The RTR is ideal for large steam boilers and hot water boilers with rectangular stacks - round exhausts will require optional stack transitions. When equipped with an optional actuator, the internal gas bypass can be used to temper the exiting gas for stack corrosion control or maintain water temperatures when too much heat is available. The RTR has individual fin tubes compression fitted to the liquid manifold for ease of tube replacement requiring no welding. Finned tubing material is available in stainless steel, carbon steel, 316 stainless tube and carbon steel fin or Al-Fuse with special fin spacings when specified. The RTR Series can be equipped for use with cold water or condensing applications. In addition, the RTR can also operate on No. 6 fuel oil when equipped with an optional sootblower.
Boiler Exhaust Gas Economizer with modulating exhaust bypass control and timed automatic sootblower.

- Type 316 Stainless Steel Tubes (carbon steel available)
- Stainless Steel Interior Shell
- Hinged Access Door (optional)

- ASME Stamp (optional)
- Liquid Manifold Assembly
- Compression Fittings for Tube Removal/Replacement
- Factory Insulation
- Carbon Steel Exterior
The RTR is ideal for large steam boilers and hot water boilers with rectangular or square stacks (combustion sources with round exhausts will require optional stack transitions). Typical heat sinks include boiler feedwater, makeup water, hot water return, hot water storage tank, condensate tank, process water, and potable water. The RTR Series for combustion exhaust retrofit has fin tube material available in stainless steel, carbon steel, 316 stainless tube and carbon steel fin or Al-Fuse with special fin spacings when specified. The internal gas bypass can be used to temper the exiting gas for stack corrosion control, to maintain minimum exhaust temperature leaving the economizer, or temper maximum water temperatures when too much heat is available. The RTR can also operate on No. 6 fuel oil combustion, but would require an optional sootblower. The RTR has individual fin tubes compression fitted to the liquid manifold, providing easy tube removal for inspection, cleaning or replacement, without any welding.

When equipped with an optional actuator, the Stainless Steel Bypass adjusts to changing heat recovery need by controlling the amount of exhaust gas passing through the exchanger.

Vertical RTR shown with optional hinged access door and sootblower assembly.

Swagelok compression fittings provide easy finned tube removal for inspection, cleaning or replacement, without any welding.

Cain’s exclusive Timed Automatic Sootblower uses Flood-Jet type nozzles which form a unique high-velocity knife action, allowing full penetration of the complete heating surface. This controlled cleaning action ensures that maximum Btu recovery and anticipated savings continue to be achieved.

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The RTR (Rectangular Tube Recovery) series can be used for large steam boilers and hot water boilers with round stacks by using an optional transition adapter as shown. Heat sinks include boiler feedwater, makeup water, hot water return, hot water storage tank, condensate tank, process water, and potable water. Individual finned tubes are compression-fitted to the liquid manifold, providing easy tube removal for inspection, cleaning or replacement, without welding. The RTR Series can be specified with stainless steel or carbon steel finned tubing, 316 stainless tube and carbon steel fin or Al-Fuse™ with special fin spacings. With an optional modulating actuator, the internal gas bypass can be used to temper the exiting gas for stack corrosion control, to maintain a minimum exhaust temperature leaving the economizer, or temper maximum water temperatures when too much heat is available. With an optional sootblower, the RTR can also operate on No. 6 fuel oil combustion.