

R E L I A B I L I T Y B Y D E S I G N



**Compact
Economical
Water-Cooled
Aftercooler
Delivers Superior
Performance in a
Leak-Free Design.**

New Model SFT Fixed Bundle Aftercoolers from R.P. Adams

The R.P. Adams Model SFT Fixed Bundle Aftercooler provides effective cooling of compressed air or gas while minimizing your capital equipment cost. More efficient cooling results in less moisture downstream protecting sensitive process equipment, instrumentation and pneumatic devices.

To reduce costs, fixed bundle units have the tubesheet welded to the shell, eliminating the need for a packing gland and packed joints which are found on removable bundle units. This design guarantees the fluids will not leak to the surrounding environment.

R.P. Adams Model SFT Fixed Bundle Aftercoolers offer maximum heat transfer surface for a given shell and tube size. Units have air or gas in the tubes and the coolant in the shell. Tube side is easily accessible for inspection and for mechanical or chemical cleaning. The shell side may be cleaned by back flushing or chemical means.

Standard units have a design pressure of 150 PSIG. Custom units are available with design pressures up to 900 PSIG on the tube side and 300 PSIG on the shell side. The design temperature of this aftercooler is 350°F.

B E N E F I T S A T A G L A N C E

- Water-cooled for consistent process control.
- Fixed bundle configuration minimizes your capital equipment cost.
- Compact design keeps the installed space to a minimum.
- 3/8" bare straight tubes allow for easy tube-side cleaning.
- No chance of external fluid leakage.
- Prevents cross contamination between the two fluids. No packing is needed to isolate fluids.
- Designed and certified to ASME Code, Section VIII, Division 1.
- Meets Tubular Equipment Manufacturers Association (TEMA) Class C requirements.
- Designed and manufactured by R.P. Adams, the standard of the aftercooler industry for more than 60 years.

F E A T U R E S

Smooth bare tubes provide a trouble-free operation.

The smooth surface of a 3/8" diameter bare tube extends the service life and minimizes maintenance. By contrast, inner surface designs featuring fins or tube inserts that project into the flow stream can promote rapid corrosion and fouling that lead to higher pressure drops across the unit.

Standard units are equipped with inhibited admiralty metal tubes for enhanced corrosion protection. Other available tube materials include copper, 90/10 cupro-nickel, 304 ss, 316 ss, and carbon steel.

Protection against cross contamination.

The SFT Fixed Bundle design prevents cross contamination of the two fluids because it does not require packing rings to seal the rear tubesheet to the shell.

Corrosion-resistant baffles.

Non-metallic baffles provide generous tube support while eliminating the potential for tube wear caused by pulsation or vibration.

Cyclone separators available.

R.P. Adams can also supply the Cyclone Separator to effectively remove up to 99% of the condensed liquid present in the air stream.

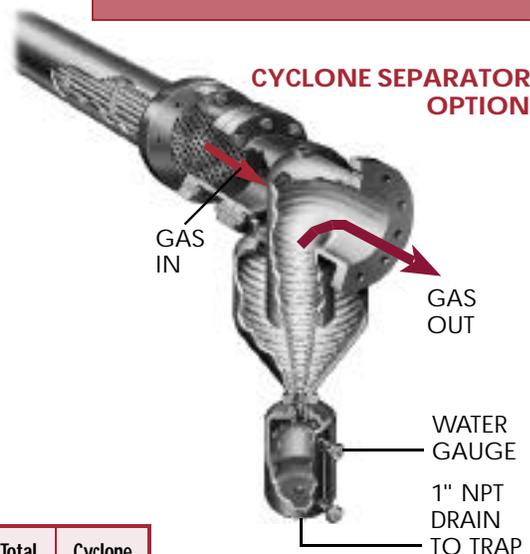
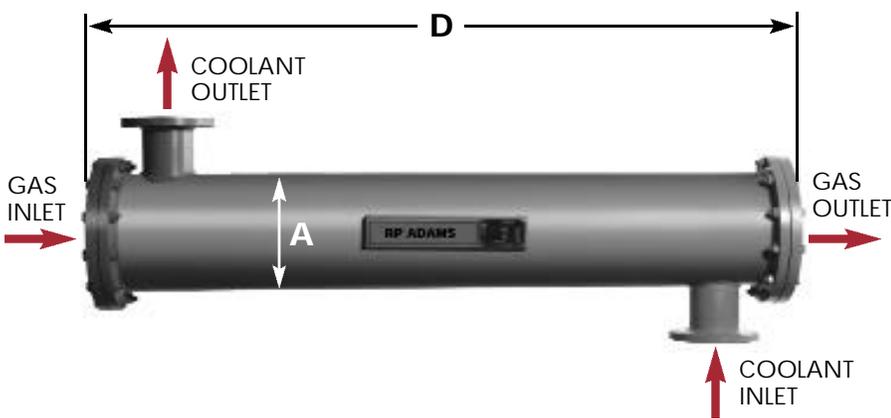
A P P L I C A T I O N S

- Compressor air aftercoolers
- Nitrogen or oxygen coolers
- Trim coolers
- Compressed air or gas inter-coolers
- Coolers for regenerative dryers
- For flammable or toxic gasses and liquids

STANDARD MATERIALS OF CONSTRUCTION

Shell Carbon Steel
 Tubes Inhibited Admiralty
 Tubesheets . . . Carbon Steel welded to the shell
 Baffles Non-Metallic

Note: Other materials available upon request.



MODEL	Air Capacity in SCFM						A Shell Diameter (inch)	D Shell Length (inch)	Gas Inlet Conn. (inch)**	Gas Outlet Conn. (inch)**	Water Inlet/Outlet Conn. (inch)	Total Shipping Weight (lbs)	Cyclone Separator (inch)*
	For operating pressures between 100 to 150 PSIG												
	180°F		250°F		350°F								
SFT-24	480	621	400	621	340	520	4 1/2	73 7/8	4	4	1 1/2 Δ	185	4
SFT-33	570	820	500	785	430	640	5 1/8	73 7/8	5	5	1 1/2 Δ	240	4
SFT-43	730	1,080	624	993	549	835	5 9/16	73 7/8	5	5	1 1/2 Δ	295	4
SFT-64	1,060	1,620	960	1,620	840	1,280	6 5/8	74 3/8	6	6	2 Δ	365	5
SFT-71	1,200	1,790	1,080	1,790	945	1,430	7	74 1/4	6	6	2 Δ	385	5
SFT-117	2,050	2,950	1,840	2,950	1,595	2,400	8 5/8	74 5/8	8	8	2 1/2 Δ	510	6
SFT-149	2,680	3,750	2,390	3,750	2,065	3,100	9 5/8	74 7/8	8	8	3 Δ	620	6
SFT-184	3,320	4,630	2,960	4,630	2,560	3,850	10 3/4	75 1/8	10	10	4 *	805	6
SFT-280	5,035	7,030	4,500	7,030	3,880	5,875	12 3/4	75	12	12	5 *	1,190	8
SFT-343	6,210	8,630	5,530	8,630	4,780	7,200	14	75 1/8	14	14	5 *	1,380	10
SFT-453	8,450	11,380	7,510	11,380	6,435	9,700	16	75 1/2	16	16	6 *	1,660	10

**Slip on flange

* ANSI flange

Δ = NPT



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