



**ECOPERLA**

# ECOPERLA NITRATOWER

## NITRATE REMOVAL

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### DESCRIPTION

Ecoperla Nitratower removes nitrate from utility water in households. The device is based on the principle of ion exchange. During this process, dissolved substances are eliminated from water. The regeneration process takes place using salt (sodium chloride NaCl) available in the a tablet form.

### CHARACTERISTICS

- Fully automatic, electronic control of the filter regeneration process with the use of a high-quality automatic Clack control valve
- Simple hydraulic connection
- Effective removal of mechanical contaminants
- Low salt consumption
- Built-in flow meter allows for time, volume and mixed control of the regeneration process



## TECHNICAL SPECIFICATIONS

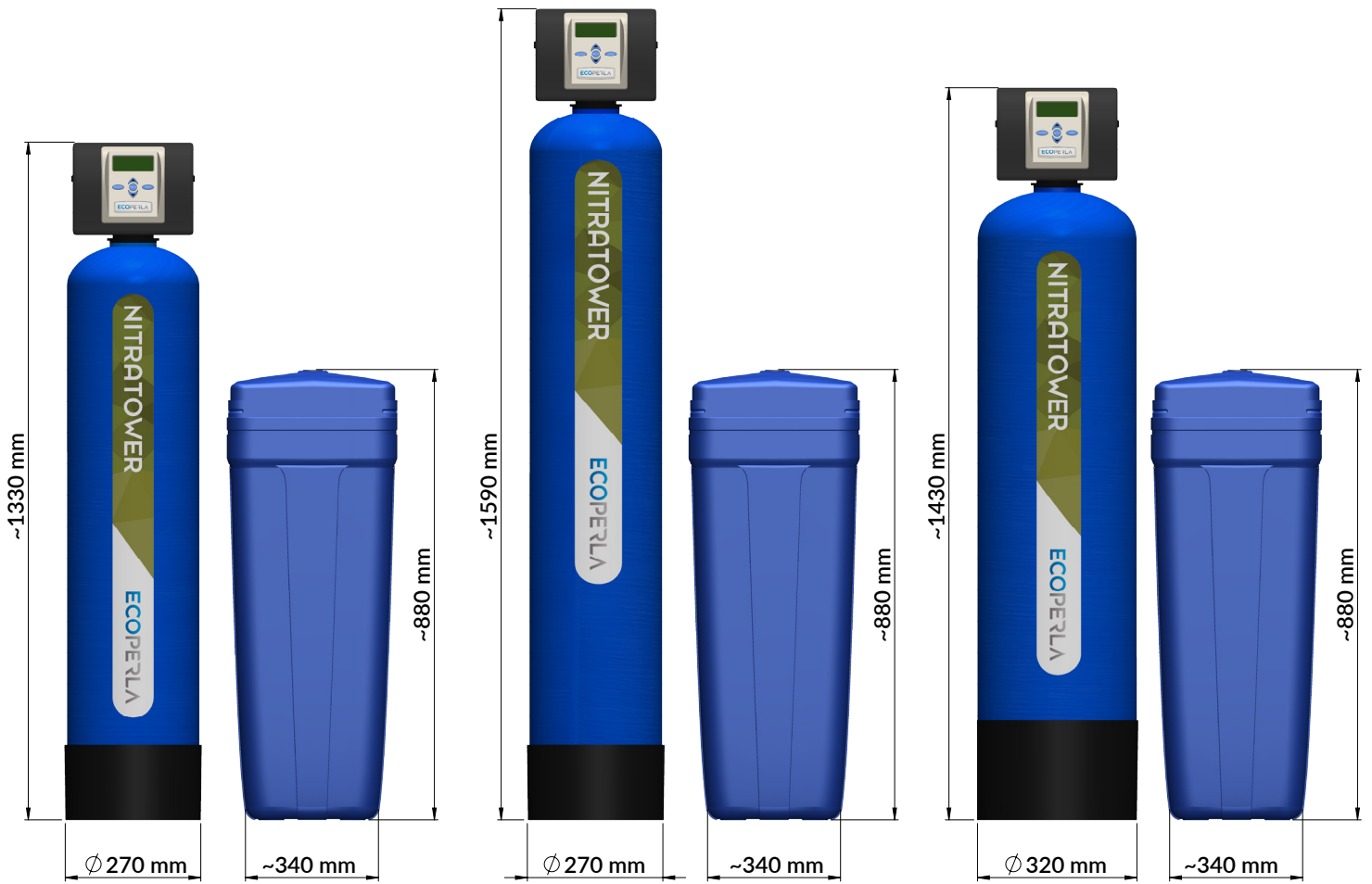
|   | S               | M               | L               |
|---|-----------------|-----------------|-----------------|
| Control valve   | Clack Pallas DF | Clack Pallas DF | Clack Pallas DF |
| Connection  | 1"              | 1"              | 1"              |
| Medium amount [L]   | 25              | 35              | 50              |
| Nominal flow rate [m3/h]  | 0,8             | 0,9             | 1,1             |
| Maximum flow rate [m3/h]  | 1,6             | 1,8             | 2,2             |
| Required water flow during the rinsing process with the pressure of 2 bar [m3/h]  | 0,4             | 0,4             | 0,5             |
| Salt consumption per regeneration [kg]  | 4,5             | 6,3             | 9,0             |
| Water consumption per rinsing [L]   | 180             | 180             | 250             |
| Dimensions of column cylinder [inch]  | 10 x 44         | 10 x 54         | 12x48           |
| Column width [mm]   | 270             | 270             | 320             |
| Column height [mm]  | 1330            | 1590            | 1530            |
| Column depth [mm]   | 300             | 270             | 320             |
| Brine tank volume [L]   | 70              | 70              | 70              |
| Brine tank width [mm]   | 335             | 335             | 335             |
| Brine tank height [mm]  | 880             | 880             | 880             |
| Brine tank depth [mm]   | 335             | 335             | 335             |
| Electrical connection [V/Hz]  | 230/50          | 230/50          | 230/50          |
| Water amount between regenerations for nitrate and sulphate total 2.5 mval/l [m3] | 2,5             | 3,5             | 5,0             |

## DIMENSIONS

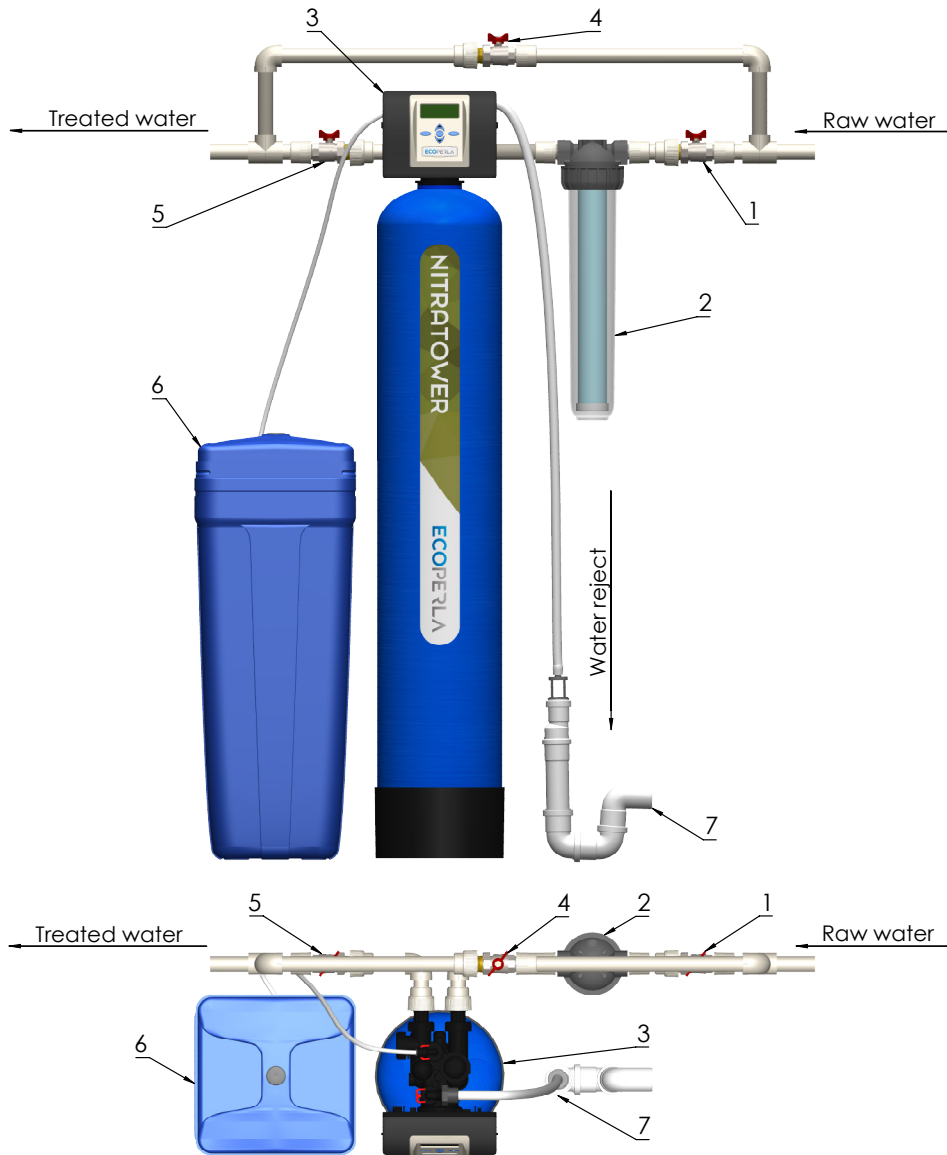
S

M

L



## ECOPERLA NITRATOWER CONNECTION DIAGRAM



|    |                                       |
|----|---------------------------------------|
| 1. | Inlet valve to Ecoperla Nitratower    |
| 2. | Mechanical water filter               |
| 3. | Ecoperla Nitratower                   |
| 4. | Bypass valve                          |
| 5. | Outlet valve from Ecoperla Nitratower |
| 6. | Salt container                        |
| 7. | Drain to the sewage system            |

### NOTES

- Automatic regeneration with salt solution.
- Since brine is dosed by a precise injector, a mechanical pre-filter should be used to protect the control valve from suspended solids.