

FIN TUBE RECOVERY SERIES

The FTR is a cylindrical economizer with header manifolds for low liquid side pressure drop. It can be used in applications with confined area restrictions. Heating surfaces are offered in stainless, carbon, or AL-FUSE™ finned tubing. The large number of standard models provide height and diameter combinations that work in applications with space constraints, while still achieving maximum heat recovery. Stack-to-FTR adapters are required when the gas connection diameters do not match. The FTR unit is selected over the FCR when low liquid side pressure drops are required or when there are large volumes of flue gas available. Flexibility allows specific engineering requirements to be met, such as fin spacing for fouling conditions and low gas pressure drops.

COMBUSTION SOURCES

Steam boilers, hot water boilers, hot oil heaters, combustion sources with round stack diameters 14"-72" and liquid flow rates of 50-500 gpm.

FEATURES

- Mounting flanges for bolting to mating flanges or adapters
- Header manifold for high liquid flow rates
- Hinged stainless steel access door panels
- Quick release tension latches for doors
- Manual bypass control lever
- Stainless steel internal bypass assembly
- Internal thermal expansion design
- Optional sootblower assembly



The FTR has standard hinged, stainless steel access doors with quick release tension latches. It is ideal for large volumes of flue gas while minimizing liquid side pressure drops.

- Large gas volume
- Low liquid side pressure drop,
- Space constraints



Boiler Exhaust Application

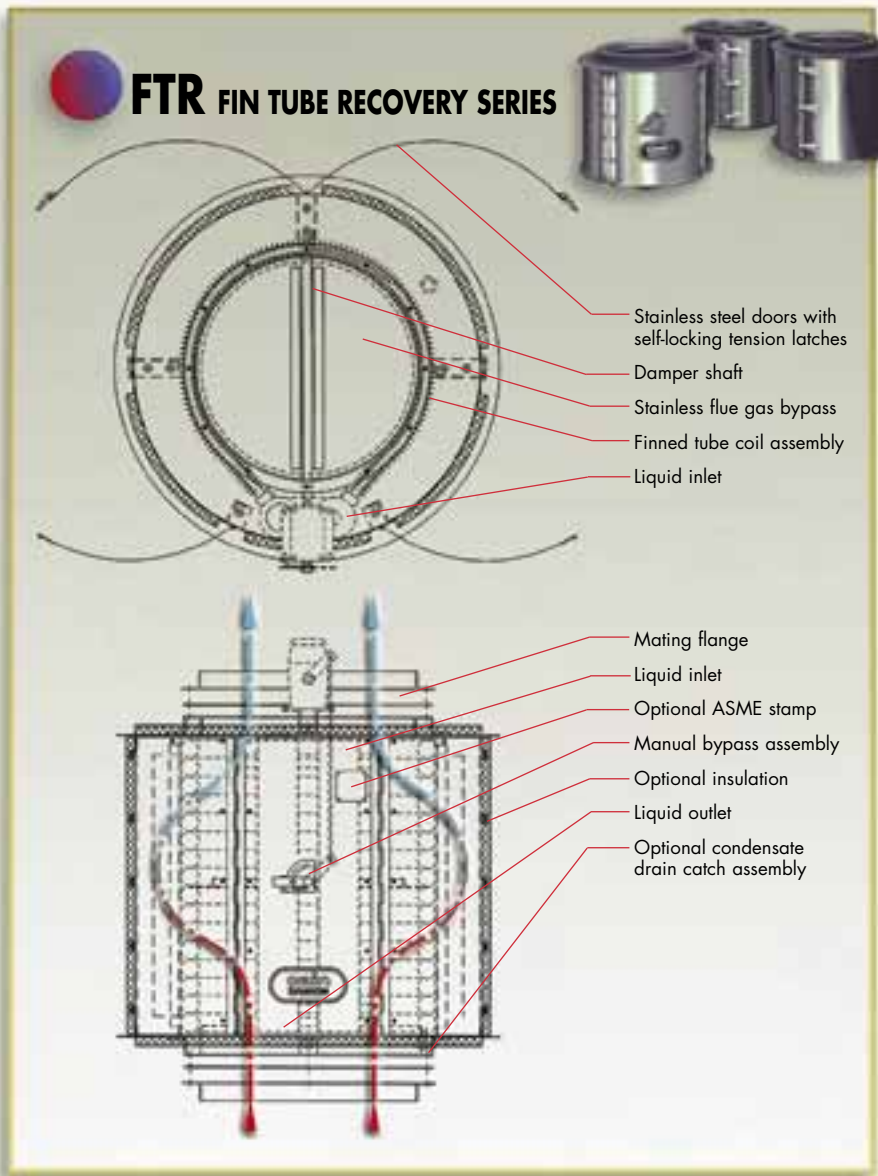
- Capacity: 100 - 30,000 SCFM
- Entering gas temps: 325°F to 1,400°F
- Heat sink types: Boiler feedwater, makeup water, process water, hot water return, potable water, thermal fluids, run-around systems



HOSPITAL, Flint, Michigan
 (2) FTR-160E28SSS each recovering Btu from (1) 435 BHP steam boiler; Reducing 450°F @ 4251 SCFM to 279°F; Raising 30 gpm boiler makeup water entering at 50°F to 109°F.

THE CAIN ADVANTAGE

Cain Industries can provide you with the ultimate heat recovery solution: lightweight design, smaller, more efficient, more cost effective. Each unit is engineered to maximize your heat recovery and thus your return on investment. Size options, finned tube configurations, and finned tube material options allow Cain engineers to specify economizers that will work in applications that have size and access limitations. This flexibility makes Cain the best choice for retrofit installations as well as new construction.



The large selection of standard FTR models makes it possible to provide a system that accommodates overall diameter and height constraint considerations.



Quick release tension latches provide easy access to the finned tube core without the use of tools.



FTR (left) shown with optional sootblower and pneumatic drive cylinder - recommended when sulphur content is high and/or combustion efficiency is poor. Fouled finned tubing can reduce heat recovery by up to 50%. The sootblower is also applied when it is not cost-effective to open inspection doors and clean the exchanger by other means. The timed automatic sootblower system will continually keep the heating surface at a high performance level and reduce the day-to-day operator expense and facility down time.



Stainless steel hinged access doors allow for rapid and easy inspection and maintenance of the FTR, which in turn lowers your operating costs.