

Packed Bed Wet Gas Scrubber Design

Proper Packing Choice

Dimethyl Amine (DMEA), Trimethyl Amine (TEA), Ammonia (NH₃), HBr and Br₂, HCl Acetic Acid (CH₃COOH), Phenol, H₂S, Dimethyl Sulfide [(CH₃)₂S], SO₂, Cl₂, ClO₂



Gas contaminated with water soluble species, such as those listed in the header above, is often cleaned in a packed bed wet scrubber. This proven technology has been in wide use for well over 100 years. The gas to be treated may be the result of an industrial process, or be a flue gas from an incinerator of some type or be foul smelling off gas from a wastewater treatment or food processing plant. The gas with offending constituent(s) is passed over bed of packing as water is passed over the packing either counter current or sometimes in cross current design. The packing enhances mass transfer of the pollutant species from gas to liquid (water) phase. In some instances the water is pH adjusted as well as having an added chemical, such as an oxidizing agent, which destroys the pollutant after that species is transferred into the liquid phase.

To help us design a wet scrubber for your air flow, please provide the data requested below. Find a form to use on the other side of this flyer.

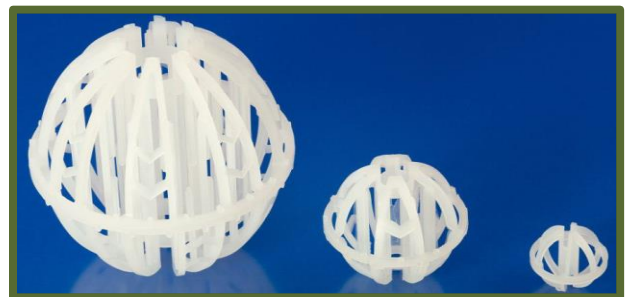
Required Data – Design of New Tower

Contaminant(s) with Inlet Concentrations
Required Outlet Concentration(s) or % Removal
Gas Inlet Temperature and Pressure

If Repack / Retrofit of Existing Tower, please add:

Current Packing and ΔP of the Packed Bed
Diameter of Tower, Depth of Packed Bed

Lastly – any additional project information that may be useful to us. Examples, if new tower is there a height restriction? 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 Packing
Jaeger Tri-Packs® is a trademark of Raschig-USA, Inc.



Low Profile Rings® Wet Scrubber and Air Stripper
Tower Packing – in Various Plastic Resins
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Wet Scrubber Design - New and Repacks

Name:

Firm:

Address:

Phone:

FAX:

Email:

Gas Flow / Please Define Units:

Inlet Gas Temperature °F or °C:

Inlet Gas Pressure:

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:

Water Recirculation Rate:

Water pH / ORP (if applicable):

Additives Used:

Please complete as best as possible and fax or scan/email to us. Feel free to use a separate sheet if needed. Also if there are any special concerns such as height restriction, fouling of existing packing, etc., please inform us of such.