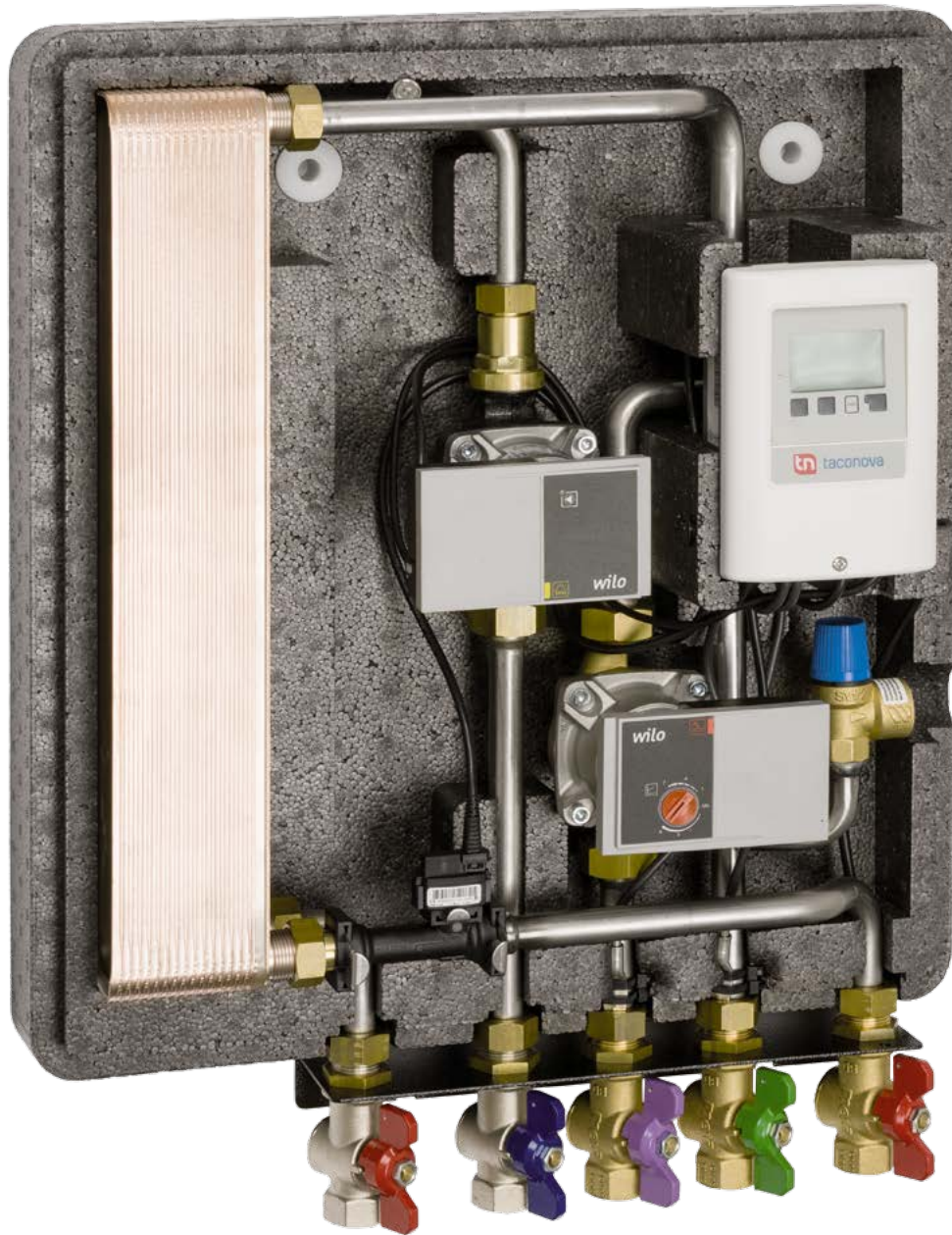


TACOTHERM FRESH MEGA

FRESH WATER STATION WITH AND WITHOUT CIRCULATION



OPERATING MANUAL

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1 About this document

1.1 Using these instructions

These instructions are included with the product.



- ▶ Read the instructions carefully before use.
- ▶ Keep these instructions during the lifetime of the product.
- ▶ Ensure the instructions are available to operating, maintenance and service personnel at all times.
- ▶ Pass on the instructions to any subsequent owner, operator or user.

1.2 Symbols and notational conventions

Warning notices


Warnings are used in this manual to warn of damage to property and personal injury.

- ▶ Read and observe warnings.
- ▶ Follow all measures that are marked with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	WARNING	Danger to persons. Failure to comply can result in death or serious injury.
	CAUTION	Danger to persons. Failure to comply may result in minor injury.
-	NOTE	Instructions for avoiding property damage or for understanding or optimizing the workflows.

Additional symbols and notational conventions

Important information and technical notes are highlighted specifically to illustrate correct operation.

Symbol	Meaning
	Indicates „Additional Information“. For understanding and for optimizing workflows.
▶	Symbol for an action: You have to do something here. In case of a series of actions, make sure to observe the correct sequence.

1.3 Revisions and validity

Valid for TacoTherm Fresh Mega fresh water station constructed from 01/2014

Document version	Date	Comment
Version 3.2015	02/2014	Current version on taconova.com

1.4 Abbreviations

Abbreviation	Meaning
DN	Diameter Nominal
G	Fastening thread, cylindrical, as per ISO 228
R	Pipe thread/outer thread as per ISO 7/DIN 2999
Rp	Pipe thread/inner thread as per ISO 7/DIN 2999
PB	Max. operating pressure as per DIN 2401
TB	Max. operating temperature as per DIN 2401
k_{vs}	Characteristic value in reference to a volume flow of 1 m ³ /h and a pressure loss of 1 bar at 100 % valve lift

1.5 Other applicable documents

Document	Comment
Data sheet	Current version on taconova.com
Controller operating instructions	Current version on taconova.com

2 Safety information

2.1 Intended use

- ▶ The fresh water station should be used exclusively in combination with a storage tank for heating drinking water in closed heating systems.

INFORMATION



Any other use is deemed improper. The manufacturer is not liable for any resulting damages. The risk is borne solely by the user.

- ▶ Note all instructions in this manual and the applicable documents.
- ▶ Note the maximum operating limits: Section 18, Technical data, Page 17

2.2 Improper use

INFORMATION



Any use other than in this manual and in the other applicable documents is improper. The manufacturer is not liable for any resulting damages. The risk is borne solely by the user.

- ▶ Direct connection of the fresh water station to a heat generation unit (for example a boiler or solar circuit) is prohibited.
- ▶ Do not use the fresh water station in the following areas:
 - Outdoors
 - Damp rooms
 - Rooms in which the use of electrical equipment is prohibited
 - Frost risk areas

2.3 Staff qualification

The fresh water station may only be installed, maintained and repaired by authorized, trained and qualified personnel.

- ▶ Use only qualified personnel who have the necessary training and experience to identify risks and avoid potential hazards.
- ▶ Define responsibilities for personnel in accordance with their qualifications and job description.
- ▶ Ensure that the following requirements are fulfilled:
 - Employees have read and understood these operating instructions.
 - Employees have been informed about possible dangers.
 - Employees know and observe the applicable accident prevention and safety regulations

2.4 Safety measures

- ▶ Keep the work area clean and free of obstructing objects.
- ▶ Ensure sufficient lighting.
- ▶ Keep children, pets and unauthorized persons away from tools and assembly areas.
- ▶ Store hazardous substances and liquids safely and not in the vicinity of the station.
- ▶ Only allow qualified personnel to work on the system.
- ▶ Materials and components used on site must be suitable for the intended purpose without any restrictions; moreover, they must be inspected or approved by the manufacturer and conform with the applicable laws, standards, guidelines and specifications.
- ▶ Use only appropriate materials and components.
- ▶ Do not make any unauthorized changes to the fresh water station.

The controllers for the fresh water station and the pumps are operated with electric power.

- ▶ Disconnect the system from the mains before beginning maintenance, service and repair work and secure against unintended reconnection.

Operation

- ▶ If damage occurs to the system:
 - Put the system out of service.
 - Do not continue to operate the system.

Maintenance and repair

- ▶ Never allow the operator to remove the hood and make repairs.
- ▶ Only allow qualified personnel to make repairs to the system.
- ▶ Only use original spare parts.

Fire prevention

- ▶ Note applicable fire protection regulations and valid building codes / building regulations. Especially in the following cases:
 - When breaking through ceilings and walls
 - In rooms with special / stricter requirements for fire prevention measures

2.5 Residual risks

Water quality

- ▶ Take account of corrosion protection and sludge formation in the planning according to DIN 1988-7 and drinking water analyses (according to DIN 50930 Part 6).
- ▶ Regularly perform checks according to DIN 1988.

2.6 Prevention of damage to property

On-site heating system

- ▶ Flush the on-site heating system sufficiently prior to installing the station.

Safety equipment in the primary circuit

- ▶ Please observe VDI Directive 2035 (Sheet 1 and 2) for planning, assembly and operation.
- ▶ Schedule and install the safety valve in the primary circuit..

Safety equipment in the secondary circuit

The on-site system has a safety valve in the secondary circuit.

- ▶ Provide a discharge pipe according to DIN 1988 for the secondary circuit.

Repairs

- ▶ Only allow qualified personnel to make repairs to the system.
- ▶ Only use original spare parts.

Materials and components used on site must be suitable for the intended purpose without any restrictions; moreover, they must be inspected or approved by the manufacturer and conform with the applicable laws, standards, guidelines and specifications.

- ▶ Use only appropriate materials and components.
- ▶ Do not make any unauthorized changes to the fresh water station.
- ▶ If damage should occur to the system: Do not continue to operate the system.

3 Tools and equipment

- ▶ Do not use pipe wrenches when assembling valves and for screw connections with wrench flats.
- ▶ Use conventional tools and materials.

4 Scope of delivery

Materials	Number of	Comment
TacoTherm Fresh Mega fresh water station	1	With circulation and storage loading (optional)
Fastening screws	4	Mounting material for wall installation
Dowels for masonry	4	Mounting material for wall installation
Controller	1	Pre-assembled ready for connection
Ball valves	4 or 5	In accordance with design
Hood	1	Preassembled
TacoTherm Fresh Mega Operating manual	1	Enclosed
Controller operating instructions	1	Enclosed
Switching valve documentation	1	Enclosed in accordance with design
Pump documentation	2	Enclosed

5 Product description

5.1 Fresh water station

Structure

INFORMATION



The fresh water station is fully preassembled and supplied with ready-to-connect wiring.

The components of the fresh water station are assembled on a base plate.

Components

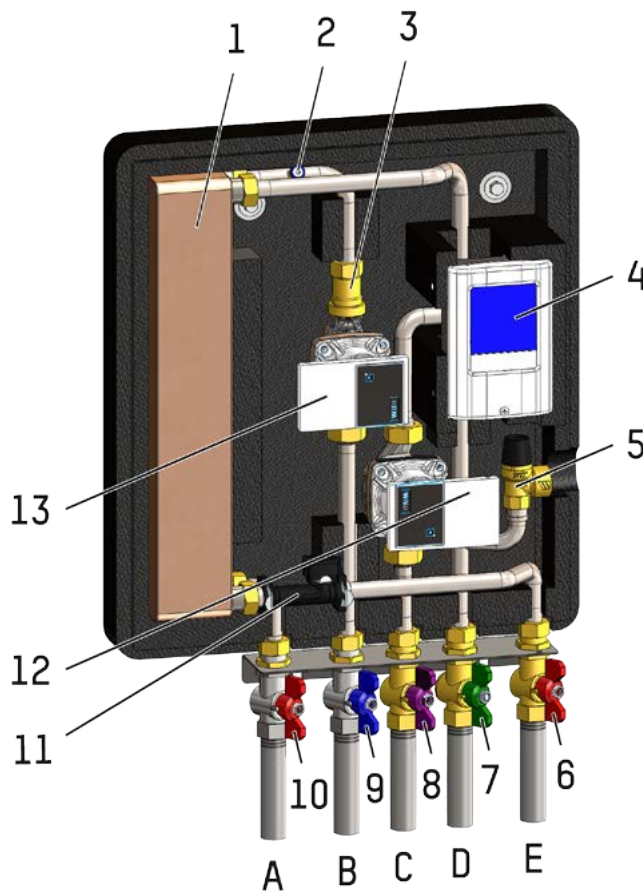



Abb. 1 TacoTherm Fresh Mega fresh water station with and without circulation

- | | | | |
|----|--------------------------------------|---|----------------------------------|
| 1 | Plate heat exchanger | A | Primary heating flow |
| 2 | Automatic air vent | B | Primary heating return |
| 3 | Non-return valve primary circuit | C | Circulation connector (optional) |
| 4 | Controller | D | Secondary cold water connection |
| 5 | Safety valve secondary side | E | Secondary hot water connection |
| 6 | Ball valve secondary side hot water | | |
| 7 | Ball valve secondary side cold water | | |
| 8 | Ball valve circulation (optional) | | |
| 9 | Ball valve primary side return | | |
| 10 | Ball valve primary side flow | | |
| 11 | Flow rate and temperature sensor | | |
| 12 | Circulation pump (optional) | | |
| 13 | Primary pump | | |

Role

The TacoTherm Fresh Mega fresh water station heats drinking water on demand in accordance with the cyclical flow principle in conjunction with a storage tank for existing and new heating systems, solid fuel boilers, heat pumps and solar systems.

Type plate

	
Typ:	Frischwarmwasserstation TacoTherm Fresh Mega Artikelnummer: 27X.5X23.000
Primärseitig	
-Max. Betriebstemperatur:	95 °C
-Max. Betriebsdruck:	3 bar
Sekundärseitig	
-Max. Betriebstemperatur:	95 °C
-Max. Betriebsdruck:	10 bar
Elektrische Anschlussdaten	
-Netzspannung:	230 VAC ±10%
-Netzfrequenz:	50...60 Hz
-Schutzart:	IP 40
Leistungsaufnahme	
max. 146 W	

Type

Fresh Hot Water Station
TacoTherm Fresh Mega
Article Number: ...

Primary side

- Max. operating temperature: 95 °C
- Max. operating pressure: 3 bar

Secondary side

- Max. operating temperature: 95° C
- Max. operating pressure: 10 bar

Electrical connection data

-Mains voltage: 230 VAC +/-10%
-Mains frequency_ 50...60 Hz
-Protection type: IP 40

Power consumption

Max. 146W

5.2 Controller

Product description according to external instructions for controllers.

5.3 Pumps

Product description according to documentation for pumps.

6 Storage and transport

6.1 Transport

- ▶ Two persons are needed to transport the fresh water station.
- ▶ The fresh water station may only be transported horizontally (controller facing upward).

For longer journeys:

- ▶ Transport the fresh water station in its original packaging.
- ▶ Transport the station using suitable lifting and handling equipment.

6.2 Storage

- ▶ Store the fresh water station for long periods in dry, dust-free and frost-free rooms only and in its original packaging.

7 Assembly

7.1 Requirements for the installation site

CAUTION!

There is a risk of injury and damage to the wall and fresh water station if the fresh water station falls down!

- ▶ Make sure the wall is sufficiently load-bearing.

- ▶ Make sure that the installation location is near the storage tank.
- ▶ Make sure that the room is dry and frost-free.
- ▶ Make sure a mains connection of adequate performance is available:
 - with protection
 - positioned to the right of the fresh water station
 - at max. distance of 1.5 m to the fresh water station

7.2 Wall-mounting the fresh water station

CAUTION!



There is a risk of injury if the fresh water station falls down!
 Weight of fresh water station without water: approx. 25 kg
 ▶ Remove the fresh water station from its packaging using two persons.

- ▶ Position the fresh water station with the base plate on a level surface.
- ▶ Remove the hood together with the plastic surround.

NOTE!

There is a risk of damage to the fresh water station if it falls down!
 ▶ For wall mounting, use all four mounting points on the base plate.

- ▶ Use the supplied mounting material.
- ▶ Drill holes for all mounting points.
 - Size: **see diagram.**

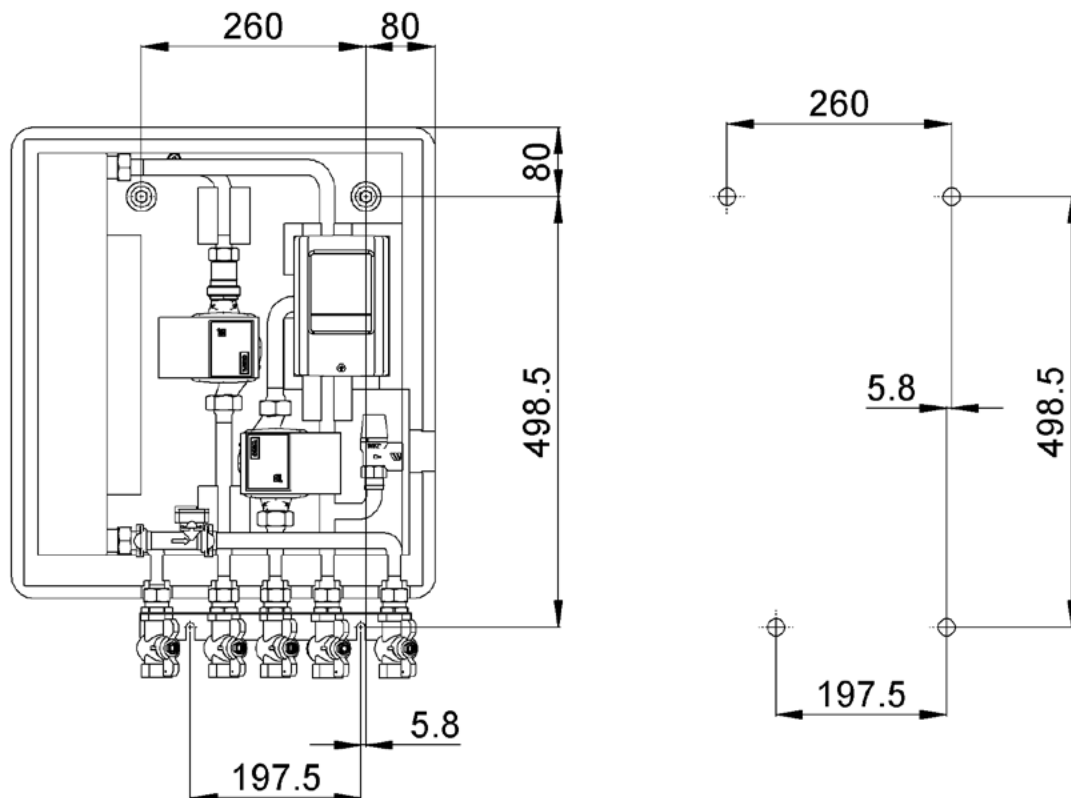


Abb. 2 Mounting points

- ▶ Insert the supplied dowels into the holes.
 - Use dowels appropriate for different masonry if necessary.

CAUTION!



There is a risk of injury if the fresh water station falls down!
 Weight of fresh water station without water: approx. 25 kg
 ▶ At least two persons are needed to assemble the fresh water station.

- ▶ Position the fresh water station and fix it to the wall.
 - ▶ Screw in and tighten the four fastening screws supplied in the drill holes
- The fresh water station is now assembled.

8 Installation

8.1 Installation requirements

- ▶ Make sure that the existing piping (pipes and connections) is checked for leaks.
- ▶ Make sure that flexible connecting cables are not twisted or kinked.
- ▶ Make sure that the existing piping is adequately insulated.
- ▶ Make sure that the safety valve drain is connected.
- ▶ Install rinsing valves in the cold water, hot water and circulation pipe.
- ▶ Flush the cold water, hot water and circulation pipe (depending on the design)

NOTE!

Connections may be damaged by warping during installation!

- ▶ Attach connecting cables without strain to the fresh water station.
- ▶ Hold in place when tightening the screws.

NOTE!

The fresh water station may be damaged as a result of water hammers!

Closing and opening the water intake points too quickly may lead to water hammers.

- ▶ Install water hammer arrestors on site in accordance with the manufacturer's instructions.

NOTE!

Increased calcification is possible depending on the water composition and operating conditions.

- ▶ Take account of corrosion protection and sludge formation according to DIN 1988-7 and water analyses (according to DIN 50930 Part 6).

8.2 Connecting a secondary circuit

- ✓ On-site piping sufficiently flushed
- ✓ Pipes to outlets closed
- ✓ Secondary cold water connection closed

8.2.1 Connecting a cold water pipe

- ✓ Safety equipment available on site
- ✓ Cold water supply closed

INFORMATION



A safety valve for intrinsic safety of the system is installed on the secondary side.

- ▶ Install an appropriate discharge pipe.

- ▶ Run discharge pipe so that there is no increase in pressure when the safety valve is actuated.
- ▶ Attach a plate to the discharge pipe with the following label: **Water may leak from the discharge pipe during heating for safety reasons! Do not close!**

INFORMATION

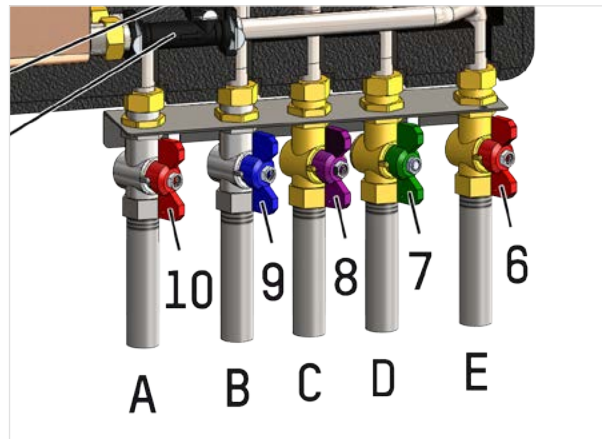


If mains pressure exceeds max. allowable operating pressure:

- ▶ Install and adjust a pressure regulator in the cold water supply (according to external instructions and DIN 1988).

- ▶ Install suitable water filters in the cold water supply.

- ▶ Run the piping to the fresh water station as per the planning.
- ▶ Install the ball valve (7).
- ▶ Connect the cold water pipe to connection (D).



8.2.2 Connecting a hot water pipe

- ✓ Safety equipment available on site

CAUTION!



There is a risk of scalding if the storage temperatures are allowed to exceed 60 °C!

- ▶ Install a suitable mixing valve as anti-scalding protection in the hot water pipe behind the fresh water station.
- ▶ Set the response temperature of the mixing valve to the same value as the max. hot water temperature.

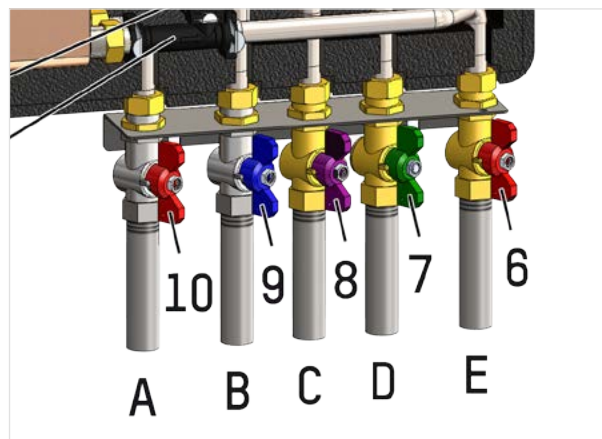
NOTE!

Pitting corrosion may cause damage to the pipes!

Copper ions dissolved in water can cause pitting corrosion on steel.

- ▶ Please note the technical regulations for mixed material installations. Install base metals before more precious metals in the direction of water flow.

- ▶ Run the piping to the fresh water station as per the planning.
- ▶ Install the ball valve (6).
- ▶ Connect the secondary hot water pipe to connection (E).



8.2.3 Connecting a circulation pipe (optional)

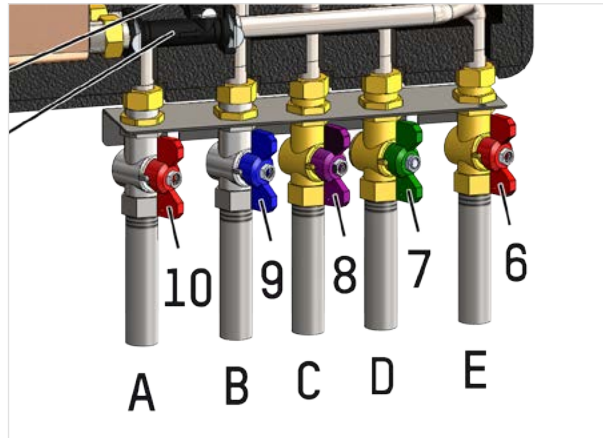
- ▶ Run the piping to the fresh water station as per the planning.
- ▶ Install the ball valve (8).
- ▶ Connect the circulation pipe to connection (C).

8.3 Connecting a primary circuit

- ▶ Install a suitable safety assembly (according to DIN 4753) with shut-off valve.

8.3.1 Connecting a primary heating flow

- ▶ Install the ball valve (10).
- ▶ Connect the primary hot water flow to connection (A).



8.3.2 Connecting a primary heating return

- ▶ Install the ball valve (9).
- ▶ Connect the primary hot water return to connection (B).

8.4 Electrical connection data

INFORMATION



The fresh water station is not protected against shorting and the like.

Electrical protection is country-specific and up to the user.

- ▶ Perform electrical protection on country-specific basis.

- ▶ Make sure that the electrical connection is supplied on site and complies with technical requirements.
- ▶ Plug the power cable for the controller (country specific or with adapter) into the socket.

9 Commissioning

9.1 Checking the installation

- ✓ Water quality checked

NOTE!

The pumps may be damaged from running dry!

- ▶ Make sure that the piping is properly sealed.
- ▶ Make sure that the pump is filled properly.

NOTE!

Pumps may be damaged due to excess pressure!

- ▶ Protect valves from being closed accidentally following installation using a lead seal.

- ▶ Check the following prior to startup:
 - Completeness of piping in the fresh water station
 - Piping for leak tightness
 - Correct installation of safety-related components
 - Water quality

9.2 Filling a primary circuit

- ✓ Installation checked
- ▶ Note backflow preventer in storage return.
- ▶ Fill and rinse the primary circuit.
- ▶ Fill and vent the storage tank.
- ▶ Vent pump, pipes and storage tank in primary circuit.

9.3 Filling a secondary circuit

- ✓ Installation checked
- ▶ Fill and vent the secondary circuit.
- ▶ Vent the fresh water station by running water (on the cold and hot water sides).
- ▶ Vent the circulation pump

9.4 Starting up the controller

- ✓ Primary circuit filled and vented
- ✓ Secondary circuit filled and vented
- ✓ System and piping checked for leak tightness
- ▶ Pumps may be damaged due to excess pressure.

NOTE!

- Pumps may be damaged due to excess pressure!**
- ▶ Do not close the shut-off valves between the fresh water station and the safety valves while the primary circuit pump is in operation.
 - ▶ Start up the controller.

INFORMATION



- The controller is adjusted at the factory.
- ▶ To change the controller settings, proceed as per the external instructions for controllers.

9.5 Checking the water heating

- ✓ Controller started up
- ▶ Run hot water.
- ▶ Check the water heating.
- ▶ Set the primary circuit pump to highest power level if necessary.

9.6 Concluding the startup

- ✓ System and piping checked for leak tightness
- ✓ Controller started up
- ✓ Water heating checked
- ▶ Clean the inside of the fresh water station of construction dirt.
- ▶ Attach the hood.
- ▶ Clean the outside of the system of construction dirt.

9.7 Handing off the system to the operator

- ▶ Instruct the system operator in the operation of the system (in accordance with operating instructions for controllers). Take note of the safety and maintenance periods.
- ▶ Note the defined parameters at handover in the log.
- ▶ Pass on all instructions to operator:
 - This Operating manual
 - operating instructions for components (controllers, etc. ...)

INFORMATION



Operators:

- ▶ Bring all instructions to the place of installation of the fresh water station or keep in the vicinity of the fresh water station.

10 Operation

- ▶ Operate the system according to external instructions for controllers.

11 Error messages and malfunctions

Error messages appear on the display of the controller (see external instructions).

- ▶ Contact qualified personnel in case of error messages and faults.

CAUTION!



Leaks can lead to injury or damage to property!

- ▶ Only allow qualified personnel to perform troubleshooting.

12 Service and maintenance

- ▶ Have the following points checked once a year by the operator and suitable qualified personnel:
 - Function
 - Leak tightness of the system and piping
 - Safety valve
 - Connection cable
 - Water quality
 - Visual monitoring
 - Wall mounting

WARNING!



Interference with electrical wiring may result in injury and damage to property!

- ▶ Only allow qualified personnel to perform maintenance.

- ▶ Perform maintenance once a year.

13 Decommissioning

- ▶ Disconnect the controller for the fresh water station from the mains.
- ▶ Close the water flow and return.
- ▶ Drain the primary and secondary circuit.

14 Removal

- ✓ Decommission the fresh water station
- ▶ Undo the screws on the fresh water station.

CAUTION!



There is a risk of injury if the fresh water station falls down!

Weight of fresh water station without water: approx. 25 kg

- ▶ Two persons are needed to disassemble the fresh water station.

- ▶ Undo the screws on the base plate. One person is needed to hold it.
 - ▶ Remove the fresh water station from the wall and set aside in a suitable location. Cover if necessary.
- The fresh water station is now disassembled

15 Cleaning and care

- ▶ Clean and maintain the controller according to the information in the external instructions.
- ▶ Do not use aggressive cleaning agents on the hood.
- ▶ Keep the hood clean, remove coarse dirt, dust and moisture regularly.

16 Disposal

The fresh water station contains components that comply with the European RoHS Directive 2002/95/EC for restricting the use of specific hazardous materials in electrical and electronic equipment.

- ▶ Do not dispose of the system and components in normal household waste.
- ▶ Dispose of the system and components at appropriate collection centers.

-or-

- ▶ Return the system to the seller or supplier.

17 Spare parts and accessories

Spare parts are available from taconova.com

- ▶ The following information is needed for ordering spare parts:
 - Article number
 - Serial number (see type plate)

Article number: See website taconova.com

18 Technical data

18.1 Design and operating data

18.1.1 Fresh water station

Parameter	TacoTherm Fresh Mega
Rated performance	22 l/min at 60°C hot water and 70° primary flow
Fresh water temperature	60 °C (at storage temperature of 70 °C)
Max. operating temperature (primary)	95 °C
Max. operating temperature (secondary)	95 °C
Max. operating pressure (primary)	3 bar
Max. operating pressure (secondary)	10 bar
Max. return temperature	30 °C
Discharge pressure DN 15 safety valve	10 bar
Primary pressure loss	See diagram in data sheet
Secondary pressure loss	See diagram in data sheet
Plate heat exchanger	Stainless steel 1.4401, copper-soldered
Primary circulation pump	Wilo Yonos Para 15/7.5 (3 - 76W)
Circulation pump	Wilo Yonos Para Z 15/7.5 (5 - 70W)
Primary pressure loss	See data sheet
Secondary pressure loss	See data sheet
Measurement range for dispensing flow rate	1 to 40 l/min

Electrical connection data

Parameter	TacoTherm Fresh Mega
Mains voltage	230 VAC ± 10 %
Mains frequency	50...60 Hz
Power consumption	Max. 146W
Protection standard	IP 40

18.1.2 Controller

Technical data according to external instructions for controllers.

18.2 Dimensions and insulation

Parameter	TacoTherm Fresh Mega
Max. W x H x D insulated	W 490 mm x H 637 mm x D 181 mm
Weight without water content	approx. 14 kg
Hood	Designer hood made from EPP
Insulation	Integrated EPP

18.3 Connections

Connection	TacoTherm Fresh Mega
Hot water primary / storage water flow	DN 1" IG (internal thread)
Hot water / storage water return	DN 1" IG (internal thread)
Secondary connection	TacoTherm Fresh Mega
Circulation	DN 1" IG (internal thread)
Cold water	DN 1" IG (internal thread)
Hot water	DN 1" IG (internal thread)

See data sheet for performance charts.

18.4 Storage conditions

- Store dry, dust and frost-free in original packaging.

19 Contact

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 D-78224 Singen
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20 Standards and regulations

See technical information for **TacoTherm Fresh Mega**

CE marking

Parameter	TacoTherm Fresh Mega
Pumps and controllers	CE conformity according to the following EU directives: 2006/95/EC (Low Voltage Directive) 2004/108/EC (EMC Directive)
Heat exchanger	CE conformity according to the following EU directives: 97/23/EC (Pressure Equipment Directive)



Hydraulischer Abgleich | Verteilertechnik | Systemtechnik | Armaturentechnik

**CE
KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY
DECLARATION DE CONFORMITE**

Wir
We Taconova Group AG
Nous
(Name des Anbieters) (supplier's name) (nom du fournisseur)

**erklären in alleiniger Verantwortung, dass das Produkt
declare under our sole responsibility that the product
declarons sous notre seule responsabilite que le produit**

TacoTherm Fresh Mega // Taco Therm Fresh Mega C

Typen: 272.5023.000 // 273.5523.000
Dimension: DN 20

(Bezeichnung Typ oder Modell, Los-, Chargen- oder Seriennummer)
(name, type or model, lot, batch or serial number)
(nom, type ou modele, no de lot, d'échantillon ou de serie)

**auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokument(en)
übereinstimmt
to which this declaration relates is in conformity with the following standard(s) or other normative
document(s)
auquel se réfère cette déclaration est conforme à la (aux) norme(s) ou autre(s) document(s) normatif(s)**

EN 60335-1 // EN 60730-1: 2000/A2: 2008 // EN 60730-2-9: 2010 // EN 61000-3-2: 2006 // EN 61000-3-3: 2008

(Titel und/oder Nummer sowie Ausgabedatum der Norm(en) oder der anderen normativen Dokumente)
(title and/or number and date of issue of the standard(s) or other normative document(s))
(titre et/ou no et date de publication de la (des) norme(s) ou autre(s) document(s) normatif(s))

**Gemäss den Bestimmungen der Richtlinie(n),
following the provisions of Directive(s),
conformement aux dispositions de(s) directive(s)**
(falls zutreffend) (if applicable) (le cas echeant)

Pressure Equipment directive (PED) 97/23/EC
Low Voltage directive 2006/95/EC
Directive for electromagnetic compatibility 2004/108/EC

(Ort und Datum der Ausstellung) (Name und Unterschrift oder gleichwertige Kennzeichnung des Befugten)
(Place and date of issue) (name and signature or equivalent marking of authorized person)
(Lieu et date) (nom et signature du signataire autorise)

Urdorf, den 22.01.2014

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