

cuprofin® - C

Inner-grooved seamless drawn copper tubes

Application

Wieland cuprofin-C tubes are highly efficient heat transfer tubes for tube-side condensation. Wieland cuprofin-C2 light is a new weight-optimised tube with the same performance; the new

cuprofin-C3 tubes feature a significantly enhanced performance level. The grooves on the inside of the tubes are designed for optimised heat transfer for a number of refrigerants, allowing the development of more compact heat exchangers.

Form of delivery

Level-wound coils			
Material	Copper Cu - DHP	Copper C 12200	Copper SF - Cu
Standard	EN 12735-2*	ASTM SB 359	VdTÜV 420/6
Temper	annealed Y040	light annealed O50	annealed F22

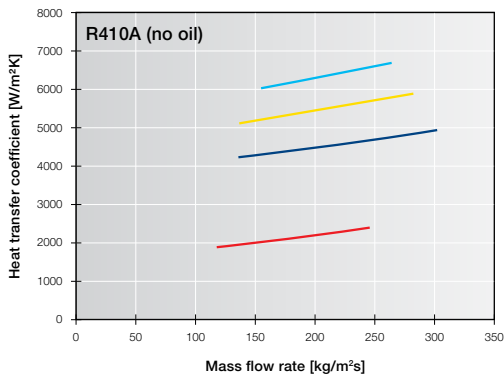
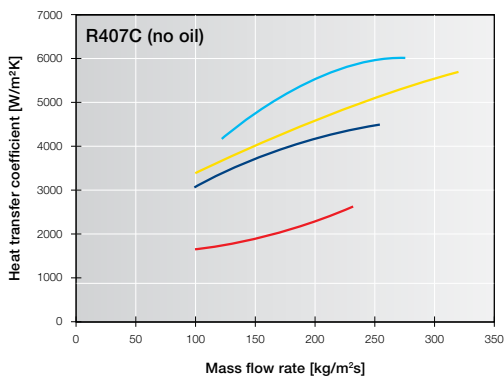
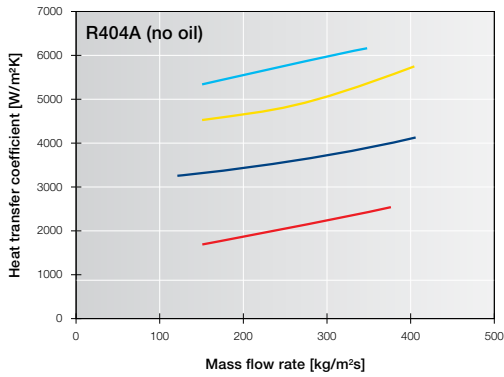
*Conforms to the Pressure Equipment Directive PED 97/23/EC.

cuprofin-C2 tubes							Tube code
d_1	s_k	h	n	α			
mm	mm	mm	-	°			
7.94	0.26	0.20	50	30		C2AD-79426/50/30/20	
9.52	0.30	0.20	62	30		C2AD-95230/62/30/20	
9.52	0.34	0.20	62	30		C2AD-95234/62/30/20	
12.00	0.32	0.25	70	30		C2LD-12032/70/30/25*	
12.00	0.32	0.25	70	30		C2AD-12032/70/30/25	
12.00	0.35	0.25	70	30		C2AD-12035/70/30/25	
12.70	0.36	0.25	70	30		C2AD-12736/70/30/25	
12.70	0.40	0.25	70	30		C2AD-12740/70/30/25	
15.87	0.40	0.30	75	30		C2AD-15840/75/30/30	
cuprofin-C3 tubes							
7.00	0.25	0.24	55	27		C3AD-70025/55/27/24	
8.00	0.26	0.22	65	35		C3AD-80026/65/35/22	
9.52	0.30	0.25	65	25		C3AD-95230/65/25/25	

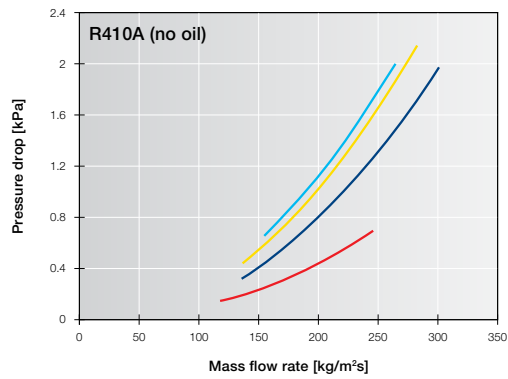
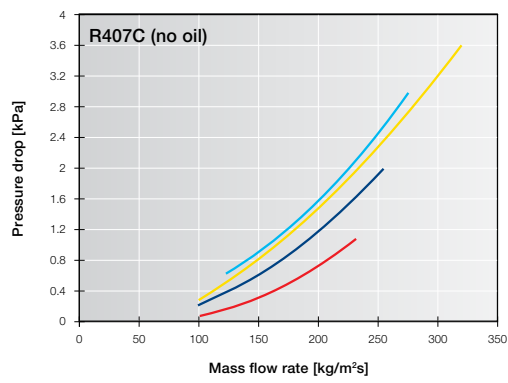
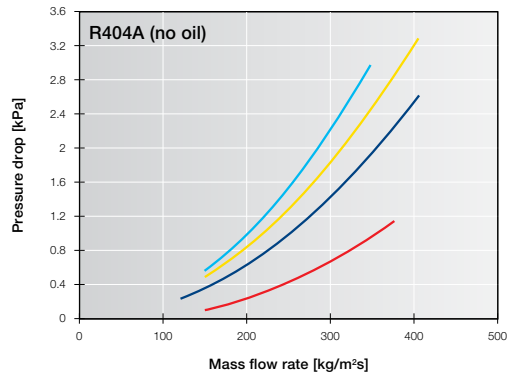
*C2LD: new weight-optimised tube; other types upon request.

CONDENSATION

Heat transfer performance



Pressure drop



Test conditions Condensation – 9.52 mm tubes
 $t_c = 35\text{ °C}$
 subcooling ~2 K, inlet superheat ~5 K
 tube length 2 m

— cuprofin-C3
 — cuprofin-C2
 — cuprofin-S2
 — plain tube

Tube Type	Standard	E	EDX	This leaflet C	G	L10
Tube Application	evaporation condensation	evaporation	evaporation	condensation	single phase heat transfer	evaporation condensation
Process Application	fin coils shell & tube	fin coils	shell and tube evaporators	fin coils	highly viscous liquids	seawater
Material	copper	copper	copper	copper	copper	cupro nickel

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