

Kompakt®
Tubular Block Media

KOMPAKT™ Tubular Block Media for Submerged Fixed Bed Systems



Kompakt Media consist of polyethylene tubes heat welded together on the ends to create a rectangular block. The 3-dimensional openness of Kompakt allows for complete mixing of the liquid in the reactor, improving treatment efficiency.

Media Characteristics:

- Standard module sizes: 2'x2'x2' and 2'x4'x2'
- Vertical tube orientation resists plugging
- Internal fins of individual tubes provide surface area
- Large openings in all directions promotes complete mixing of liquid in reactor
- Polyethylene material is biologically and chemically resistant and is neutral to microorganisms
- Heat welding creates rugged modules



Submerged Fixed Beds (SFB) consist of a fixed media installed in an aeration tank followed by a clarifier. The overall plant layout is similar to activated sludge with the exception that no sludge is returned to the reaction tank because the biomass is attached to the plastic media.

SFB systems have a smaller footprint and are less expensive to construct than activated sludge systems. The SFB aeration tank is smaller because there is more bio-mass in the SFB reactor and without sludge recycle, the final clarifier of the SFB systems is also smaller. And, SFBs are better suited for treating difficult to degrade organics because they are immobilized in the bio-film and broken down by specialized bacteria.

Other advantages of SFBs include, lower sludge production, better settling sludge, higher oxygen transfer efficiency,

simplicity, resistance to shock loadings and from washing out of the biomass.

Existing activated sludge aeration basins can be retrofitted with Kompakt to increase the treatment capacity. There are more than twenty-five Jaeger Environmental submerged fixed bed systems treating many types of wastewaters, including: domestic, food processing, chemical, brewery, pharmaceutical, creosote and paper.

Pilot plants are available for on-site trials.

Jaeger Environmental also manufactures and supplies other water and wastewater treatment products including Sessil, Bio-Pac, and Dura-Pac trickling filter medias, Nor-Pac high performance tower packings and Copasac Screening systems. Please contact us for more information on these products.



Jaeger Environmental
1121 Richmond St. (Physical)
P.O. Box 240 (Mailing)
Selma, VA 24474
Phone: 540-862-8426
Fax: 540-862-8427
Email: info@jaegerenvironmental.com
www.jaegerenvironmental.com

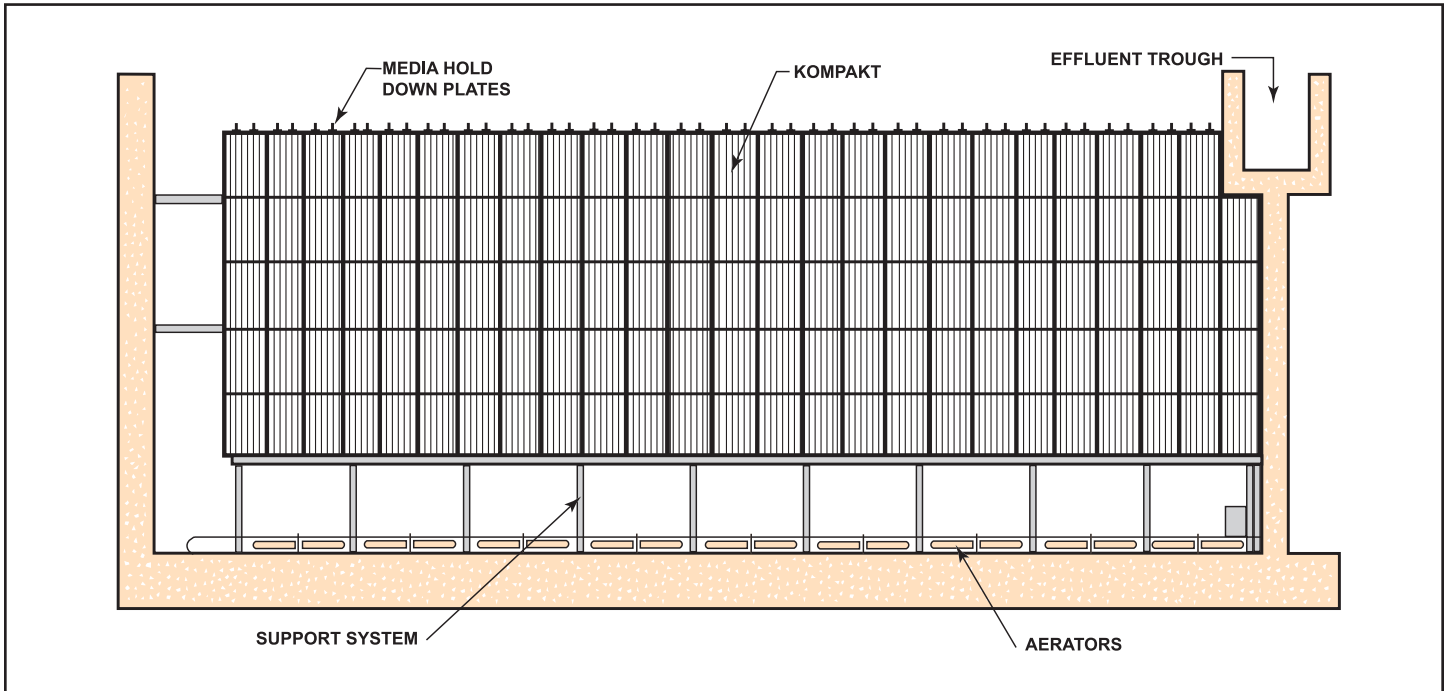
Corporate Offices
Jaeger Products, Inc.
1611 Peachleaf St.
Houston, Texas 77039
800-678-0345
281-449-9500
Fax: 281-449-9400
E-mail: jinfo@jaeger.com
www.jaeger.com



RASCHIG GmbH
Mundenheimer Strasse 100
67061 Ludwigshafen - Germany
Phone: +49.621.5618-602
Fax: +49.621.5618.604
email: hneis@raschig.de
www.raschig.de

Locations/Production Sites
Ludwigshafen and
Espenhain, Germany
Houston, Texas
El Dorado, Kansas
Monterrey, Mexico

Typical Kompakt™ Submerged Fixed Bed Section

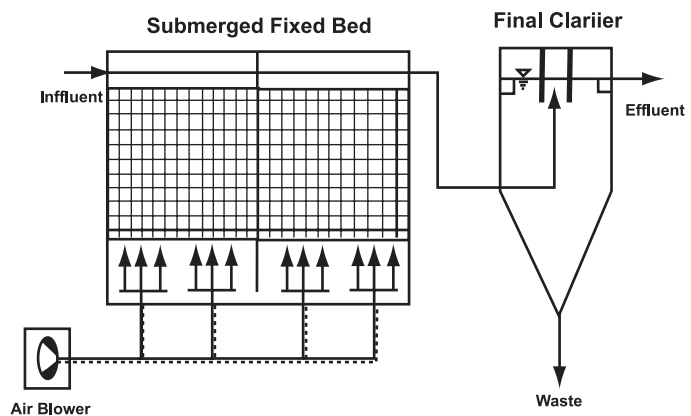


Typical Kompakt SFB Flow Schematic

Although similar to an activated sludge flow schematic, an SFB plant does not require secondary sludge to be recycled to the reaction tank.

Benefits:

- High operational stability
- Compact construction
- Operational flexibility
- Low operating costs



Treatment Alternatives

Submerged Fixed Bed technology has the ability to be used for various treatment requirements including:

- Pretreatment of high strength wastewater
- Total biological treatment
- Nitrification
- Denitrification

Represented by: