

VEVOR[®]

TOUGH TOOLS, HALF PRICE

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Water Descaler

MODEL:ED2021

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually Saving Half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

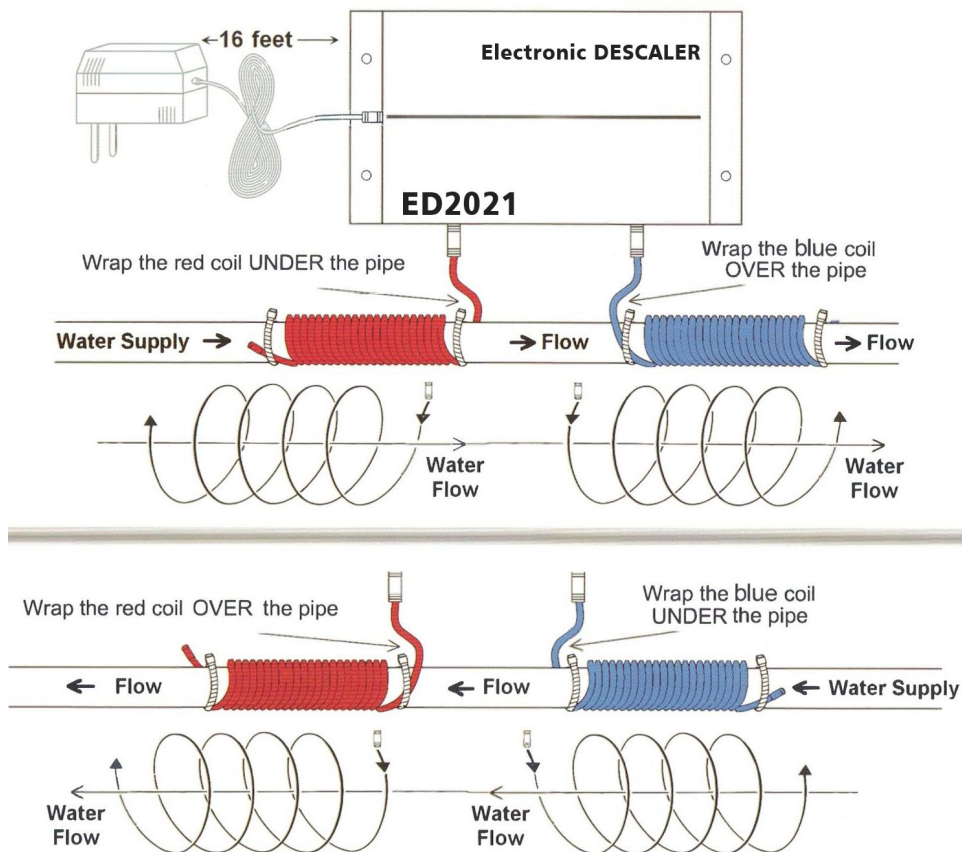


Warning-To reduce the risk of injury, user must read instructions manual carefully.

The revolutionary environmental technology that conditions hard water and reduces scale build-up. It is chemical free thus environmental friendly. It is easy to install and effectively reduces scale build-up in plumbing, nozzles, valves, and home appliances. To gain the most benefit and make this chemical free solution complete, it is ideal to use it with Iron-reducing Whole House Filter, Shower Filter and Under. sink Water Filter. The total cost is about the same or even less than a Salt-based Water Softener.

Please read this manual carefully and completely before proceeding with installation.

Please retain the manual for future reference.



Wrap the full length of each coil around the pipe in their respective directions. Make sure the coils are wrapped snug against each other , leaving no space between the coils on each wrap.

BEFORE INSTALLATION

Please read the following information carefully and completely before installation. The product dimensions measure 12 x 9.5 x 2.5 inches, with each coil 55 inches long.

TESTING FOR HARDNESS AND IRON LEVELS

The hardness and iron levels can significantly impact the operation of ED2021. It's extremely important to understand the hardness and mineral level of the water before installing a water conditioning system. Minerals and hardness of the water impacts the time required to change the characteristics of the lime scale. The best way to find out the mineral level and hardness in your water is to connect with your local health authority or to take help from a water testing service.

IRON CONCENTRATION

High Iron level (insoluble and soluble) in water can deteriorate and can degrade the operation of ED2021 electrical field, decreasing its efficiency on reducing scale. Under such circumstances it's recommended to use an iron removal system to remove out the iron prior to using ED2021. If iron levels are above 0.3 ppm (parts per million) an iron removal system should always be used.

WATER HARDNESS

Definition of hardness:

(Taken from the 1992 edition of Standard Methods for the Examination of Water and Wastewater)

"Originally, water hardness was understood to be a measure of the capacity of water to precipitate soap. Soap is precipitated chiefly by the

calcium and magnesium ions present. Other polyvalent cations also may precipitate soap, but they often are in complex forms, frequently with organic constituents, and their role in water hardness may be minimal and difficult to define. In conformity with current practice, total hardness is defined as the sum of the calcium and magnesium concentrations, both expressed as calcium carbonate, in milligrams per liter."

Currently the water hardness is determined by the concentration of magnesium and calcium the water. A traditional water softener eliminates the magnesium and calcium from the water using a process known as "Ion Exchange". Water treated with the traditional softeners will demonstrate a change in hardness as per the present practice of computing water hardness. ED2021 does not remove any calcium or magnesium ions from the water, therefore testing the water before and after the installation of the ED2021 will not show any change in the water hardness as per the traditional methods. The effects of the ED2021 can be determined by observing the changes the treated water on scale forming areas such as: shower head scaling, humidifier media pad scaling, scaling on cooking utensils and the quantity of soap needed for the laundry.

The table below defines the water hardness as per the Water Quality Association. You can use this table as reference to determine the hardness of your water, once the water test results are received.

ED2021 works effectively on water with a hardness level of 425 ppm or 25 gpg. For harness level above 425 ppm, it is recommended to use the ED2021 in conjunction with a traditional water softener to remove hardness and condition the water. This will minimize the salt required to eliminate the hardness and will sustain the cost saving benefits of the ED2021 water-conditioning system.

DESCRIPTION OF	PARTS PER MILLION (PPM) OF	GRAINS PER GALLON (GPG) OF CALCIUM
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WATER HARDNESS	CALCIUM CARBONATE EQUIVALENT	CARBONATE EQUIVALENT
Soft	Less than 17.1	Less than 1.0
Slightly Hard	17.1 to 60	1.0 to 3.5
Moderately Hard	60 to 120	3.5to 7.0
Hard	120to180	7.0 to 10.5
Very Hard	180 and above	10.5 and above

OBSERVATION TIMETABLE

Following timetable can be observed for performance evaluation of ED2021 for the first 90 days.

Day 1:

On the day 1 you can observe that the soap lathers more easily and more effectively as the action instantly begins to slacken prevailing scale in the cold and hot water systems.

After 1 week:

Breaking down scale on water pipes, water heater elements (immersion rod heaters) and tanks. You may observe some small particles in the water coming from the hot water tap, although most of the broken down particles will be microscopic and can't be observed by naked eye.

After 2 weeks:

Loosening of scale on shower heads, faucets, kettles can be observed. Wiping plastic, ceramic, metal and glass surfaces becomes much more easier. Soap and detergent required for bathing, cleaning and laundering is significantly reduced.

After 1 month:

With the loosening of scale from water heating system, it should take lesser time for heating the water. The amount of scale on pipes, faucets

and shower heads should be significantly reduced. AFTER 3 months: Disappearance of scale from shower head. Scaly crust in toilets is significantly reduced. No new crust should form. Depending upon the age of scaling and hardness of water it may take up to 12 weeks for these effects to appear.

Please note: The ED2021 is NOT a water softener and does not REMOVE calcium or magnesium from the water.

INSTALLATION

WHERE TO INSTALL THE ED2021

The ED2021 should be applied on the main water supply pipe through which water enters the building. This will optimize the operation of ED2021 and will ensure that the system conditions all of the water supplied to the building. If a water meter or grounding cable is used, it's recommended to install the ED2021 after the water meter or grounding cable attached to the plumbing system. The ED2021 can be used effectively on any type of water pipe; galvanized, copper, or plastic. ED2021 should be installed at least ten feet from any TV, radio or cordless telephone or any other electronic system to minimize possible interference.

HOW TO INSTALL THE ED2021

STEP1: WRAP THE COILS

Wrap the left antenna from center to left, starting under the water pipe. Wrap the right antenna from center to right, starting over the water pipe. This way ensures two coils are formed into continuous counter-clockwise circles against water flow. Each coil is long enough to wrap at least 12 rounds on 3/4 inch pipe. Minimum 7 rounds are required, the more the better. Secure the wrappings with included cable ties.

STEP2: MOUNT THE UNIT ON THE WALL

Mount or hang the ED2021 on the wall using screws. For convenience, it could also be tied on water pipe using cable ties.

STEP3: PLUG IN POWER ADAPTER

The LED lights should start flashing sequentially and indicates that the ED2021 is functioning properly.

TROUBLESHOOTING

POWER SURGES AND LOCK UPS

The ED2021 water conditioner is designed to operate without any interruption , providing years of enhanced water quality. If your water quality seems to have changed check the items below to determine that your ED2021 unit is functioning correctly.

To reset the ED2021, simply switch off the unit, wait for some time and switch on the power supply. If you are residing in an area where power surges are frequent it is recommended install a surge protector on the electrical outlet that the ED2021 transformer is plugged into.

LOOSE ANTENNA WIRES

The antenna wires must be held tightly against the pipe and the coils must be pressed snugly against each other to transfer the energy into the water . If the antenna wires are loose , tighten them and also retighten the wire ties . Make sure that the antennas are wrapped in the correct direction.

FREQUENTLY ASKED QUESTIONS

HOW IT WORKS?

Q. Does the ED2021 decrease the amount of calcium in my water ?

A. No. The ED2021 does not remove calcium from your water.

Q. Is the ED2021 effective for severely hard water ?

A. The ED2021 is effective for treating water with hardness as high as 425 ppm or 25 grains, For water which is harder than this it is recommended to use a traditional water softener in addition to the ED2021. ED2021 should be mounted before the softener for best results

R. Do I need more than one ED2021 for my home ?

A. One ED2021 is sufficient for most homes , with water mains of 1 inch or

less For houses with water supply mains larger than 1 " but less than 1.5 , it is recommended to install two ED2021 side by side.

Q. Is there any effect on water pressure due to ED2021 ?

A. With the reduction in scaling, ED2021 will have a positive impact on the water pressure as a side effect the water pressure will be improved.

Q. Will the ED2021 remove the hardness from my water ?

A. No. The ED2021 is not water softener and will not affect hardness measured with a traditional test. With an electronic water conditioner the results can be measured by observing changes in scale forming areas such as shower heads , cooking utensils, and even appliances.

PLACEMENT

Q. Does the direction of water flow have any impact on ED2021?

No.

Q. What is the best place to install ED2021 ?

A. It is where the main water line that comes into the house , before it splits to the water heater or other plumbing; preferably indoors. If you need to install ED2021 outdoors, please make sure the location is waterproof and with no direct sunlight and heat.

Q. Can the ED2021 be mounted horizontally ?

A. Yes. The box can be mounted in any direction, as long as the two antennas are wrapped on pipe in clock-wise and counter clock-wise direction for at least 7 rounds each.

Q. I have plastic piping in my home, can I use ED2021?

A . ED2021 is suitable for all types of plumbing, including plastic, copper and galvanized.

Is it necessary to install ED2021 on a pipe ?

Yes. The box can be tight on pipe, although it is recommended to mount the unit on the wall and wrapping the antenna around the pipe. Antenna should touch the pipe. A minimum of seven wraps per antenna are required.

Q. If I change home, can I take ED2021 with me ?

A. Yes. You can easily remove the ED2021 by un-wrapping the antennas and unplugging the unit, no plumbing is required.

FCC Information:

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

CORRECT DISPOSAL



This product is subject to the provision of European Directive 2012/19/EU. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

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