

SINTEF Technical Approval

TG 20974

SINTEF confirms that

Franke Water Hub

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

Franke Küchentechnik AG
Franke-Strasse 2
4663 Aarburg
Switzerland
www.franke.com

2. Product description

Franke Water Hub 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

Franke Water Hub 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

Franke Water Hub uses 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.

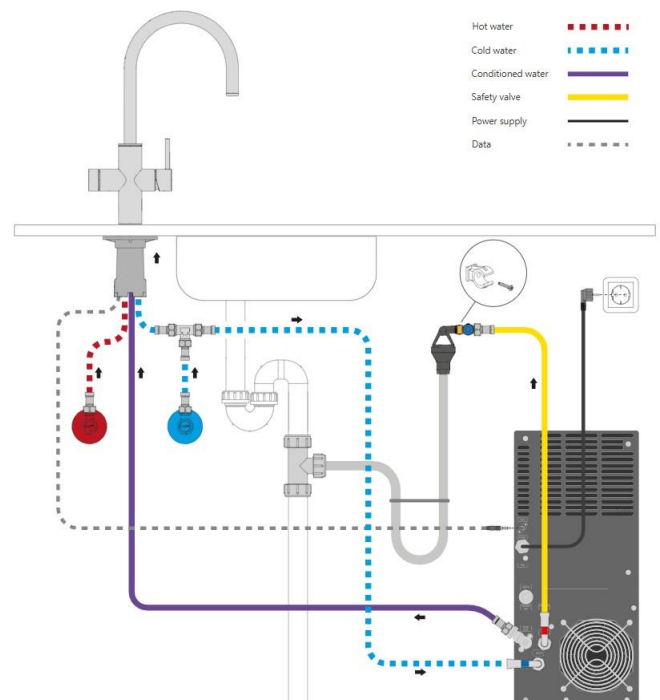


Fig. 1

Tap with boiling water og chilled/filtered/carbonated water
Figure: Franke Küchentechnik AG

Scald Protection

Franke Water Hub uses 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
Mythos Water Hub All in One	160.0708.955	120.0708.957	119.0698.122	150.0717.797	4049456 – DN6 4069458 – DN8	133.0725.091
Mythos Water Hub Sparkling	160.0708.956	120.0708.959	119.0698.122	150.0717.797	4069458 – DN8	133.0725.091
Maris Water hub 4L	160.0702.531	119.0697.146	119.0698.122	120.0305.558		133.0702.237
Maris Water hub 7L	160.0715.718	119.0720.915	119.0698.122	120.0305.558		133.0702.237

Table 2
Functionality

Product	Item no.	Function				
		Boiling water	Filtered, chilled water	Filtered water	Chilled, carbonated water	Chilled, carbonated water «medium»
Mythos Water Hub All in One	160.0708.955	X	X	X	X	X
Mythos Water Hub Sparkling	160.0708.956		X	X	X	X
Maris Water hub 4L	160.0702.531	X				
Maris Water hub 7L	160.0715.718	X				

Table 3
Color variants

Product	Item no.	Color variant Item No.				
Mythos Water Hub All in One	160.0708.955	160.0731.752	160.0731.755	160.0731.758	160.0731.761	
Mythos Water Hub Sparkling	160.0708.956					
Maris Water hub 4L	160.0702.531	160.0702.518	160.0709.048	160.0702.440	160.0737.302	160.0737.301
		160.0737.250				
Maris Water hub 7L	160.0715.718	160.0713.604	160.0713.606	160.0713.580		

Table 4
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

Table 5
Technical data - Water hub 4L/7L

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

5. Environmental aspects

Substances hazardous to health and environment

Franke Water Hub contains 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

Franke Water Hub 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

Franke Water Hub shall be sorted as metals and residual waste. The product shall be delivered to an authorized waste treatment plant for material-and energyrecycling.

6. Conditions of use

Leakage prevention

Franke Water Hub 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

Franke Water Hub is produced in Switzerland and Italy for Franke Küchentechnik 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

Franke Water Hub's 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

Franke Water Hub's main components are marked with the manufacturer's identity symbol and product name.

The approval mark for SINTEF Technical Approval TG 20974 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