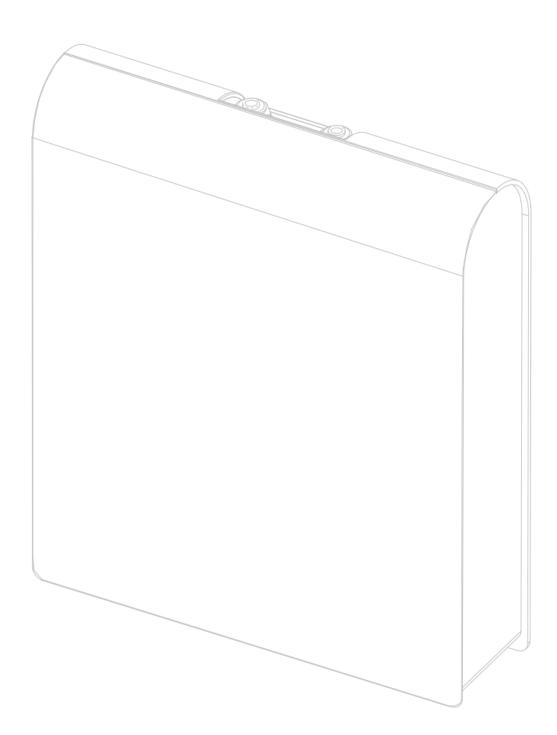


Ships Service



UNITOR[™] AQUAFILTER SYSTEM Product Code (625575)

INSTRUCTIONS AND OPERATIONS MANUAL



EN

1. Safety Precautions Before Installation

WARNING!!! The system should not be used with biologically contaminated water or water of unknown origin.

Only original replacement parts, filter cartridges and accessories made by manufacturer may be used.

Compliance with the following instructions ensures:

- problem free product operation,
- manufacturer's warranty.

Failure to comply with the following instructions will result in loss of warranty.

- 1) Read this Instruction Manual carefully before beginning system installation.
- 2) Check if all elements needed for the installation are included with the system. (Refer to Section 3 "Included in the Box").
- Please note that after installing the system, as well as after each filter cartridge and hollow fiber membrane replacements, and in the case of long inactivity of the system, system flushing procedure must be conducted before resuming system usage.
- 4) After inserting a tubing into a quick connector or a quick connector onto a stub, the connected place should be secured with a safety clip.
- 5) During disconnecting and connecting of tubing be sure not to break it (correctly installed tubing should be inserted 1.5 cm inside of quick connector).
- 6) Secure quick connector with safety clip after tubing has been inserted.
- 7) For sealing plastic components use only Teflon tape
- 8) Wash your hands thoroughly before and after filter cartridge or membrane element replacements.
- 9) During the cartridge or capillary membrane installation one must consider water flow direction. An arrow put on each of our inline cartridges indicates water flow direction.
- 10) In all cases of product returns, the system must be returned in its original packaging otherwise the return will not be accepted.
- 11) Manufacturer is not responsible for any damages resulted from the use of this product if used for other purposes than filtration of potable water.
- 12) Manufacturer does not hold any responsibility for printing errors.
- 13) Manufacturer reserves the right to introduce change or amendments to the provided technical information at any time and without the necessity of a prior announcement.

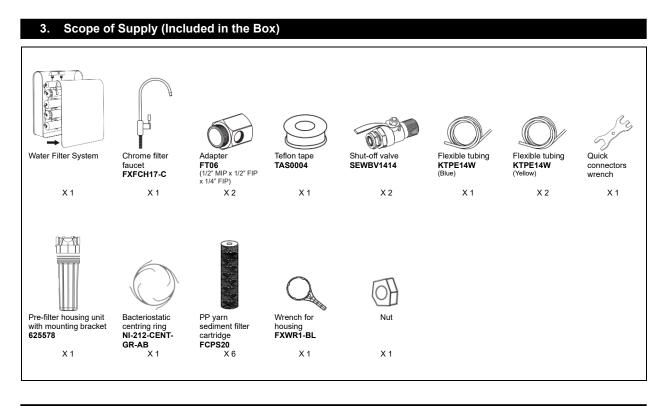
Use only genuine **Aquafilter** replacement parts, filter cartridges and membrane elements. In case of use of other manufacturers' parts, Wilhelmsen Ships Service is not responsible for any damages caused in the course of product use.

2. Technical Specifications / Water Inlet Conditions

Inlet water temperature.	between 2°C and 45°C
Water supply pressure	
Water supply adapter	
Outlet tubing	
Dimensions (height x width x depth).	

IMPORTANT NOTE! The system must be secured from high pressures and rapid pressure changes caused by local water supply systems. Pressure regulator must be installed on the inlet of the system's water supply. The system's optimal performance pressure is 4 bar.

Regulator may be purchased separately – catalogue nr. ADV-REG_K



4. What is ORP

ORP – Oxidation Reduction Potential Potential (ORP) is a parameter that defines the reaction **REDOX** (reduction reaction - oxidation) for liquids (including water), expressed in mV (millivolts). Redox potential can be measured with **ORP** meter. Readings should be interpreted in the following manner, the lower the ORP, for example: from + 150 mV to - 600 mV, the greater the reduction and oxidation properties.

The higher the rate, the **ORP**, such as: from + 150 mV to + 600 mV, the more oxidized tested liquid is and less effective in scavenging free radicals. **ORP** reading for water provides information about its ability to donate and accept electrons. Water with a low **ORP** is a very effective oxidizer, which naturally drew the free radicals, which are responsible for the formation of cancer cells.

Water with lower ORP, created an alkaline environment, which neutralizes the acidic environment of the body. Hyperacidity is considered as one of the causes of many diseases such as atherosclerosis and is also responsible for obesity.

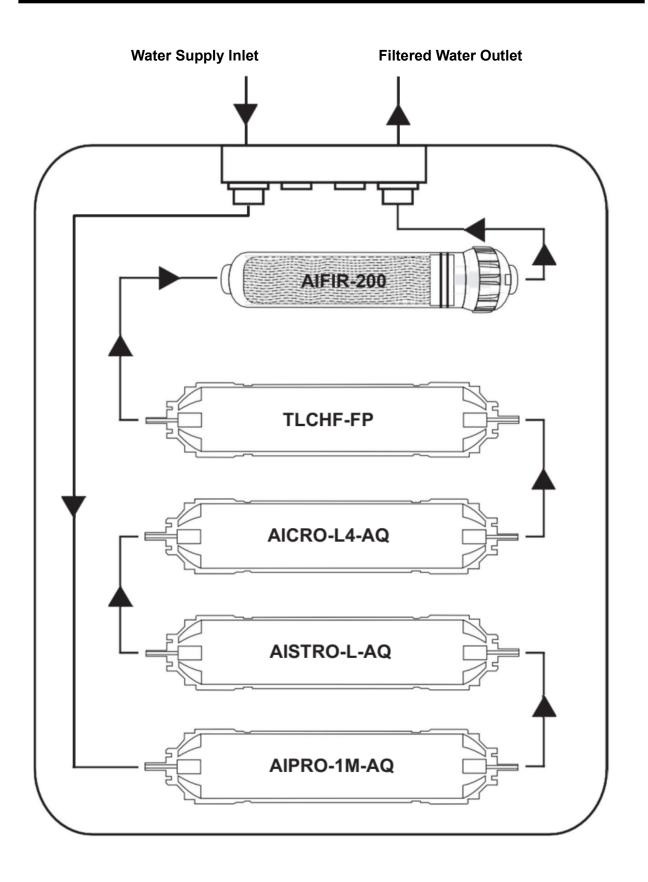
5. BACinix[™] Technology

BACinix [™] is a new innovative formula based on the antimicrobial nanosilver technology. It effectively protects filter cartridges against bacterial flora.

Cartridges are exposed to the risk of bacteria growth on filtration media when water flows slowly through the cartridge, or when water is in contact with filtration media without flow (for a longer period of time).

Maximum lifetime for the inline filter cartridge is a period of up to 6 months. After that period, user should replace the cartridge with a new one (even if the system was rarely used and the filter cartridge continues to work). In such a situation, there is a risk of bacteria growth on the surface and inside the cartridge.

However, **BACinix** TM technology prevents the development of bacterial flora and enables the extended usage of the filter cartridge beyond the 6 month period. This way the extended usage time of the filter cartridge is ensured (e.g., in the case where the system is hardly used).



7. System Installation

IMPORTANT NOTE!

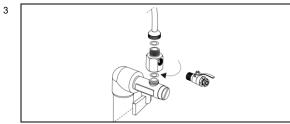
Manufacturer is not responsible for any damages that result from improper installation or use of system.

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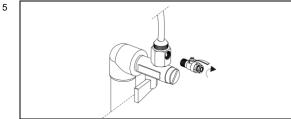
Connecting the water source to the Pre-filter 625578 housing

Shut off incoming water supply from drinking water fountain

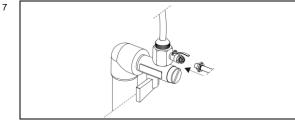


Screw adapter **FT06** onto the shut-off valve to allow easy installation of **SEWBV1414** valve and its easy opening and closing.

IMPORTANT NOTE! Remember to place rubber gaskets in between the connections.

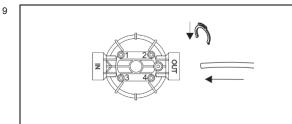


Screw SEWBV1414 valve into adapter FT06.

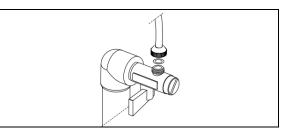


Push the yellow tubing all the way into the **SEWBV1414** valve and tighten the nut.

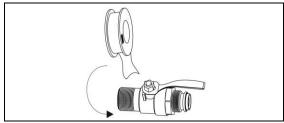
Connecting the Pre-filter 625578 to the Aquafilter System



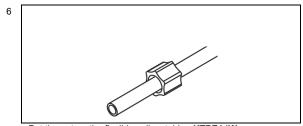
Take the second yellow tubing **KTPE14W** and insert one end into the [OUT] outlet of the Pre-filter **625578** and secure it with blue clip fastener and Teflon tape



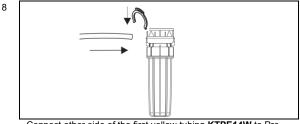
Unscrew flexible tubing from the shut-off valve (the adapter). IMPORTANT NOTE! Between the shut-off valve and flexible tubing is a rubber gasket - be sure not to lose it.



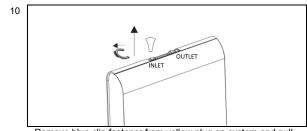
Wind a few layers of Teflon Tape **TAS0004** on shut-off valve adapter **SEWBV1414**.



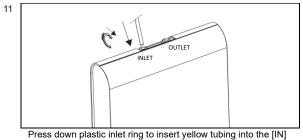
Put the nut on the flexible yellow tubing **KTPE14W**



Connect other side of the first yellow tubing **KTPE14W** to Prefilter **625578** into the [IN] inlet and secure it with the blue clip fastener and Teflon tape

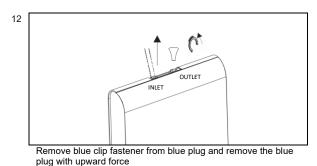


Remove blue clip fastener from yellow plug on system and pullout yellow plug from $[{\rm IN}]$ inlet in upward motion with force



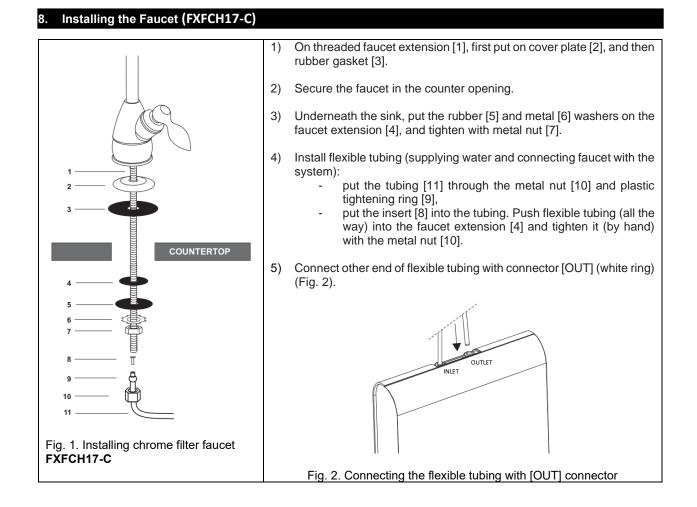
of the system's water inlet and secure yellow tubing into the [ity] with blue clip fastener

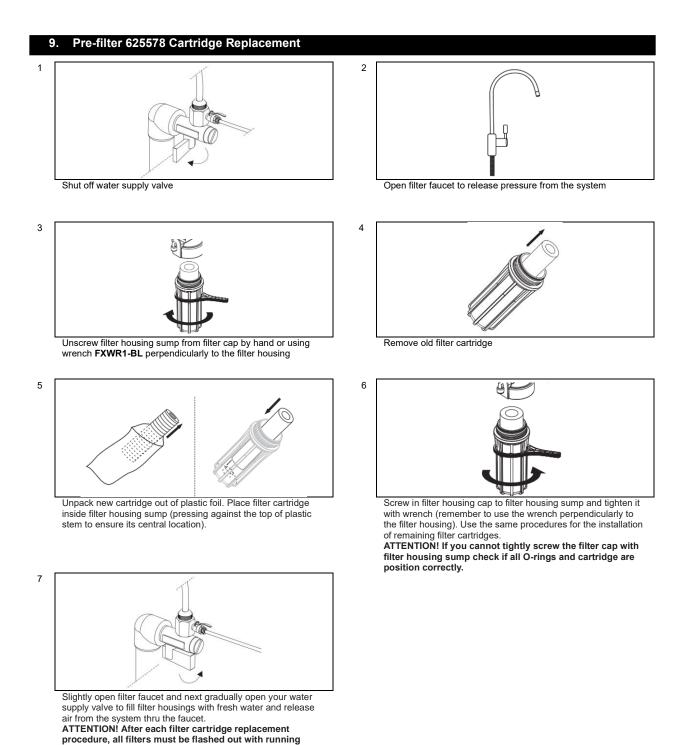
To connect system to water cooler



13 Drage down plagtic inlet ring to inpact blue tubing into the fOUTH

Press down plastic inlet ring to insert blue tubing into the [OUT] of the system's water outlet and secure blue tubing into place with blue clip fastener and connect the other end of blue tubing into the inlet of the water cooler



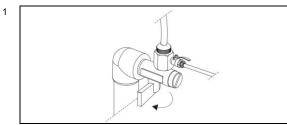


WARNING! Before the first use of the system and after cartridge replacement, perform system flushing process. Flush the system for several minutes before use. Use only microbiologically safe and adequately disinfected water. After completion of the above operations, filtered water can be consumed.

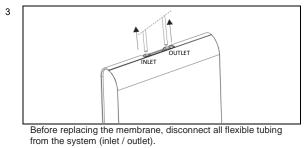
water for at least 5 minutes. Filtered water can be safely

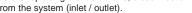
consumed after this process is completed.

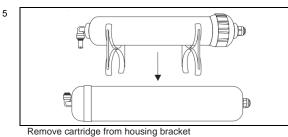
10. System Cartridge Replacement

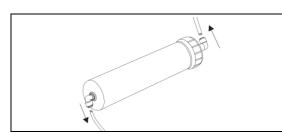


Shut off water supply valve







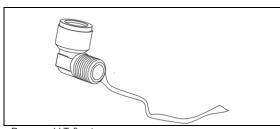


Press the elbow flange symmetrically and pull the tubing out.

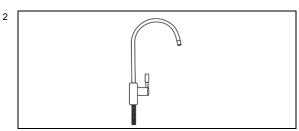
NOTE! When removing tubing be particularly careful not to bend it. The collapse of the tubing can lead to breakage and water leakage.

9

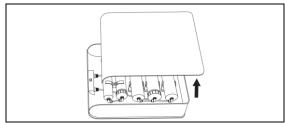
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Remove old Teflon tape

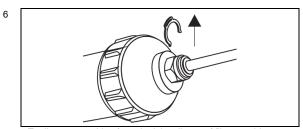


Open filter faucet to release pressure from the system

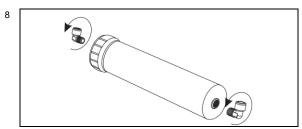


Remove front panel of the system's housing

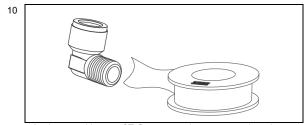
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To disconnect tubing from the inlet elbows of filter cartridge detach the safety clips from elbow inlet and outlet of the cartridge.

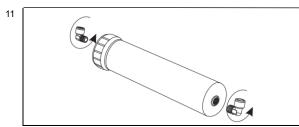


Unscrew inlet and outlet connectors from the cartridge.



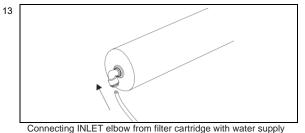
Apply several layers of Teflon tape to the connector threads.

NOTE! Use only Teflon tape, do not use tow. Apply Teflon tape in the opposite direction to the direction connectors will be installed.



Install (screw in) connectors into new filter cartridge

NOTE! During installing (screwing in) individual connectors do NOT withdraw (unscrew) them at any time. This may result in connection damage and future water leaks.



using tubing.

Do the following:

Make sure that the filter cartridge is installed correctly in the same direction as water flow. Water flow direction is marked with arrow on the product label.

2) Push the inlet tubing into the elbow connector, attached to the filter cartridges (properly inserted tubing sets in about 1.5 cm.)

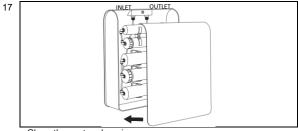
3) Secure the connection with safety clip.

NOTE! When inserting the tubing be particularly careful not to bend it. The collapse of the tubing can lead to breakage and water leak

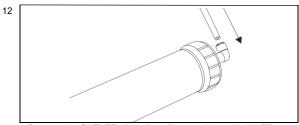


Outlet Blue tubing Inlet

Reattach yellow and blue tubing



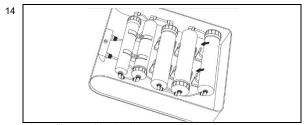
Close the system housing



Connect the OUTLET elbow from filter cartridge with INLET elbow of filter cartridge using flexible tubing.

Do the following: 1) Make sure that the input will be connected in the direction of water flow. The correct water flow direction is indicated by arrows placed on the label of each filter cartridge. 2) Push-in tubing into the output elbows attached to filter cartridge (properly inserted tubing sets in about 1.5 cm). 3) Secure the connection with safety clip.

NOTE! When inserting the tubing be particularly careful not to bend it. The collapse of the tubing can lead to breakage and water leakage

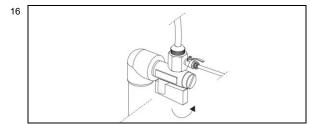


Insert filter cartridge back into mounting brackets

To replace the remaining filter cartridges follow instruction described by steps 5 to 14

NOTE!

After each filter cartridge replacement procedure, all filters must be flashed out with running water for at least 5 minutes. After completing the above-mentioned procedures, filter water can be consumed.



Slowly open water supply valve and check for leaks

11. Filter Cartridges		
Cartridge Type	Description	Service Length*
	AIPRO-1M-AQ The cartridge is made of pure polypropylene, surfactant-free depth filter ensures low pressure drops, with exceptional dirt holding capabilities. The cartridge is highly effective for filtering / absorption of sand, silt, clay, rust and other sediments.	3 – 6 months
	AISTRO-L-AQ The cartridge utilizes FDA-grade, sodium, based, strongly acidic ion-exchange resin which reduces calcium and magnesium ion content in water. Calcium and magnesium are often called "hardness minerals". Large amounts of these ions in water are responsible for the formation of scale deposits, higher detergent consumption and stains on glassware. This inline water softening cartridge exchanges calcium and magnesium with sodium ions and therefore reduces water hardness.	3 – 6 months
	AICRO-L4-AQ Granulated activated carbon cartridge with KDF® media made of the high grade activated coconut carbon. It is designed to remove up to 99% of chlorine, sediments and organic contaminants. KDF® media utilizing redox reactions, kills or inhibits bacteria growth, converts chlorine to chlorides. In addition, it also removes heavy metals such as iron, copper, lead, mercury, arsenic and many others. It also improves the taste and odour of water. Used in combination with activated carbon, KDF can significantly extend the life of filter cartridges.	3 – 6 months
	TLCHF-FP In-line ultrafiltration (UF) membrane 0.01 micron cartridge that removes viruses, bacteria, as well as suspended particles from drinking water. Particles and materials of high molecular weight are unable to pass through the 0.01-micron UF membrane so that only fresh water and dissolved minerals get through. The UF membrane also has a chemical resistance to oxidants and chlorine. The UF membrane is stable at wide range of pH levels.	3 – 6 months
	AIFIR-200 Inline alkalizing-mineralizing cartridge, increase the pH and lowers ORP of filtered water. Through an accurate negative ionized ceramic media, AIFIR2000 provides water with negatively charged atoms and complex particles. AIFIR-200 uses BACINIX [™] nanosilver technology, enhancing protection against microbiological growth in the cartridge and a continuous supply of fresh and clean drinking water.	3 – 6 months

* Depends on amounts of filtered water, its quality and level of contamination from incoming water, and filter usage.

Cartridge colour is subjected to change without notice.

Before the first use of system and after each cartridge replacement, the system should be flushed with water for **at least 10 minutes**. After these procedures, filtered and conditioned water may be consumed.

WARNING! Filter cartridges are not subject to any complaints at the time of:

- after opening protective packaging,
- after first use of filter cartridges.

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