

Coil Process Fluid Compatibility

Marley, Recold and SGS have several condenser and fluid cooler products that utilize a wide range of process fluids. Refrigerants have unique chemical properties that react differently with several coil materials. For this reason, process fluids are a key consideration in selecting a coil for a fluid cooler or condenser. Table 1 lists the compatibility between common process fluids used in commercial and industrial applications along with the three coil materials offered in Marley, Recold and SGS products.

Table 1: Coil-Process Fluid Comaptibility

Process Fluid	Coil Material		
	Copper (MHF, LW & LC Only)	Stainless Steel (304, 316)	Galvanized (HDG)
Water	+	+	+
Water/Glycol	+	+	+
R-717 (Ammonia)	-	+	+
R-744 (Carbon Dioxide)	-	+	-
HFCs	+	+	+

Water and glycol mixture applications are compatible with each coil material assuming proper water quality guidelines are met. Copper coils are not available on ammonia systems as ammonia is highly reactive with copper.

Key Takeaways

- Coil material/process fluid compatibility is critical
- Water quality guidelines should be followed
- Ammonia should only be used with Stainless Steel & HDG Coils

SPX COOLING TECH, LLC

7401 WEST 129 STREET
 OVERLAND PARK, KS 66213 USA
 913 664 7400 | spxcooling@spx.com
 spxcooling.com

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