

## Demineralizer filter housing

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**NA573**

### Function

The demineralizer filter housing unit with replaceable resin cartridge is a replacement component for the Caleffi code NA573022 pre-assembled replenish water treatment filling unit, which is installed on the water inlet piping in sealed hydronic heating and cooling systems. Refer to instruction sheet NA11310 and technical brochure 01268 for installation and maintenance information on the NA573022 assembly, which includes the AutoFill™ fill valve, isolation ball valves and code 573 backflow preventer.

### Product Range **NA573**



NA573100 ½" FNPT inlet x ½" FNPT outlet  
NA573102 10" color changing demineralizing filter

### Technical

#### Specifications

#### Materials

- body: plastic
- cover: plastic
- seals: rubber

#### Performance

- Suitable fluids: tap water
- Max. inlet pressure: 125 psi (8.5 bar)
- Max. working temperature: 100°F (38°C)
- Max. flow rate: 1 gpm (0.6 l/s)
- Demineralization capacity for 180 ppm untreated water: ~ 30 gallons
- TDS of water after treatment: < 30 ppm
- Resin exchange:
  - Anion: 60%
  - Cation: 40%

#### Connections

½" FNPT inlet x ½" FNPT outlet





## **SAFETY INSTRUCTION / CONSIGNE DE SÉCURITÉ**

This safety alert symbol will be used in this manual to draw attention to safety related **instructions**. **When used, the safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.**

Ce symbole d'avertissement servira dans ce manuel à attirer l'attention sur la sécurité concernant instructions. Lorsqu'il est utilisé, ce symbole signifie **ATTENTION ! DEVEZ-VOUS ÊTRE ALERTES ! VOTRE SÉCURITÉ EST EN JEU ! NE PAS SUIVRE CES INSTRUCTIONS PEUT PROVOQUER UN RISQUE DE SÉCURITÉ.**



**CAUTION:** All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of systems in accordance with all applicable codes and ordinances.

**ATTENTION:** Tous les travaux doivent être effectués par du personnel qualifié formé à la bonne application, installation et maintenance des systèmes conformément aux codes et règlements locaux.



**CAUTION:** If the filling unit is not installed, commissioned and maintained properly, according to the instructions contained in this manual, it may not operate correctly and may endanger the user.

**ATTENTION:** Si unité de remplissage n'est pas installée, mis en service et entretenu correctement, selon les instructions contenues dans ce manuel, il peut ne pas fonctionner correctement et peut mettre en danger l'utilisateur.



**CAUTION:** Make sure that all the connecting pipework is water tight.

**ATTENTION:** S'assurer que tous les raccordements sont étanches.



**CAUTION:** When making the water connections, make sure that the filling unit connecting pipework is not mechanically over-stressed. Over time this could cause breakages, with consequent water losses which, in turn, could cause harm to property and/or people.

**ATTENTION:** Lorsque vous effectuez les raccordements d'eau, assurez-vous que la tuyauterie reliant unité de remplissage n'est pas mécaniquement overstressed. Au fil du temps, ceci pourrait causer des ruptures, avec pour conséquence des pertes en eau qui, à leur tour, peuvent causer des dommages à la propriété et/ou les gens.



**CAUTION:** Water temperatures higher than 100°F can be dangerous. During the installation, commissioning and maintenance of the filling unit, take the necessary precautions to ensure that such temperatures do not endanger people.

**ATTENTION:** Les températures de l'eau supérieure à 100°F peut être dangereux. Au cours de l'installation, mise en service et l'entretien de la unité de remplissage, prendre les précautions nécessaires afin de s'assurer que de telles températures ne compromettent pas les gens.

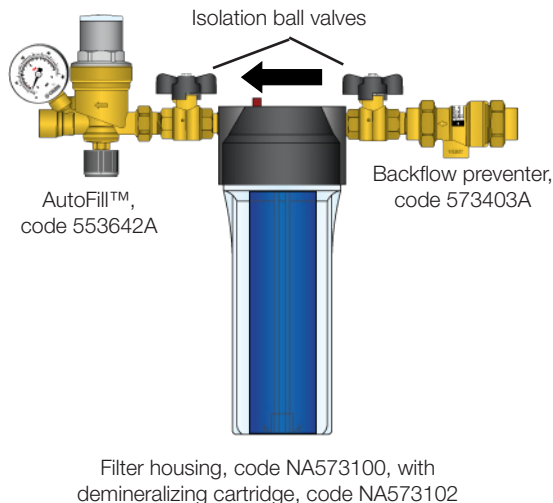


**CAUTION:** In the case of highly aggressive water, arrangements must be made to treat the water before it enters the filling unit, in accordance with current legislation. Otherwise the valve may be damaged and will not operate correctly.

**ATTENTION:** Dans le cas de l'eau fortement agressifs, des dispositions doivent être prises pour traiter l'eau avant qu'elle ne pénètre dans le unité de remplissage, conformément à la législation actuelle. Sinon la soupape pourrait être endommagée et ne fonctionnent pas correctement.

**LEAVE THIS MANUAL FOR THE USER  
LAISSEZ CE MANUEL AVEC L'UTILISATEUR**

## Construction details



This assembly uses a special 10-inch demineralizing filter cartridge, code NA573102, containing the color changing resin beads necessary to demineralize water passing through it at relatively low flow rates. The cartridge assembly can be isolated by closing the two ball valves. The clear housing can then be unscrewed to remove and replace the cartridge. The Caleffi cartridge will appear blue color when new. Its internal color will change to amber as the resin beads approach a spent condition. Each cartridge can demineralize approximately 30 gallons of water at 180 ppm of untreated water. This should provide several years of normal make-up water supply, assuming only minor water losses from the system occur.

## Installation

The Caleffi NA573 assembly uses a special 10-inch cartridge insert, code NA573102, containing the color changing resin beads necessary to demineralize water passing through it at relatively low flow rates. The cartridge assembly can be isolated for replacement by closing the two ball valves. The clear housing can then be unscrewed to remove and replace the cartridge. The Caleffi cartridge will appear blue color when new. Its internal color will change to amber as the resin beads approach a spent condition. Each cartridge can demineralize approximately 30 gallons of water. This should provide several years of normal make-up water supply, assuming only minor water losses from the system occur.

### Replacement of demineralization cartridge

The 10-inch cartridge insert, code NA573102, containing the color changing resin beads that demineralizes water passing through it, will appear blue color when new. The internal color will change to amber as the resin beads approach a spent condition. Each cartridge can demineralize approximately 30 gallons of water. This should provide several years of normal make-up water supply, assuming only minor water losses from the system occur.

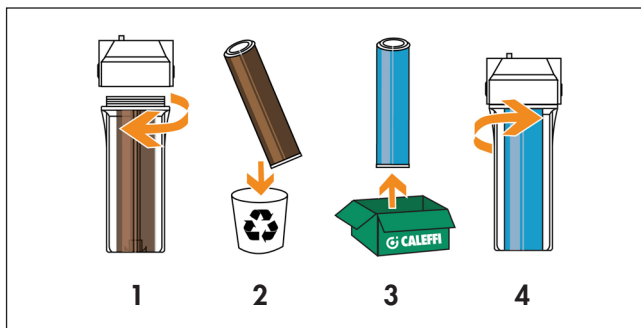


### Replacement of filter housing assembly

To prevent costly repairs or possible water damage, it is strongly recommended to replace every 5 years the clear plastic filter housing assembly, code NA573100. Be sure to date the newly installed, or replaced, housing for future reference and indicate the next replacement date.

## Cartridge change

1. Close the isolation ball valves. 2. Turn the cartridge with white plastic wrench included with unit. 3. Remove the used cartridge and discard them. 4. Insert the new cartridge. 5. Turn the cartridge and tighten in place with the white plastic wrench. 6. Re-open the isolation ball valves to return to normal operation.



White plastic wrench, included in NA573022 pre-assembled treatment unit package, is required to remove filter housing to replace spent color changing demineralization filter. Please do not dispose and keep in handy location for future use.



Note: The replacement water treatment filling unit is not designed for initial filling. Caleffi's HYDROFILL™ water treatment filling unit, code NA5709 series, is recommended for that purpose.

The capacity depends on various factors including the temperature of the water, the chemical composition of the water and pressure. For an exact determination is a water analysis of the raw water. The values specified here are always related to the optimal case and are not binding.



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