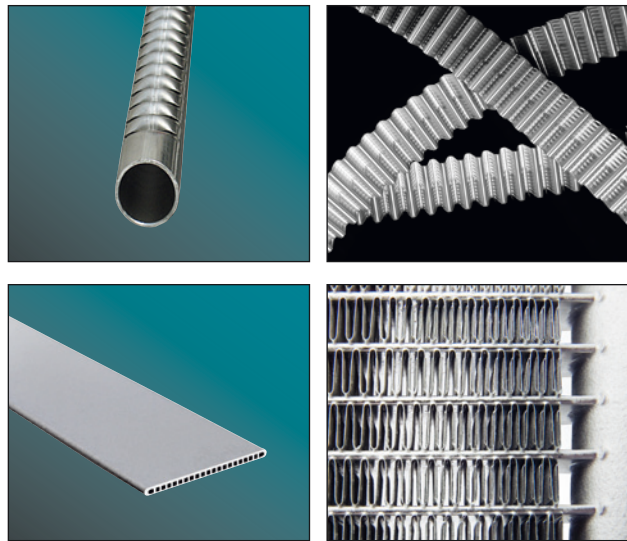


Sapa Heat Transfer

High Strength & Corrosion Resistant System – Condenser

Controlled atmosphere brazing

The engineered solution for HVAC&R condenser applications leverages Sapa Heat Transfer's 35 years of experience developing advanced alloys for all-aluminium heat exchanger systems. The condenser solution was engineered to provide for improved corrosion resistance in a variety of environments – including coastal, industrial and urban locations. The solution combines the Long Life Nexcore AA3110 multiport tube alloy, with the FA6815 high strength, sag resistant clad fin stock alloy and the FA7905 high strength, heat-treatable low Mg alloy for manifold applications. The FA7905 manifold products are available as welded round tube and/or other shapes from Sapa Heat Transfer



Heat Exchanger Applications

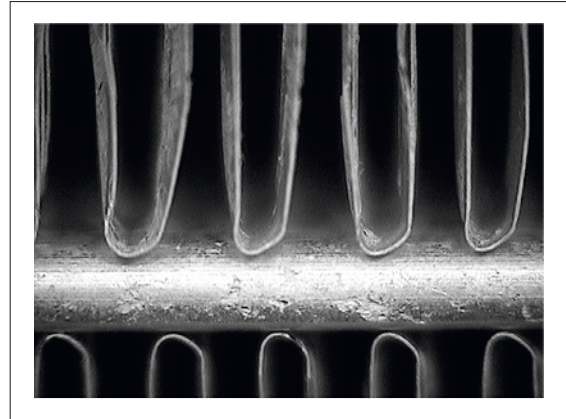
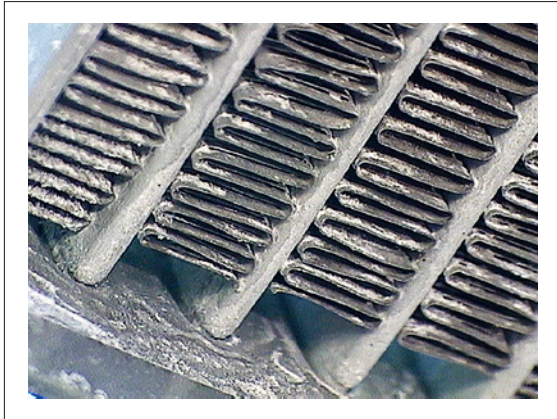
- Residential HVAC
- Commercial HVAC
- Transportation HVAC&R
- Commercial Refrigeration
- Industrial Refrigeration

Engineered Solution								
Product	Alloy		As-Produced			Post-Braze (Simulated Cycle – 600°C, 3 minutes)		
	FA/AA	Temper	R _m (MPa)	R _{p0.2} (MPa)	A ₅₀ (%)	R _m (MPa)	R _{p0.2} (MPa)	E _{corr} (mV)
Nexcore MPE Tube	AA3110	H112	85	51	30	80	34	-727
Clad Fin	FA6815	H14SR	180–220	>160	>0.5	130	50	-800
Manifold Alloy	FA7905	O	115–145	>40	>20	160–165*	55–60*	-710
		H24	180–230	>150	>15	170–175**	60–65**	

* 7 Days Natural Ageing, ** 14 Days Natural Ageing

Sapa Solution after 56 Days – X-SACT

(X-SACT: Sapa Developed Cyclic Corrosion Test)

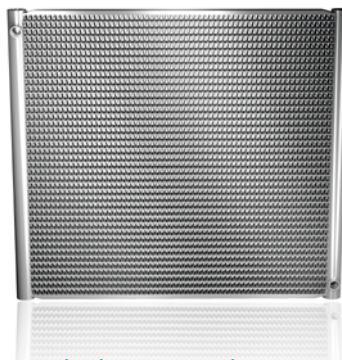


Solution benefits

- Improves the high efficiency life cycle of heat exchangers – no tube-to-fin separation or severe fin corrosion.
- Provides optimum heat exchanger core performance – engineered galvanic corrosion.
- Offers compatibility with R410A and other high-pressure refrigerant systems.

Sapa Heat Transfer advantage

- Global focus on Heat Exchanger applications.
- Global manufacturing presence, providing a complete range of products targeting all components required for aluminium heat exchangers.
- Global technical expertise and support teams, with state-of-the-art application centres in Europe, Asia and the Americas.



Sapa Heat Transfer's knowledge, experience, and capabilities can help address your performance, reliability, productivity, and cost-effectiveness requirements for all aspects of your heat exchanger products and/or manufacturing processes.

Americas

Phone: +1 (502) 962 5514
Fax: +1 (502) 962 5515
E-mail: americas.sht@sapagroup.com

Europe & Africa

Phone: +46 122 83800
Fax: +46 122 19732
E-mail: europe.sht@sapagroup.com

Asia

Phone: +86 21 5954 1111
Fax: +86 21 5954 3111
E-mail: asia.sht@sapagroup.com