water use, and with mains or low pressure systems depending on the head used. See the list above for a breakdown of mains and low pressure products.

## Conditions of Use

The Aquatica handshowers should be installed by a registered plumber following best practice. All penetrations through a shower lining should be sealed to prevent water ingress into the wall cavity.

With the exception of KD SSH, the **Single Spray Handshowers (SSH and SSHS)** are suitable for all pressures above 35kPa. However, the **Multispray Handshowers (MSH and MSHS)** which generally come with 3 operating functions, are suitable for mains pressure only, in order for the alternative spray options to operate properly. (Minimum 150kPa)

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. And secondly, consider what the Building Code now requires, 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.)

**The Handshowers** are supplied with a Pressure Compensating Washer (PCW) which is only required to be fitted in mains pressure situations. This is typically in the elbow end of the shower hose. It should be fitted so that the water direction is towards the little black oring on the PCW.

There are 2 reasons for installing the PCW into the wall elbow end of the shower hose. Firstly, because the hose is then more flexible during operation and secondly because it prevents the shower hose taking the brunt of any build up of pressure that might occur behind the PCW.

In the event that the spray head on the handshower set could potentially reach the toilet bowl, bath or basin, then a double non-return valve should be installed to prevent back-flow of contaminated water through the line and into the main water supply. These are available from Aquatica if required.

## Maintenance Requirements

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 wipe dry with a clean cloth. This is especially necessary for decorative coloured tapware.

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.*)

## Warnings and Bans

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

## Contact details

<b>Manufacture locations</b>	New Zealand, China, Germany
<b>Legal and trading name of manufacturer and importer</b>	AQUATICA NZ LIMITED
<b>Manufacturer/Importer Address for Service</b>	9 Saunders Place, Avondale Auckland 1026
<b>Manufacturer/Importer Website</b>	<a href="http://www.aquatica.co.nz">www.aquatica.co.nz</a>
<b>Manufacturer/Importer NZBN</b>	9429000023962
<b>Manufacturer/Importer Email</b>	<a href="mailto:info@aquatica.co.nz">info@aquatica.co.nz</a>
<b>Manufacturer/Importer Phone Number</b>	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

**G12.3.2** A potable water supply system must be a) protected from contamination; and b) installed in a manner that avoids the likelihood of contamination within the system and the water main; and c) installed using components that will not contaminate the water.

**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](http://www.aquatica.co.nz).*