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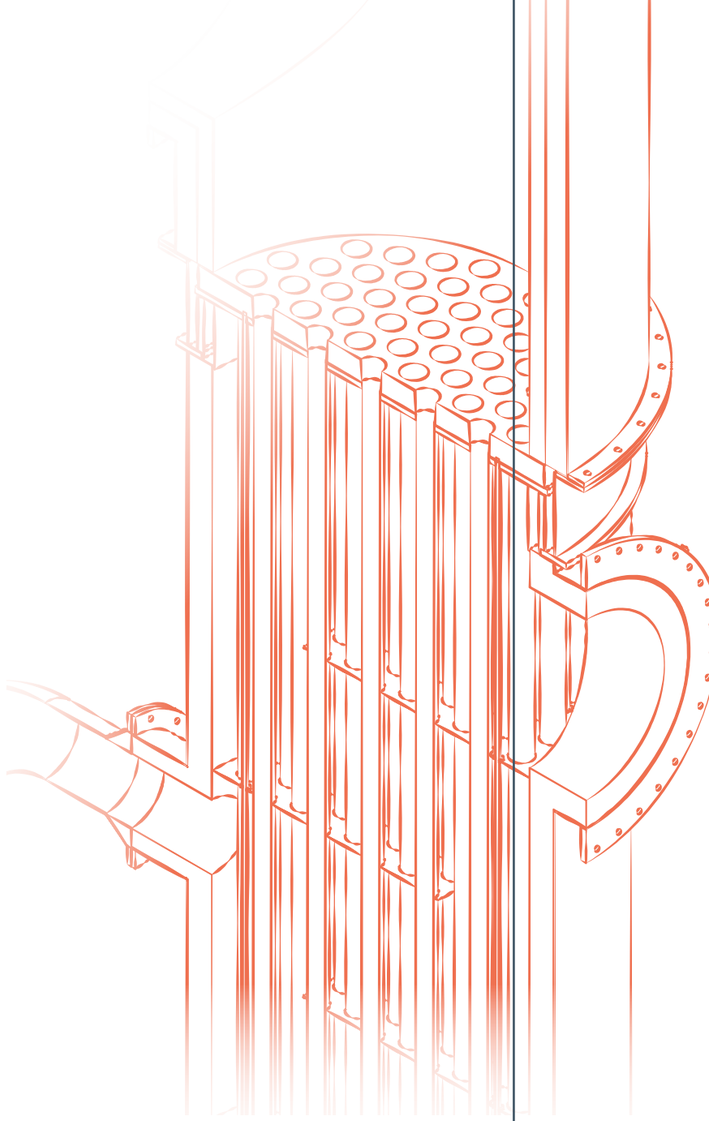
SCHMIDTSCHE SCHACK

ARVOS GROUP

SCHACK® AIR PREHEATER

Reliable solution for sludge incineration plants



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KEY TO EFFICIENCY

The **SCHACK FGTT Type 'Recuperator'**, incorporates a design whereby hot flue gas flows through the tubes (FGTT) with preheat air flowing over the tubes in multiple cross-counterflow passes. The FGTT tube bundle is an all welded construction, with refractory lined casing.

The high velocity dirty gas flow within the tubes is parallel to (rather than normal to) the heat transfer surface. This eliminates erosive impingement, which would limit life. Additionally, the combination of vertical tubes plus high velocity flue gas flow results in a self-cleaning design. Schack recuperators in this service have lasted as long as 20+ years without tube replacement.

The FGTT construction has wide acceptance in dirty gas environments, with hundreds of ‚Schack' recuperators in service worldwide for fluid bed incinerators alone.

Every stack that exhausts hot flue gases to the atmosphere represents irretrievable thermal energy. If recovered as useful heat, it directly translates into savings in total energy costs and possibly reduced capital costs.

Common preheats of 1,000 to 1,400 F [538 to 760 C] with hot gas inlet temperatures of 1,400 to 1800 F [760 C to 982 C].

DESIGN FEATURES & BENEFITS

SCHACK® FGTT AIRPREHEATER

Each FGTT Recuperator is custom designed for it's particular application. The following are common features:

- **Individual tube expansion joints** to prevent tube and / or tubesheet damage in the event of uneven heat transfer due to plugging or fouling.
- A large **main expansion joint** compensates for differential movement between the tube bundle and the cool, refractory-lined shell.
- High Alloy construction; Austenetic Stainless Steels, Alloy 20, Alloy 800 and Alloy 625.