1 Filtration And Adsorption Unit
1-1. Elepon E.C.A.P. Corporation - Filtration and Adsorption Unit -

I. Sand Filtration Unit / Activated Carbon Absorption Unit

- Features
  - Small size and light, safety by little installation area
  - Operation by two methods of manual and fully automatic type
  - Fully automatic type is easy to daily maintenance without complex operation. The unit is excellent to operate with single five direction bulb and multi bulb.
  - The unit can operate continuously in long term by reverse washing filler inside filtration tower.

- Overview

Flow diagram of treatment
- No adaptation in case of activated carbon absorption, removal of iron/manganese, soft water generated from hard water

### Performance/Specifications

- Specifications of RS, ARS, AR, RCS, ARCS, ARC series

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (m³/hr)</th>
<th>Main Pipe Caliber (mm)</th>
<th>Product Size (core parts) (mm)</th>
<th>Weight as Operation (kg)</th>
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<tbody>
<tr>
<td>RS 40-15</td>
<td>1</td>
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- Note: Capacity of treatment and specifications indicated above are different by water quality of wastewater.

### Activated carbon absorption unit / RCS series: manual simple five direction bulb

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- Note: Capacity of treatment and specifications indicated above are different by water quality of wastewater.
- Many kinds of wastewater treatment equipment
- Water supply, industrial water supply, processing water
- Pretreatment such as ion exchange resin equipment, etc.
- Pool, public bath, etc.
II. Liquid Filtration Unit ‘Cocoon series’ -----  

**Features**  
- Bag or cartridge multi-use  
- Light weight and high corrosion resistance, economy by one body molding of polypropylene  
- Clean filtration of water, acid, alkali, chemical product, medicine, oil, etc.  
- Simple design without liquor accumulation  
- Saving space by compact unit  
- Wide range for filtration accuracy from 1 micron to 800 micron  
- Easy maintenance by adoption of large cartridge and mud possession capacity with 20 times as same as 10 inch cartridge as standard  
- Molded mouth of filter bag contacted inside tank is sealed without leakage.  
- Design superior to cheap, light weight, simple structure and easy dealing  

**Overview**  

**Performance/Specifications**  
- Example for specifications  

<Unit specifications >  
- Max. treatment capacity: 18 m³/hr (as pure water)  
  * Flow rate may decrease under loading state, however, treatment capacity: can be up by addition to filter.  
  * Automatic stop control can be conducted by pressure meter to preserve pump.  
- Body material: polypropylene(PP)  
- Pipe material: polyvinyl chloride(PVA)  

<Filter specifications >  
- Body E-100B(back filter type), E-100C(cartridge type)  
  * Body: one body molding of polypropylene  
  * Basket: molding of polypropylene  
  * Leg part: resin
* Pressure-resistant: 700kPa (43°C)
* Product weigh: 45kg
* Contact caliber: 50A screw-in

- Filter bag
* Opening: poly-rock
* Filter: polypropylene
* Diameter: 152nm
* Length: 508 nm
* Surface area: 0.2 m²
* Passing water volume: 150-200L/min

- Cartridge
* Seal part: poly-seal
* Filter: polypropylene microfiber
* Diameter: 140nm
* Length: 590 nm
* Volume: 8,200 m³
* Passing water volume: 150L/min

![Graph showing pressure versus temperature](image)

**Applications/Experience**
- Machine work: Separation of suspen solid - liquid (ceramic polishing solvent, printed board polishing solvent, coolant solvent)
- Surface preparation: Before/after- treatment of alkali removal of fat, various electric plating solvent, precious metal plating(activated carbon), no treatment solvent of activated carbon and zinc etc.
- Water treatment: Industrial water supply (ground water, reservoir/lake), drainage water, pre-filtration etc.

**Reference**

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