North American 8484 Radiant Tube Recuperators

Design Features

Counterflow of products of combustion (poc) and combustion air gives the highest heat transfer effectiveness. [There is no need for parallel flow to protect components because of the lower (2000°F) temperature limit when used with radiant tubes.]

The seal is at the cold air end — for long life.
—— If the seal does eventually leak, it will leak cold air—not high-energy hot air.

— Packing seal
—— Corebuster (held in by gravity) must be installed in vertically-up position.
—— Moveable end of heat exchange wall
—— Cold air in
—— Hot poc
—— Preheated air
—— Cold air
—— Free rise for a puff
—— Adjust for bypass or pressure control

Expands upward through seal at top (cold air end). Fixed at bottom (hot air end).

This construction allows lateral expansion but keeps the joint tight.

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WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., is inherent with any combustion application. Parts of this product may exceed 160°F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters’ recommendations, and care in operation.