

# Air Stripping of Water Design

## *Proper Packing Choice*

**Volatile Chlorinated Organics, Radon, Hydrogen Sulfide  
Benzene / Ethyl Benzene / Toluene / Xylene  
Ammonia, Methyl Ethyl Ketone, Carbon Dioxide**



Water contamination is by trace compounds such as those listed in the header here can be found in many locations, from many sources. VOCs may creep into groundwater from old dry cleaning locations. Likewise BETX compounds can be traced to leaking underground petroleum storage tanks. Other compounds such as NH<sub>3</sub> and MEK might be sourced to an industrial location. CO<sub>2</sub> is often found at high concentrations in well water. Likewise H<sub>2</sub>S is found in ground water in many locations – water that is otherwise potable except of a trace rotten egg smell.

An “Air Stripper” passes the contaminated water counter currently over a packed bed in a tower, air up, water down. This achieves mass transfer of the contaminant(s) from the water to the air. When the water exits the tower, if the tower is properly designed and operated, the water is fit for discharge, drinking or other intended use

To help us design an air stripper for your projector recommend a packing for a retrofit of an existing unit please provide the data requested below. An easy to use form to use data sheet is found on reverse side.

### Required Data – Design of New Tower

Contaminant(s) with Inlet Concentrations  
pH and Water Hardness (if known)

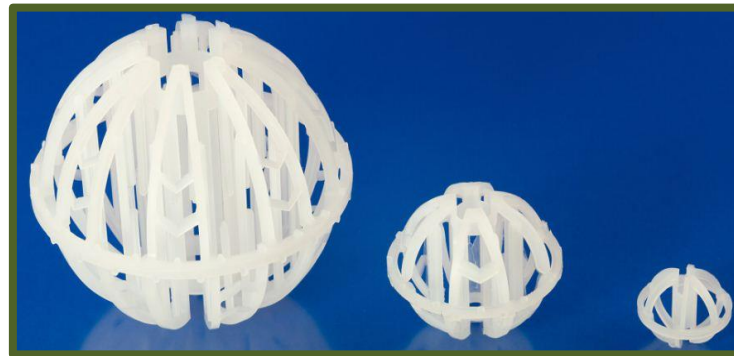
Required Outlet Concentration(s) or % Removal  
Required pH if CO<sub>2</sub> / pH Adjustment of Water

Lowest Possible Water Inlet Temperature

### If Repack / Retrofit of Existing Tower, please add:

A/W or Maximum Fan Air Flow  
Current Packing and  $\Delta P$  of the Packed Bed  
Diameter of Tower, Depth of Packed Bed

Lastly – any additional project information that may be useful to us. Example, if an existing tower, is fouling an issue? Do not hesitate to provide as much information as you wish.



3.5”, 2” and 1” sizes of Jaeger Tri-Packs®  
Wet Scrubber and Air Stripper Tower Packings  
*Jaeger Tri-Packs® is a trademark of Raschig-USA, Inc.*

In polypropylene all sizes are NSF (National Sanitation Foundation) Standard 61 listed as acceptable for potable water contact.

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Air Stripper Design Data

Name:

Firm:

Address:

Phone:

FAX:

Email:

Water Flow / Please Define Units:

Water pH and Hardness:

Lowest Possible Inlet Water Temperature °C / °F:

Contaminant(s)	Inlet	Outlet or % Removal Required
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### **IF RETROFIT / REPACK**

Diameter of Tower:

Current Packing Type / Size:

Packed Bed Depth:

Packed Bed Pressure Drop:

A/W Ratio:

Maximum Fan / Blower Air Flow:

Please complete as best as possible and fax / email and scan to us. Feel free to use a separate sheet if needed to fully describe the project.