

# SINTEF Technical Approval

## TG 20948

SINTEF confirms that

## Aquis Conditioned Water Unit systems

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document



### 1. Holder of the approval

Aquis Systems AG  
Balgacherstrasse 17  
9445 Rebstein  
Switzerland

### 2. Product description

Aquis Conditioned Water Unit systems is a faucet which provides boiling water from a separate water boiler. The faucet is delivered as an integrated solution. Some versions can also supply chilled, filtered or carbonated water.

The product mainly consists of a tap, a water heater/cooler with a reducing valve, a safety valve and certified hoses.

The product is normally installed inside a kitchen counter.

### 3. Fields of application

Aquis Conditioned Water Unit systems is installed in the kitchen as an integrated solution as a replacement for a traditional kitchen tap. The product is used for cooking and cleaning. Examples:

- Sterilization of cutting boards and knives.
- Preparation of coffee, tea etc.
- Boiling potatoes, pasta etc. (preheating)
- Cleaning of pots and cookware.
- Carbonated water
- Filtered, chilled water

### 4. Product performance

#### *Watertightness*

Safety valve has passed functional testing according to EN 1488.  
Drain fitting has passed functional testing according to EN 817.  
Water filter has passed functional testing according to NSF/ANSI 42.  
Inlet valve/reducing valve has been tested according to EN 1567 and NT VVS 100.

#### *Certified hoses*

Aquis Conditioned Water Unit systems use supply hoses with SINTEF Product Certificate, PS 1540.

#### *Drain*

Overflow from the safety valve is led to the drain via a flexible drain hose. The overflow arrangement is tested according to NT VVS 129 and EN 476.

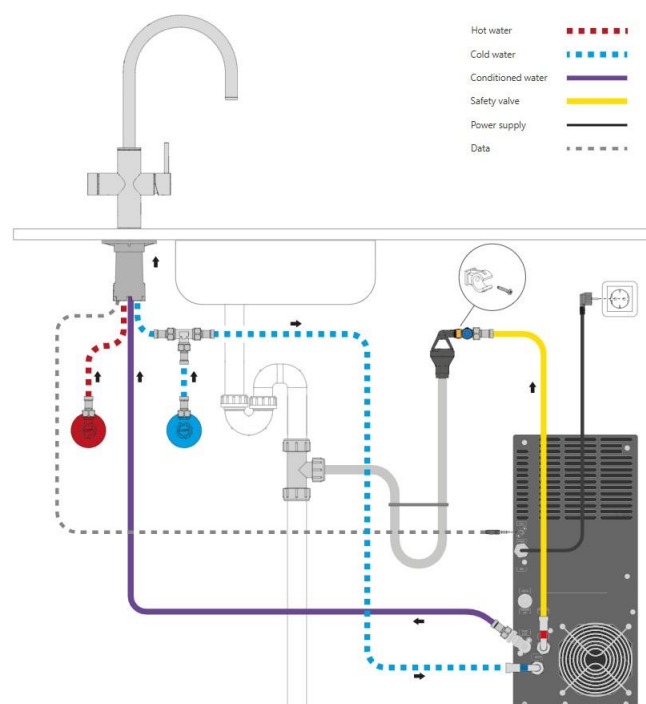


Fig. 1

Tap with boiling water og chilled/filtered/carbonated water

Figur: Aquis Systems AG

#### *Scald Protection*

Aquis Conditioned Water Unit systems use a two-step solution to activate boiling water. A switch must be pressed and turned in a given combination to dispense water, see manufacturer's instructions.

#### *Backflow prevention*

A non-return valve is installed on the inlet of the main unit

SINTEF is the Norwegian member of European Organisation for Technical Assessment, EOTA, and European Union of Agrément, UEAtc

Table 1

Products covered by the approval

Product	Item no.	Component				
		Main unit	Tap	Filter	Supply hose	Connection set
All in One	100618-00	101526-00 CWU	100077-00 OD45	100365-00 Claroswiss	4049456 – DN6 4069458 – DN8 Platinos SLC	101328-01
Sparkling	101352-00	101528-00 CCU	100077-00 OD45	100365-00 Claroswiss	4069458 – DN8 Platinos SLC	100445-02
Water hub boiling 4L	100276-00	100303-00 Basic boiler 4L	100077-00 OD45	100068-00 Claroswiss		100070-00
Water hub boiling 7L	101223-00	101554-00 Basic boiler 7L	100077-00 OD45	100068-00 Claroswiss		100070-00

Table 2

Functionality

Product	Item no.	Function				
		Boiling water	Filtered, chilled water	Filtered water	Chilled, carbonated water	Chilled, carbonated water «medium»
All in One	100618-00	X	X	X	X	X
Sparkling	101352-00		X	X	X	X
Water hub boiling 4L	100276-00	X				
Water hub boiling 7L	101223-00	X				

Table 3

Technical data - All in One/Sparkling

General info	
Ambient temperature	10-32 °C
Relative humidity	Max 75 %
IP class	IPx1
Installation height	Max. 2000 m above sea level
Minimum installation dimensions	H= 44 cm, W=20 cm, D=55cm
Capacity	2,2 L - Chilled 0,6 L - Carbonated 4,0 L - Boiling
Electrotechnical data	
Plug	Grounded plug, 10 A
Voltage	230 V AC
Max power consumption	1725 W
Standby power consumption	19 W

## 5. Environmental aspects

### Substances hazardous to health and environment

Aquis Conditioned Water Unit systems contain no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

### Effect to potable/drinking water

Aquis Conditioned Water Unit systems is evaluated to emit no substances to drinking water in amounts that can cause taste, smell or is dangerous to the health.

### Waste treatment/recycling

Aquis Conditioned Water Unit systems shall be sorted as metals and residual waste. The product shall be delivered to an authorized waste treatment plant for material- and energyrecycling.

Table 4

Technical data - Water hub boiling

General info	
Ambient temperature	4-40 °C
Relative humidity	Max 85 %
IP class	IPX4
Installation height	Max. 2000 m above sea level
Minimum installation dimensions	H= 34 cm, Ø 23cm
Capacity	4 L 7 L
Electrotechnical data	
Plug	Grounded plug, 10 A
Voltage	230 V AC
Max power consumption	2000 W
Standby power consumption	14 W

## 6. Conditions of use

### Leakage prevention

Aquis Conditioned Water Unit systems shall always be installed with an approved active leakage detection system in the kitchen counter. Taps and other system components must be installed in such a way that possible leakages will not damage other installations or building parts.

### Installation

After installation, the tap and its components shall be easily accessible for maintenance and replacement of parts. When installed, only components from the approved system must be used, see Table 1.

System components must be installed according to the installation manual.

*Cleaning/maintenance*

The installation manual is to be used. Cleaning of the system should be done every 6 months. It is recommended to replace the water filter after 12 months of use.

*Voltage*

The product is dependent on electricity to function as intended. The system's power supply is based on 230 V mains voltage.

*Drainage*

Excess water from the boiler is led to the drain in the kitchen counter via the included safety valve and drain pipe.

**7. Product and factory production control**

Aquis Conditioned Water Unit systems are produced by Aquis Systems AG, Balgacherstrasse 17, 9445 Rebstein, Switzerland. Subcomponents are made in Italy for Aquis Systems AG.

The holder of the approval is responsible for maintaining the factory production control to ensure that the product is manufactured in compliance with the preconditions upon which this approval is based.

The manufacturing of the product(s) and the manufacturer's system for factory production control (FPC) is subject to continuous surveillance in accordance with the contract regarding SINTEF Technical Approval.

The manufacturer has a quality management system certified according to EN ISO 9001.

**8. Basis for the approval**

Aquis Conditioned Water Unit systems' characteristics are documented in reports issued by independent bodies. The technical documentation serves as the basis for SINTEF's product assessment with respect to the guidelines for SINTEF Technical Approval.

**9. Marking**

Aquis Conditioned Water Unit systems' main components are marked with the manufacturer's identity symbol and product name.

The approval mark for SINTEF Technical Approval TG 20948 may also be used.

**10. Liability**

The holder/manufacturer has sole product liability according to current law. Claims can only be made against SINTEF under general law or other special grounds.

for SINTEF



Hans Boye Skogstad  
Approval Manager