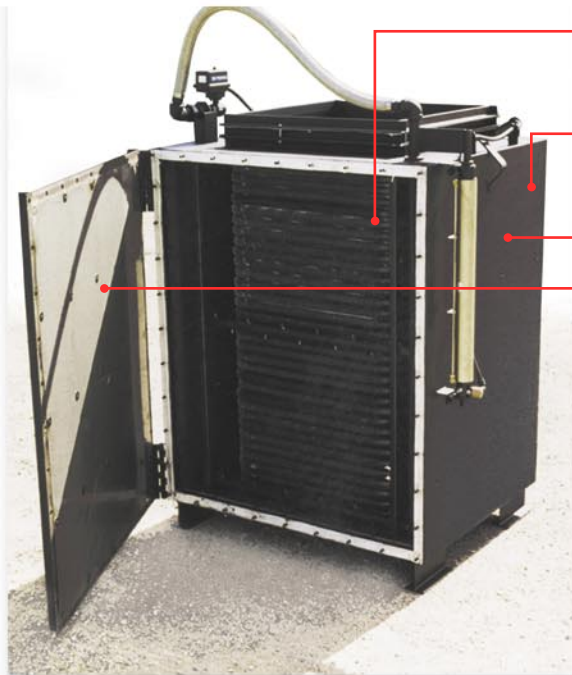




# RTR SERIES



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.

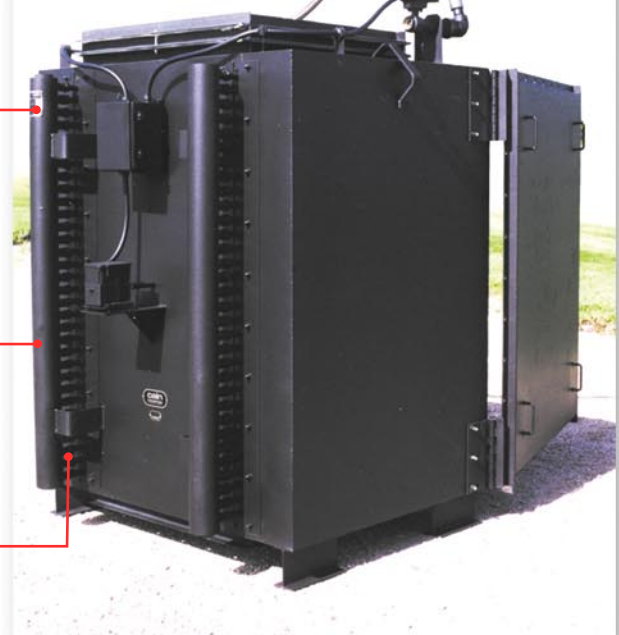


Type 316 Stainless Steel Tubes  
(carbon steel available)

Stainless Steel Interior Shell

Carbon Steel Exterior &  
Factory Insulation

Hinged Access Door (optional)



ASME Stamp (optional)

Liquid Manifold Assembly

Compression Fittings for  
Tube Removal/Replacement

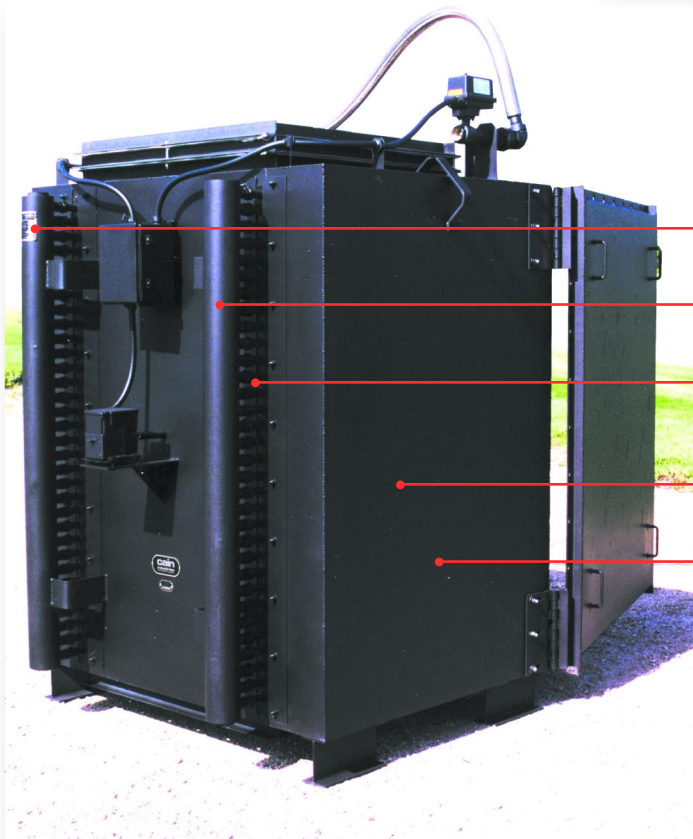


Boiler Exhaust Gas Economizer with modulating exhaust bypass control and timed automatic sootblower.

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

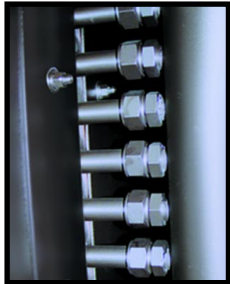
Carbon Steel Exterior



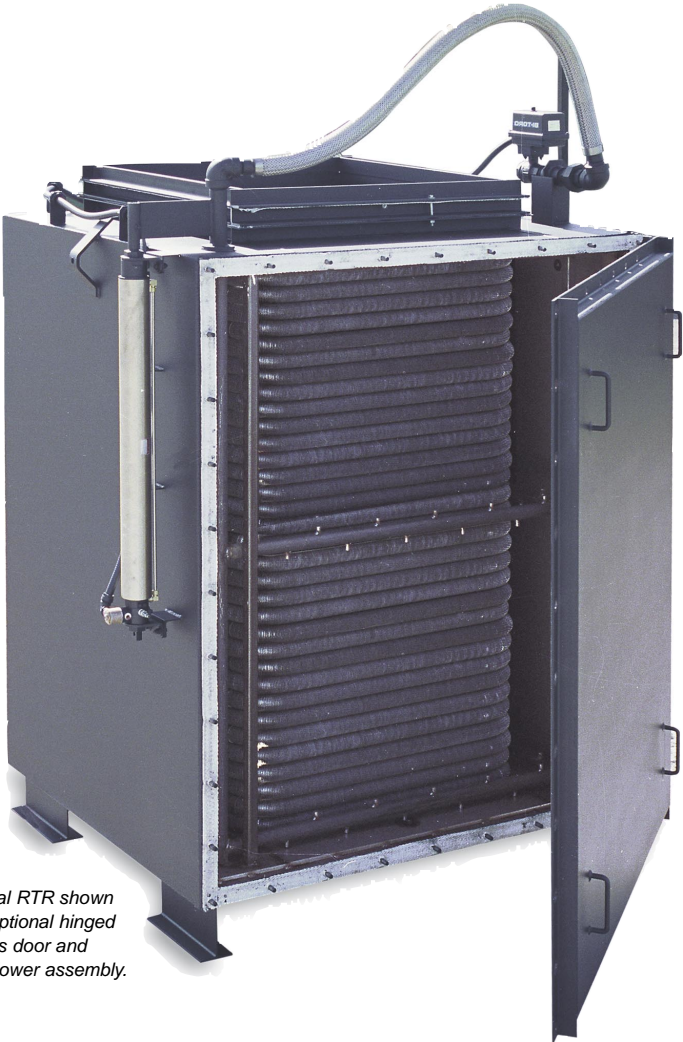


# RTR SERIES

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.

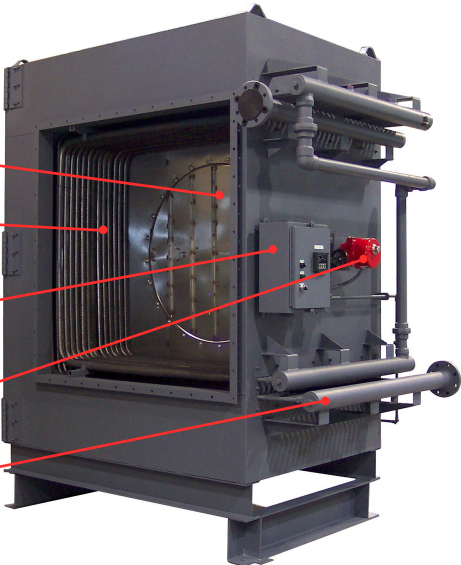


Swagelok compression fittings provide easy finned tube removal for inspection, cleaning or replacement, without any welding.



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

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



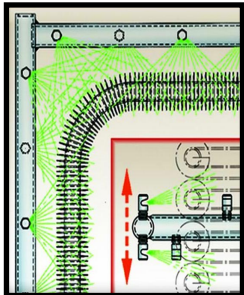
Finned Tubing for maximum heat recovery

Optional Control Panel: Interval and duration of sootblower and Stack Corrosion Control

Optional Modulating Damper Actuator adjusts internal bypass for optimal performance

Liquid Manifold Assembly

Horizontal RTR



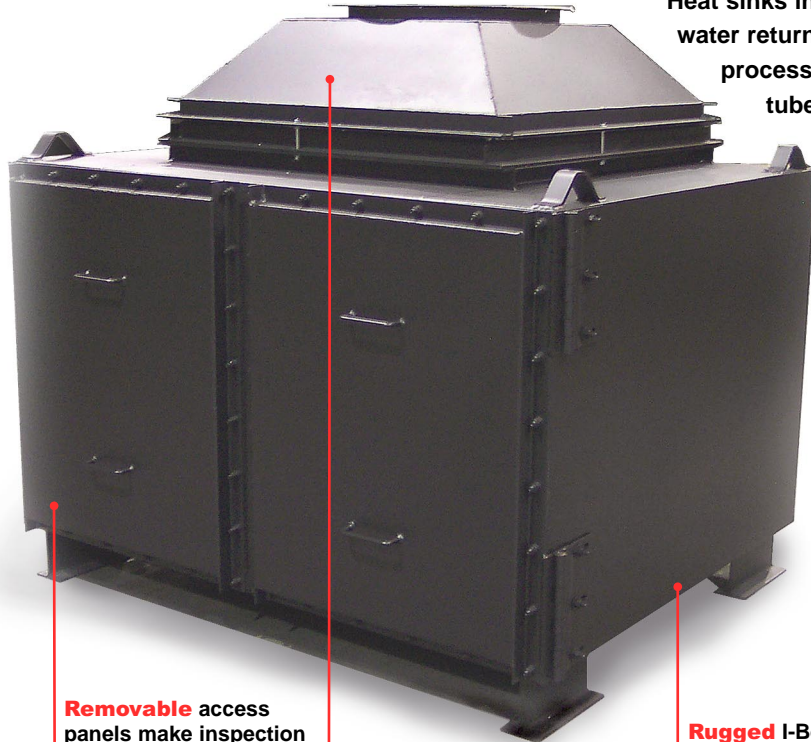
Cain's exclusive Timed Automatic Sootblower uses Flood-Jet type nozzles which form a unique high-velocity knifing action, allowing full penetration of the complete heating surface. This controlled cleaning action ensures that maximum Btu recovery and anticipated savings continue to be achieved.





## RTR SERIES WITH STACK TRANSITION

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.



**Removable** access panels make inspection and cleaning easier and faster.

**Optional** stack transition for installation on round stack.

**Rugged** I-Beam supports and lifting eyes reduce installation time and increase safety.

**Choice** of finned tubing materials for maximum heat recovery. Single row configuration for easy cleaning.

**Stainless** Steel Bypass adjusts to heat recovery need by controlling the amount of exhaust gas passing through the RTR.

**Seam-welded** 10ga hard shell case and stainless steel interior, with no pressure welds in the exhaust gas stream, to help minimize leaks.

**Swagelok™** compression fittings for easy finned tube inspection, cleaning or removal, without requiring any welding.

