NewLine UPS1 Filtration System

installation manual

For correct operation of this appliance it is essential to observe the manufacturer instruction.

made in EU

blue FILTERS

only the best is good enough

contents

introduction

Thank you for choosing our Bluefilters® UPS Filtration System. You now own a superb water filtration system that is highly effective at reducing selected contaminants in your water, including organic and inorganic compounds as well as unwanted tastes and odours - depending on selected type.

This system uses household water pressure. Water, under pressure, is forced through filtration steps where impurities are filtered out. Clean drinking water goes to the faucet, while the impurities remain on filter cartridges. These impurities are measured in water as Total Dissolved Solids (TDS).

The system includes innovative and patented NewLine® replaceable cartridges which are using German leading-edge technologies. The NewLine® cartridges remove sediment and chlorine from the water, improve taste and reduce odours depending on type of the filters your selected.

This UPS Filtration System will provide you with a continuous supply of delicious water for drinking, cooking and other uses. Foods will look and taste better too. Having high quality water at hand eliminates the need to buy bottled water.

how your filter system works

Please check type of filter cartridges provided with your system in order to identify its working principle. Different filter systems may consist of different filter cartridges. Your particular filter system type may slightly vary from original option presented.

NewLine® PP-GAC-KDF-NL sediment-carbon-KDF cartridge

NewLine® PP-GAC-KDF-NL sediment-carbon cartridge is a sediment combined with activated carbon and KDF type filter which removes any remaining tastes or odours from the product water. Taste-free, odour-free, clean, pure, high quality water is always at hand!

before you install your filter system

CAUTION: A refrigerator icemaker may not operate properly when connected to filter system that has been installed on a water system which operates outside of the specified pressures listed on page 13.

CHECK YOUR WATER SUPPLY: The COLD water supply to the filter system must be within certain quality limits. See the specifications on page 13. If the supply water is not within the limits defined, the filter system will not make product water as it should and substantially reduced filter life will result.

Read all steps and guides carefully before installing and using the filter. Follow all steps exactly to correctly install. Reading this manual will also help you get all the benefits from your filter.

DO NOT attempt to use this product to make safe drinking water from non-potable water sources. Do not use the system on microbiologically unsafe water, or water of unknown quality without adequate disinfection before or after the system.

Check with your local public works department for plumbing and sanitation codes. You must follow their guides as you install the system. Follow your local codes if they differ with guides in this manual.

This filter system works on water pressure of 1,2 bar (17 psi) (minimum) to 6 bar (87 psi) (maximum). You must install a pressure reducing valve in the water supply pipe to the filter system if the water pressure exceeds 6 bar (87 psi).

DO NOT install this filter system outdoors or in extreme hot or cold environments. Temperature of the feed water supply to the system must be between 2° C and 38° C. **Do not install on hot water.**

DO NOT use with water that is microbiologically unsafe or with water of unknown quality without adequate desinfection before or after the system.

System certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

before you install your filter system

This filter system is designed for installation under the sink, usually in the kitchen or bathroom. The filter system can be mounted on a wall surface or can lie on the cabinet floor. System faucet is installed on the sink, into the counter next to the sink or in the special bracket on the wall.
You can also install the system in any remote location from the faucet, observing the safety guides on page 6. You will need a nearby water supply point.

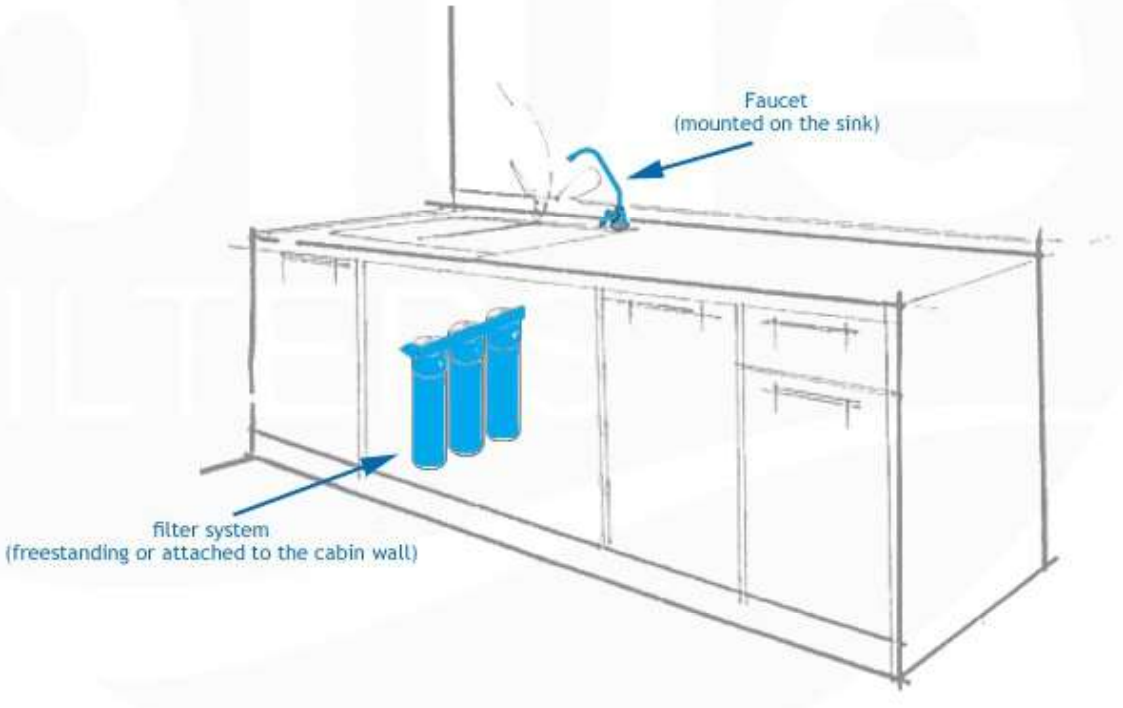
Water supply: To provide supply water to the filter system, use the included feed supply fittings as described on page 7.

NOTE: Tubing lengths supplied with the system allow for easy moving of the filter assembly for servicing. If tubing lengths are shortened for a neater appearance, it may be necessary to keep the filter assembly in its installed location for service. Please keep connecting tubes as long as possible for convenient usage.

CHECK LIST:
1. Water filter unit (Part 1)
2. Tubing (Part 2)
3. Faucet with assembly kit (Part 3)
4. Brass water feeder (Part 4)
5. Isolating ball valve (Part 5)
6. Pressure reducing valve (Part 6)
7. Installation manual

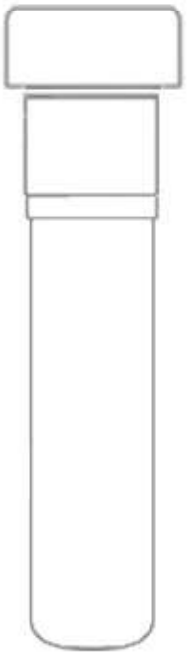
TOOLS AND MATERIALS NEEDED:
- Variable speed drill
- Ø 4, 6, 10 or 13 drill bit
- 17, 24, 32 open-end wrench, or adjustable wrench, pliers
- Screwdriver
- Utility knife, or scissors
- Teflon tape

IMPORTANT NOTE: Before you proceed with installation please check general connection scheme for your model of water filter, on the last pages of this manual.

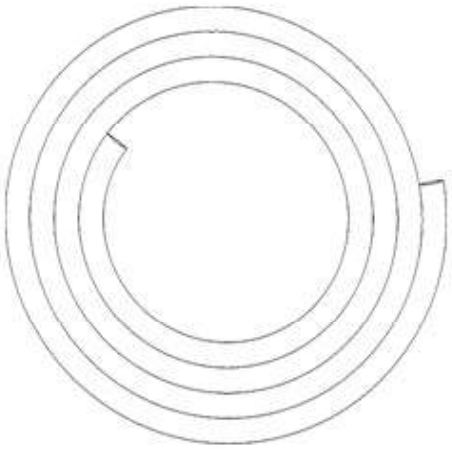


Pic.1 - visual UPS3 filter System draft

before you install your filter system



Part 1



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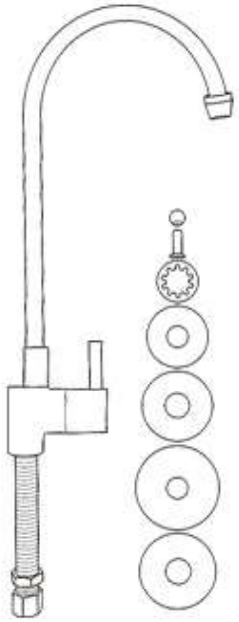

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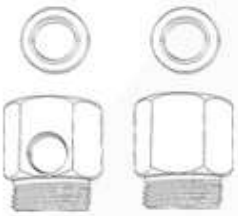

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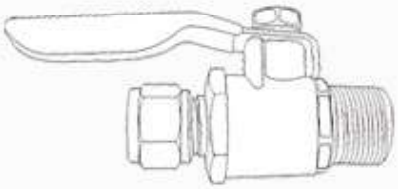
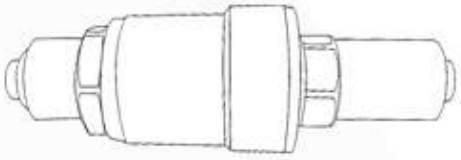


Part 5



Part 6

Filter System uses Quick Connection type style fittings. These fittings only require you to simply push the tubing firmly into each fitting.

Connecting standard Quick Connection type push-in fittings

Step 1: Remove locking clip from the fitting as presented on Fig.1

Step 2: Push the pipe into the fitting, until you fell resistance (Fig.2). The collet (gripper) has stainless steel teeth which hold the pipe firmly in position whilst the 'O' Ring provides a permanent leak-proof seal. Pull on the pipe to check whether it is secured. It is a good practice to test the system prior to leaving the site and/or before use.

Step 3: Place the locking clip back (Fig.3) to lock the pipe and prevent it from accidental slip-out.

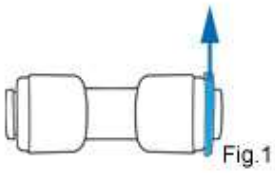


Fig.1

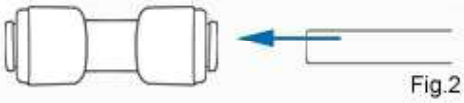


Fig.2

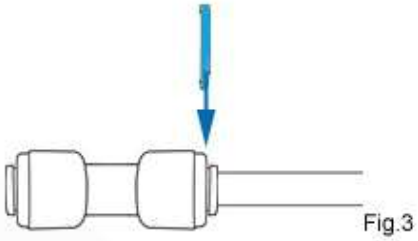


Fig.3

Disconnecting standard Quick Connection type push-in fittings

Make sure that the system is depressurized before removing fittings.

Step 1: If present, remove locking clip from the fitting as presented on Fig.4

Step 2: Push in the collet against the face of the fitting (Fig.5). With the collet held in this position the pipe can be removed (Fig.6). The fitting can then be re-used.

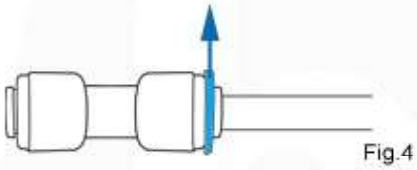


Fig.4

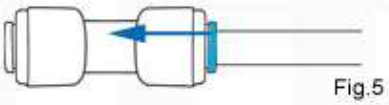


Fig.5

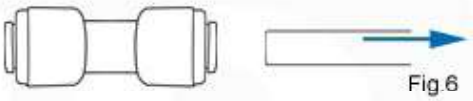


Fig.6

Step 1: Tapping into cold water supply

There are a number of ways to connect the system to the water mains. Provided filter depending on the local connection standards, is equipped with 3/8", 1/2" or 3/4" Brass Water Feeder. Choose between two methods of installation of Brass Water Feeder to your water supply piping given below.

CAUTION: The water supply to your filter unit MUST be from a **COLD** water line. Hot water will severely damage your filter system.

METHOD 1

Brass Water Feeder 3/4" - Faucet connection:

1. Locate hot and cold water shut off valve under the sink and turn it off. Open hot and cold water faucet to release the pressure, and make sure there is no water running.
2. Untighten compression nut and remove the faucet. Then put supplied gasket and install connector elements remembering that the one with the hole must go to cold water supply pipe. Tighten firmly.
3. Take the ball valve and use teflon tape for sealing while mounting it on the cold water connector element.
4. Connect the faucet back to the connector elements. Turn the ball valve handle to close position, open hot and cold water shut off valve and check for any leakages.
5. Use teflon tape for sealing the threaded ends.
6. Connect ball valve with your filter system with 1/4" elastic tube, which is part of the system installation kit. Please refer to connection schemes at the end of this manual for appropriate connection.

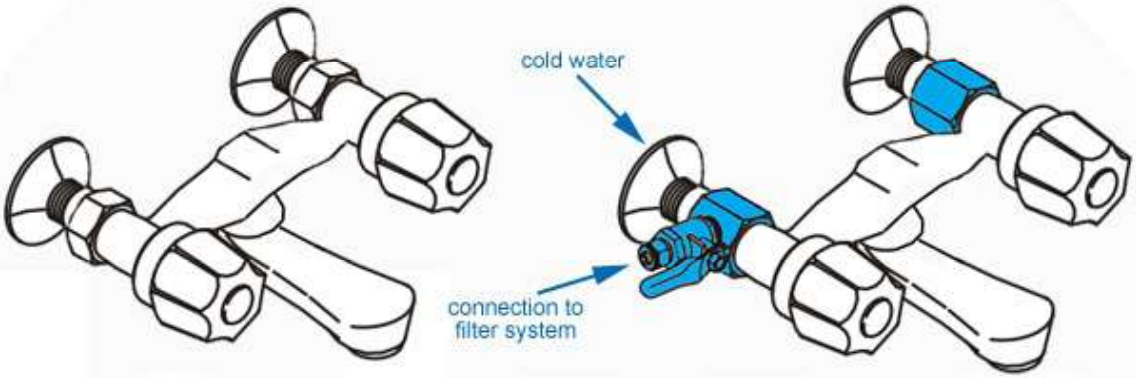


Fig.7 - brass water feeder 3/4" faucet connection method

METHOD 2

Brass Water Feeder 3/8" or 1/2" - Water supply connection:

1. Locate cold water shut off valve under the sink (if the feeder is installed after this valve) or main shut off valve (if the feeder is installed before under sink shut off valve, as shown on scheme) and turn it off. Open cold water faucet to release the pressure, and make sure there is no water running.
2. Untighten compression nut or under sink shut off valve. Then put supplied gasket and install connector element. Tighten firmly.
3. Take the ball valve and use teflon tape for sealing while mounting it on the connector element.
4. Finally connect the supplied line or under sink shut off valve back to the Connector Element. Turn the ball valve handle to close position, open main or cold water shut off valve and check for any leakages.
5. Use teflon tape for sealing the threaded ends.
6. Connect ball valve with your filter system with 1/4" elastic tube, which is a part of the system installation kit. Please refer to connection schemes at the end of this manual for appropriate connection.

Fig.8 - brass water feeder 3/8" or 1/2" connection method

Step 2: Installing the dispensing faucet

The faucet should be positioned with aesthetics, function and convenience in mind. A sample flat surface is required for the faucet base so that it can be installed firmly. Also, check the under sink area of the desired location to see if there is enough space to complete the faucet installation.

If the space is not available on the upper sink area, the faucet could be positioned on the counter top at the edge of the sink. Be sure to watch for obstructions below, i.e., drawers, cabinet walls, support braces, etc. If the counter top is made of ceramic tile, the method for drilling the hole should be the same as for porcelain sink.

NOTE: Sink drilling process, although not complicated, requires a certain amount of caution and forethought. Porcelain sink can crack if care is not exercised.

DRILLING

Porcelain enamel sink / stainless steel sink / aluminum sink

A Ø 13 mm hole is required for the faucet. It is recommended that you obtain a special ceramic drill bit for a porcelain and/or tile sink/counter. When drilling the faucet hole for the sink/counter, you should wear eye protection and exercise caution by following the below steps carefully.

1. Place a piece of masking tape or duct tape on the determined location where the hole is to be drilled.
2. Use a variable speed drill at slow speed with Ø 6 mm drill bit, and drill a centering hole in the center of the desired faucet location. Use lubricating oil to keep the drill bit cool while drilling.
3. Enlarge the hole using a Ø 10 mm drill bit.
4. Enlarge the hole using Ø 13 mm drill bit. Keep bit well oiled and cool, then drill slowly.
5. Clean the surrounding area and then remove the masking or duct tape. (**NOTE:** the metal chips on porcelain will stain very fast).
6. Pass the chrome cover plate and rubber sealing as shown in Fig.9 through the threaded mounting tube at the base of the faucet
7. From under the sink, install the white plastic locating washer, small metal sealing, and screw on the nut until it is tight against the underside of the sink/counter.
8. With all fittings in place, thread the Tube Fastening Nut and Collet, insert the tubing into the faucet inlet and tighten the nut.
9. Connect the other free end of the 1/4" tubing to the Stage 1 filter. Please refer to connection schemes at the end of this manual for appropriate connection.

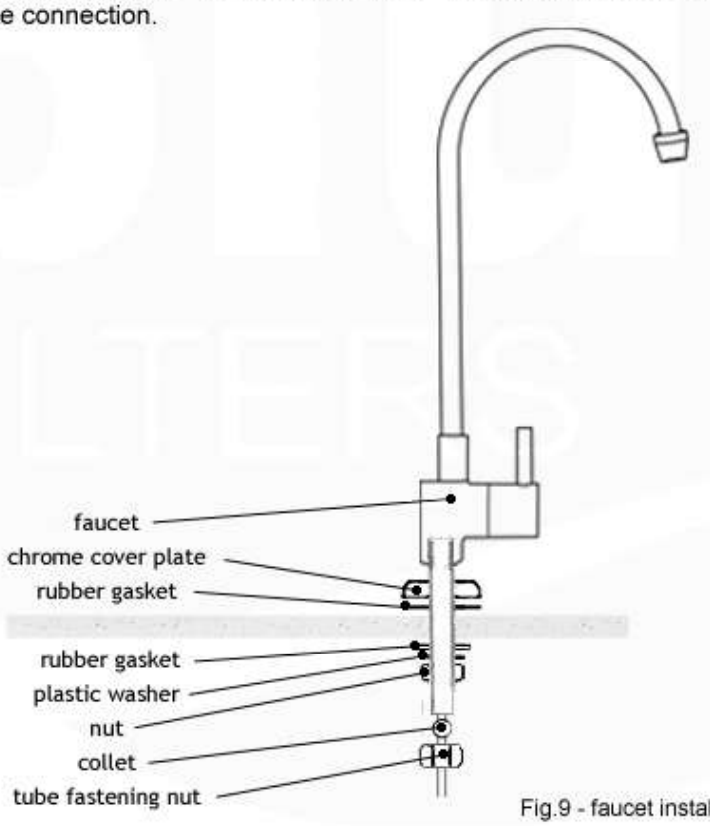


Fig.9 - faucet installation elements

Step 3: Pressure testing and purging

After installation of all filter cartridges and connection of all tubes you can test the filter.

1.Check all tubing to be sure there are no obstructions.
3.Turn filter faucet lever to continuous flow (ON position, handle pointed upwords).
4.Turn the cold water supply main valve on slowly. When the system is pressurized, check for leaks.
5.You will hear the air purging from the system and within few seconds, the water should start dripping from the faucet. Once the water starts to drip, allow few more minutes for the water to flow through the system and purge all the air trapped inside the system.
6.Check for leaks
7.Turn the faucet handle to the OFF position.

NOTE: Check for leaks daily for the first week after installation

Filter cartridge change (lifetime: 3-6 months)

To change the NewLine® filters, follow these instructions:

CAUTION: Any replacement filters not recommended by the producer can cause severe damage to the system and will void all warranties.

1. Shut off the feed water supply to the system by turning the ball valve or cold water faucet valve on the water supply clockwise until it stops.
2. Press down on the faucet handle to release pressure and put faucet into OPEN position.
3. Allow few seconds for pressure in the system to drop.
5. Turn the cartridge counterclockwise to loosen it and remove the cartridge from the head (cap). Be careful as the cartridges are filled with water.
6. Unpack new cartridges from protection foil and line up the new cartridge with the center of the head.
7. Turn the cartridge clockwise to tighten it.

CAUTION: Rinse the new cartridge for about 5 minute before usage.

CAUTION: A higher frequency of filter changes may be necessary, dependent upon your feed water quality. You should inspect the filters periodically and maintain service record to establish maintenance schedule that is unique to your water conditions.

Fig.10 - filtration cartridge replacement scheme

troubleshooting

Filter lifetimes:
- NewLine® filters - 3-6 months

Please check selected cases for general solution ideas:

problem: Taste and/or smell of chlorine in clean water

cause: Concentration of chlorine in feed water is above the limit. Filter does not work – does not remove chlorine from feed water.

solution: If the concentration of chlorine in feed water is above 0.3 ppm an additional prefiltration should be used. Exchange the carbon filter and/or all filters.

problem: Changed smell and taste of clean water

cause: Used filters.

solution: Exchange the carbon filter and/or all filters.

problem: Low system capacity

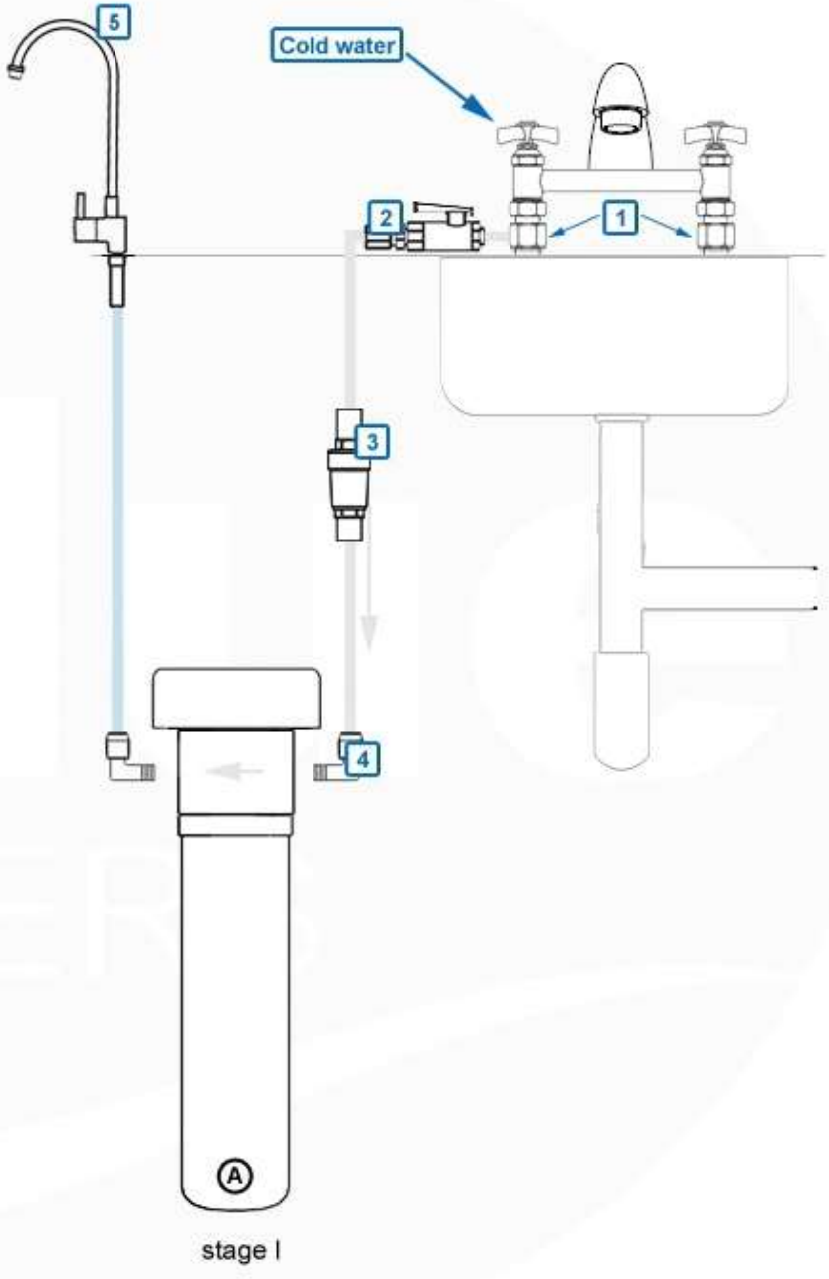
cause: Filters clogged with sediments. Feed water does not comply with the standard requirements.

solution: Exchange sediment filters and/or all filters. If the capacity does not improve increase water pressure.

system specification

Feed water pressure limits	1.2 - 6.0 bar
Feed water temperature limits	2 - 38°C
Maximum chlorine content	0.3 ppm
Maximum water flow	3,7l/min (depends on feed water pressure)

SDI	<5
Fe	<0,2 mg/l
Mn	<0,05 mg/l



stage I

Parts List:

A - NewLine® Sediment Cartridge
NewLine® Softening Cartridge (optional)
NewLine® Nitrate Removing Cartridge (optional)
NewLine® Sediment-Active Nanoclusters Cartridge (optional)
NewLine® Carbon-Sediment Cartridge (optional)
NewLine® Granular Carbon Cartridge
NewLine® Active Nanoclusters-Carbon Cartridge (optional)
NewLine® Sediment-Active Nanoclusters-Carbon Cartridge (optional)
NewLine® Ultrafiltration Cartridge (optional)
NewLine® Remineralising-Carbon Cartridge (optional)

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1 - Brass Water Feeder (3/4")
2 - Ball valve
3 - Pressure reducing valve
4 - Elbow 1/4"
5 - Single Faucet