

ADSORBENTS FOR WATER TREATMENT [®]

TRAPPSORB
 System Design Guidelines

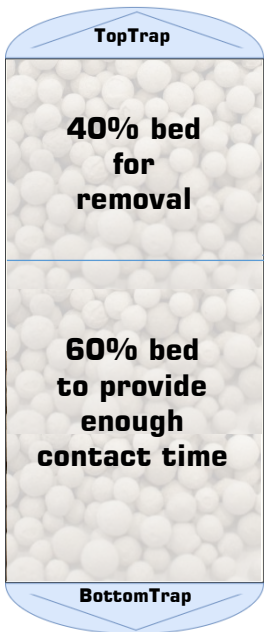
TRAPPSORB BED

TRAPPSORB systems are normally designed as packed bed system, where 40 % of its bed can be considered for the consumption during the treatment and 60% bed should always be there to provide enough contact time for the treatment.

Service Velocity: 10 m/h

Adsorber consumption: 1 mg : 1.5 mg (contamination : product)

**This is an average capacity by considering different capacity for different contaminates in water.*



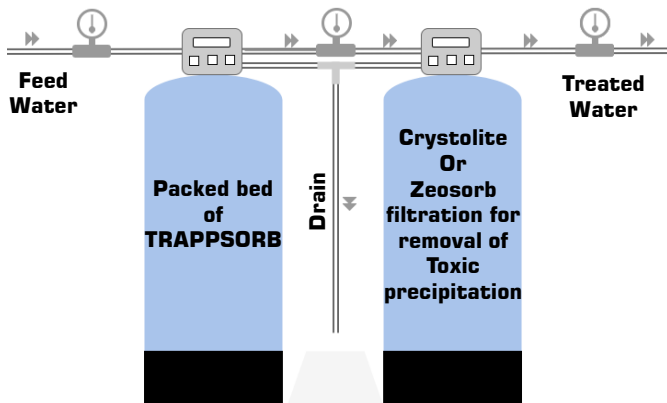
System design Example for 1 m3/h TRAPPSORB.

- ✓ Minimum bed (for contact time) = Flow in liters per hour/10 = 1000/10 = 100 liters (130 kg)
- ✓ To provide capacity (40% of vessel) = 100 liters x 100/60 x 0.40 = 66.6 liters (86.5 kg)
- ✓ Vessel Size: 100 liters + 66.6 liters = 167 liters

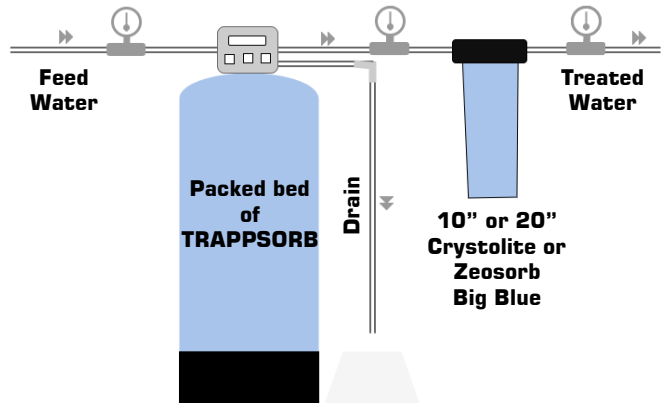
Capacity of the system: 86.5 kg x 10^6 / 1.5 = **57,667 x 10³** (mg) adsorption of contaminates.

This means once the capacity is over, you need to fill again 40% of the media inside the pressure vessel.

Big Scale Application



Domestic Application



After treatment using TRAPPSORB to filter out all the precipitated toxic contaminants, it is highly recommended to install a filtration system using Watch Water's Crystolite or Zeosorb.