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| <b>Product Name :</b><br>Laboratory Deionizer output - 510/8hrs UHQPS | <b>Product Code :</b><br>ASTRALAB-SUPPLYA139008 |
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| <b>Description :</b>   |
| Laboratory Deionizer output - 510/8hrs UHQPS   |
| <b>Technical Specification :</b>   |
| Water is one of the most abundant natural elements. It is also one of the most contaminated ones. A number of minerals dissolve into water. They have to be removed from the raw water before it can be used for any industrial application. |

A demineralizer removes these minerals from the raw water by an ion-exchange process. This process first exchanges the cations of the salts for the hydrogen ions and, then exchanges the anions of the salts for the hydroxy ions. "MAC" water demineralizer's employ the modern on-exchange technology to give you chemically pure water.

In these days Softening of Water is almost exclusively effected by Ion Exchangers. In this process the calcium and magnesium ions are exchanged by sodium ions, so that the hardness forming components are converted into sodium salts. Softening is carried out by simple filtration through the exchange material.

When the exchange material is exhausted, it requires regeneration. The calcium and magnesium ions which were taken up before are then displaced by sodium ions and flow out together with the regeneration water. The capacities between regeneration and quality of treated water will however vary according to the raw water.



## Astra Scientific

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