



TECHNICAL DATA SHEET

ION EXCHANGER U2

Update November 2013

Characteristics :

- **Conductivity** : 3,5 à 10 µS/cm
- **Saturation** : the indicator goes from **GREEN** to **PURPLE** after exchange of 893 Meq
- **Maximum pressure**: 3 bar at ambient temperature (2.5 bar recommended)
- **Flow rate** : 20 litres/hour.
- **Temperature of use**: 10-60°C
- **Dimensions**: Height 500 mm, Diameter 60 mm.
- **Gross weight**: 1.35 kg
- **Preservation**: 1 year, in its origin packaging, at ambient temperature.

Description

The U2 ion exchanger is made up of a polystyrenic resin exchanger of cations which are strongly acid and of a polyacrylic exchanger resin of anions which are lowly basic.

It is characterised by a great exchange capacity.

It makes possible to produce water partially demineralised: by treating the water in 20 litres / hour, the U2 ion exchanger fixes almost totally cations and strong acids, such as chlorides, sulfates and nitrates.

The carbon dioxide and the silica are not totally eliminated.

A colouring indicator makes it possible to visualise the saturation point.

Performances

Conductivity is related to the alkalinity of influent water

Capacity can be estimated by the formula:

$$\text{Vol} = \frac{650}{ST}$$

Vol is the number of litres of water of total salinity ST (meq/l) which can treat one litre of resin to saturation

Properties

Skeleton : Polystyrene and acrylic / divinylbenzène

Functional groups:

Tertiary sulfonic amine

Composition : 60 % strong cations, 40% averagely basic anions.

Ionic form:

H+ et free base

Tolerated maximal temperature : 60 °C

Chemical resistance : Insoluble in acids, diluted bases and usual solvents.

Colour :

New **GREEN**, saturated **PURPLE**

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