



Reverse Osmosis filtration advantages for Agriculture

RO filtration is commonly used to treat seawater and brackish water for irrigation in coastal and arid regions where freshwater is scarce. This allows farmers to grow crops in areas where they would otherwise not be able to.

Why Reverse Osmosis filtration for Agriculture?

Water treatment for agriculture involves removing impurities and contaminants from water used for irrigation and other agricultural purposes. Reverse osmosis (RO) filtration is a process that uses a semi-permeable membrane to remove impurities and dissolved solids from water which in the case of agriculture provides many advantages making it an effective and affordable solution.

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Key Advantages

- High effectiveness in removing dissolved minerals and other contaminants, making it suitable for treating water sources with high levels of impurities.
- Low energy consumption, which makes it a cost-effective option for large-scale water treatment.
- The ability to remove a wide range of impurities, including salt, bacteria, viruses, and other microorganisms, which can help to improve the quality of irrigation water and reduce the risk of disease in crops.
- The ability to produce water with a consistent quality and low levels of dissolved minerals, which can be beneficial for crops that are sensitive to variations in water quality.

CONTACT US



+1-954 857 1895 USA



sales@advancees.com



www.advancees.com

The Solution: Filtration by reverse osmosis for agriculture

Reverse osmosis is a method of water filtration that removes impurities from drinking water by using a semi-permeable membrane to trap big impurities and contaminants including chlorine, salt, and grime. Clean freshwater is produced when air moves from the more concentrated side of the RO membrane, which has more impurities, to the less concentrated side, which has fewer contaminants.

Through Reverse Osmosis Technology, ADVANCED Equipment and Services produces standard and custom Reverse Osmosis systems. Our Reverse Osmosis portfolio includes systems to fit needs in small, medium, and large size projects. All our systems come with Solar, Skid, or Containerized options.



Who we are?

ADVANCED Equipment and Services is a global provider of Reverse Osmosis (RO) and water purification equipment with broad experience in the designed and fabrication of Desalination and Brackish water systems. We served the municipalities, commercial and industrial markets, manufacturing efficient equipment, simple and easy to operate and maintain with high quality materials at some of the most competitive prices in the industry.

How reverse osmosis (RO) filtration is being used in agriculture:



Desalination of water for Irrigation:

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Recycling of agricultural water:

RO filtration can be used to treat and recycle agricultural runoff and wastewater for irrigation.



Hydroponic and aquaponic systems:

Which are increasingly being used in urban agriculture and indoor farming.



Livestock farming:

It can be used to purify water for the animals, and also to treat the wastewater generated by the animals.

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