

MEGHDOOT AWG - Water Extraction Process

The step-by-step process of extraction of water from the atmosphere using our machine is as follows:

1. Air is drawn in to the machine, where it passes through an air filter to remove any dust or pollutants present.
2. It is then passed into the Cooling Chamber present inside the machine which reduces the temperature of the air to the Dew Point temperature. This is the temperature at which water vapour becomes liquid water.
3. Following the cooling process, water droplets are formed on an Evaporator Surface which is made of Food-Grade Stainless Steel.
4. These water droplets then drop down into a Food-grade Stainless Steel Trough.
5. The water present in the Trough is then collected in a Food-Grade Stainless Steel Water Storage Tank.
6. Once collected the Filtration Process starts. The water is passed through a sediment filter, which removes contaminants up to 5 microns, following which it is passed through a carbon filter/s, which remove/s any bad odour or taste from the water.
7. Finally, the water passes through a Mineral cartridge where it is Re-mineralised with essential minerals such as (Sodium, Potassium, Calcium, Magnesium and other essential minerals in trace amounts), following which it is sent through a UV filter before dispensing.

The water dispensed by our machine is 100% microbe-free, Re-mineralised drinking water. The water is void from dust and other contaminants due to the extensive filtration and also has no traces of rust due to the Food- grade Stainless Steel components.