

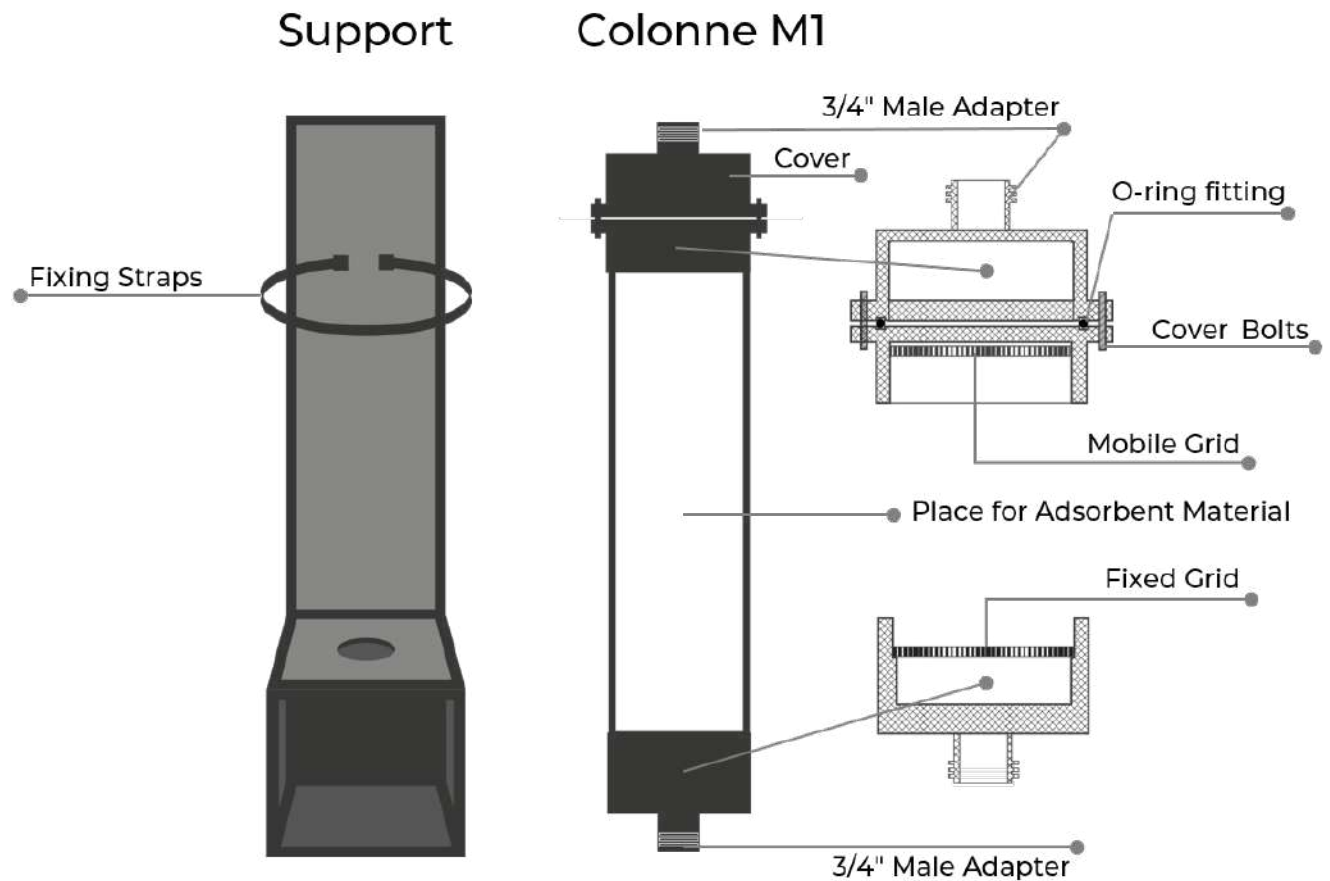


# Filtration Column M1

for METALICAPT® fibers

## User Guide

## DIAGRAM



## PRODUCT SPECIFICATION AND PARAMETERS

<b>Bed volume</b>	8,8 L
<b>METALICAPT® fiber quantity</b>	0,85 – 1.2 kg
<b>Materials</b>	PVC/PMMA
<b>Connection diameter</b>	27/20 mm ( 3/4", DN 20)
<b>Flow rate</b>	Up to 800 L/h
<b>Chemical resistance</b>	Water, acids (HCl conc., H <sub>2</sub> SO <sub>4</sub> 10 %), bases (NaOH 10 %)
<b>Pressure</b>	Up to 2 – 3 bars max
<b>O-ring size</b>	160 x 5 mm FPM/VITON 80
<b>Size</b>	20 cm x 20 cm x 150 cm
<b>Net Weight</b>	2,5 kg
<b>Recommended feed water temperature</b>	10 – 60 degrees C

\*Note: Flow rate and filter capacity depend on input effluent quality and adsorbent material.

## OPERATING INSTRUCTIONS

Thank you for choosing our METALICAPT® filtering systems.

### Important Note

Please read this user manual carefully before use and keep it for further information.



#### Warning

Do not allow grit, gravel or other rough material to enter the METALICAPT® M1 Column to avoid blocking or clogging the filter membrane.

Avoid keeping the METALICAPT® M1 Column in freezing temperatures and do not use boiling water.

After each adsorbent material replacement, the METALICAPT® M1 Column should be rinsed of debris.

## INSTALLATION

Recommended tools list:

- Teflon tape
- Utility knife or scissors
- Screwdriver for diameter of 7
- Fitting Adapters to male  $\frac{3}{4}$

### ■ BEFORE INSTALLATION

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Inspect the system. Please take the filtration system and all the components out of the box. Inspect the Column and all the connection adapters carefully. Make sure nothing was damaged during shipping. If any part is cracked or broken, please do not proceed with the installation and contact AJELIS or your distributor for an exchange or diagnosis.

Check the reference of METALICAPT® fiber or other adsorbent media. Column M1 is usually supplied preloaded with adapted sorbent.

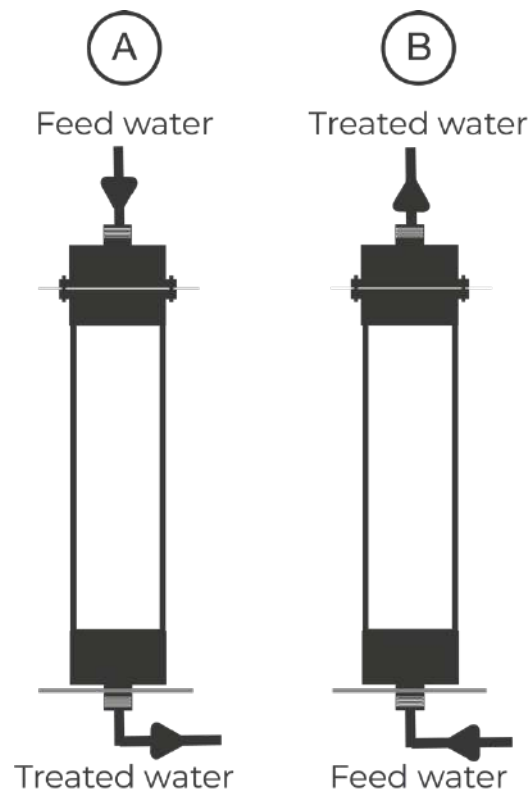
## ■ MOUNTING

No need to mount the filtering system on the wall, it can stand on any flat surface. Put the Column on its Support introducing the bottom adapter into the hole. Fasten the selfgripping strap around the Column.

## ■ CONNECTING THE SYSTEM

1. Connect the feed and treated water flows using adapters to outputs of the column and Teflon tape. It is imperative to wrap Teflon tape in the same direction of the thread which is clockwise on most fittings. If the tape is wrapped in a counter clockwise direction (or against the direction of the thread), it will unravel when mating into the female connection. It is recommended that you wrap it around the thread three or four times. It will be thick enough to prevent leaks but not too thick that you cannot get the female fitting on.

Two types of flow configurations are possible:



2. Slowly turn ON the water supply.
3. Check for leaks. Make sure no leaking at joints, fittings, valves and tubing connections.

## Maintenance

In order to extend the service lifetime of this product, please wash the METALICAPT® M1 Column with clean water after use. Make sure any debris or other large particles are completely washed out from the bottom of the METALICAPT® M1 Column.

## ■ FILTER REPLACEMENT STEPS :

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1. Turn OFF effluent supply to system.
2. Disconnect the cover fitting.
3. Unscrew the cover cap and take it off.
4. Take out the mobile plastic grid and take out the METALICAPT® fiber or other adsorbent media (it is recommended to wear laboratory gloves for this operation to prevent a possible contamination from your effluent).
5. Put new filtering media into the Column. Fiber media can be placed directly to the fixed bottom grid. For granular adsorbent media: put percolating foam disk on the bottom grid as support, then fill the Column with granular media and put another percolating disk on the top.
6. Put the mobile plastic grid back on.
7. Visually inspect the O-ring and mating surfaces for dirt, nicks, cuts, scratches, lint, hair that could cause a leakage. Clean the surface and the ring if necessary.
8. Lightly coat the O-ring with a lubricant that is compatible with the O-ring being installed, as well as compatible with chemicals used.
9. Place the O-ring in the groove. Put the cover cap on and tight by hand the screws in the following order: 1, 4, 2, 5, 3, 6. O-ring fittings do not require significant tightening. Keep in mind that because "hand-tightening" can vary from person to person, it is essential to do a thorough leak-check once the initial system charge is added to the system and once again after fully charged. A minor adjustment to fitting tightness may be necessary.
10. Connect the cover fitting.
11. Slowly turn ON the effluent supply.
12. Check for leaks.

## ■ LONG-TERM STORAGE :

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For long-term storage, clean and rinse the METALICAPT® M1 Column with fresh water and allow to completely dry before putting the pieces back together. Store in a cool, dry location.

## ■ TRANSPORTATION :

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When transporting your METALICAPT® M1 Column, ensure that the Column M1 is securely packed in your baggage to protect it from freezing. Make sure that the effluents have been released. The connectors are recommended to be protected with caps 3/4" female.

## **Disclaimer**

Please follow the instructions, precautions and warnings in this manual. If you fail to comply with the instructions in this manual, we can only provide replacement service at your own expense.