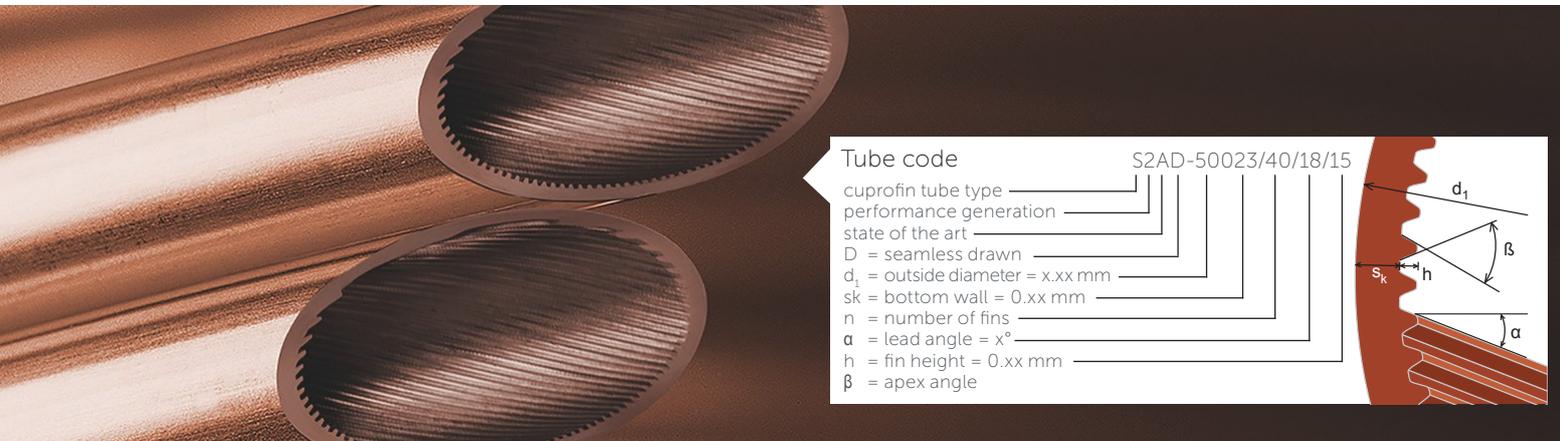


cuprofin[®]-Standard Pattern

Inner-grooved seamless drawn copper tubes



Application

Wieland cuprofin-Standard tubes are efficient heat transfer tubes that are universally usable for both condensation and dry expansion evaporation in all kinds of ACR applications.

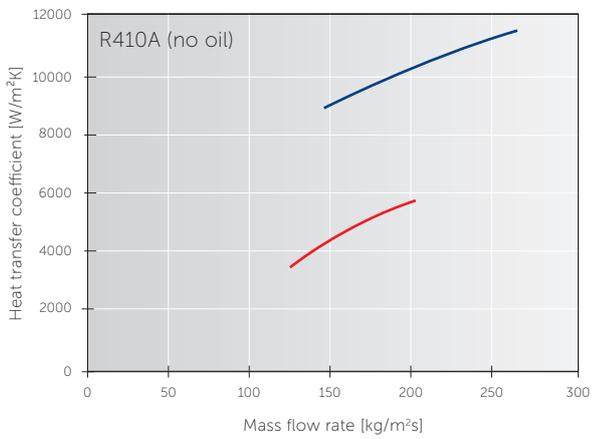
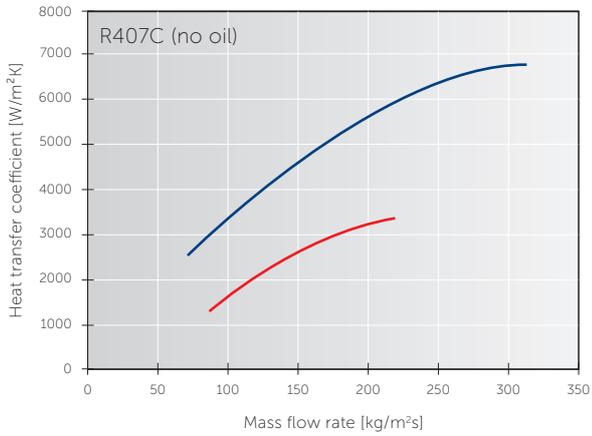
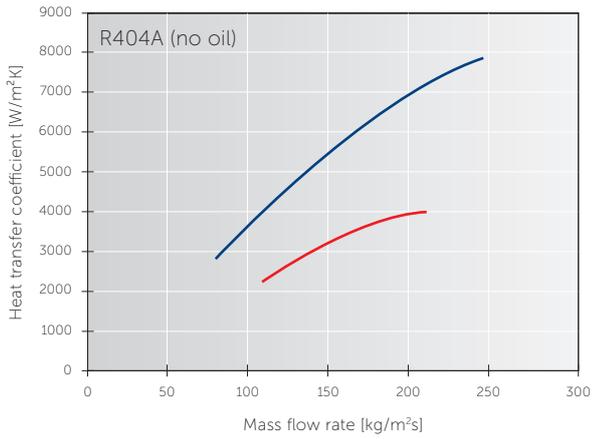
The product range has been extended and new light weight S2LD structures have been added to the portfolio.

d_1		s_k	h	n	α	Weight approx. g/m		Tube code
mm	inch					LWC	straigth length	
5.00		0.20	0.15	40	18	33	–	S2AD-50020/40/18/15
7.00		0.25	0.15	50	18	55	–	S2AD-70025/50/18/15
7.00		0.25	0.18	50	18	57	–	S2AD-70025/50/18/18
7.94	5/16	0.25	0.18	50	18	64	–	S2AD-79425/50/18/18
7.94	5/16	0.25	0.20	50	18	65	–	S2AD-79425/50/18/20
9.52	3/8	0.28	0.15	60	18	81	–	S2AD-95228/60/18/15
9.52	3/8	0.28	0.20	60	18	87	–	S2AD-95228/60/18/20
9.52	3/8	0.28	0.20	56	18	85	–	S2LD-95228/56/18/20
9.52	3/8	0.45	0.20	60	18	129	–	S2AD-95245/60/18/20
12.00		0.32	0.23	70	18	126	–	S2AD-12032/70/18/23
12.00		0.32	0.25	70	18	129	–	S2AD-12032/70/18/25
12.00		0.32	0.18	90	16	121	–	S2LD-12032/90/16/18
12.70	1/2	0.32	0.25	70	18	135	–	S2AD-12732/70/18/25
12.70	1/2	0.32	0.25	66	18	132	–	S2LD-12732/66/18/25
12.70	1/2	0.63	0.25	70	18	237	–	S2AD-12763/70/18/25
15.00		0.38	0.25	75	18	183	–	S2AD-15038/75/18/25
15.00		0.38	0.30	75	18	192	–	S2AD-15038/75/18/30
15.87	5/8	0.38	0.30	75	18	200	–	S2AD-15838/75/18/30
15.87	5/8	0.63	0.30	75	18	307	319	S2AD-15863/75/18/30

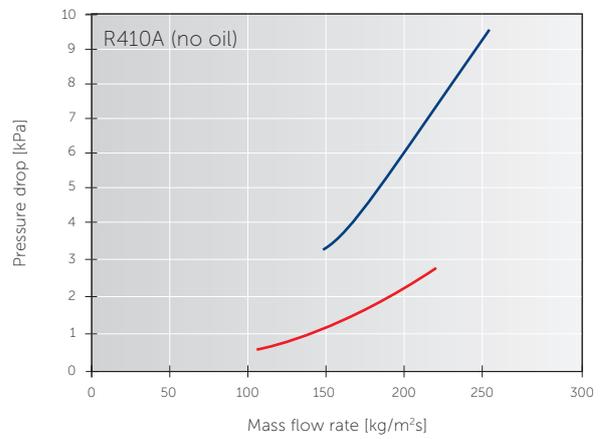
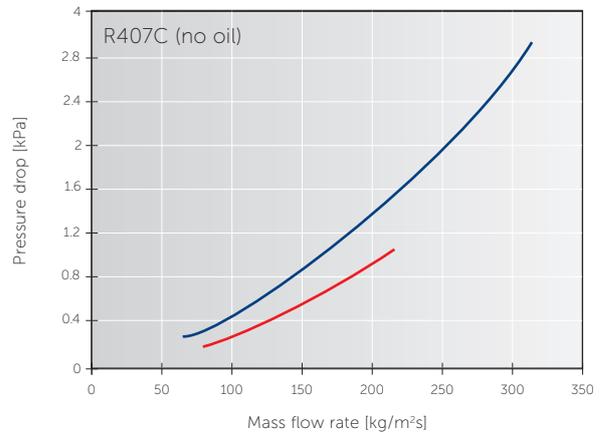
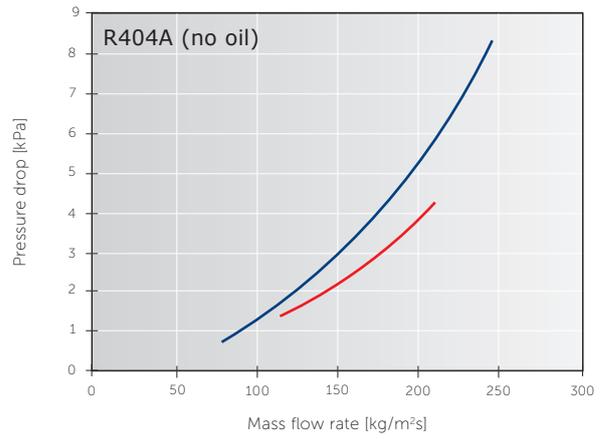
Other types and wall thicknesses are available upon request.

Evaporation – performance data, single tube tests

Heat transfer performance



Pressure drop



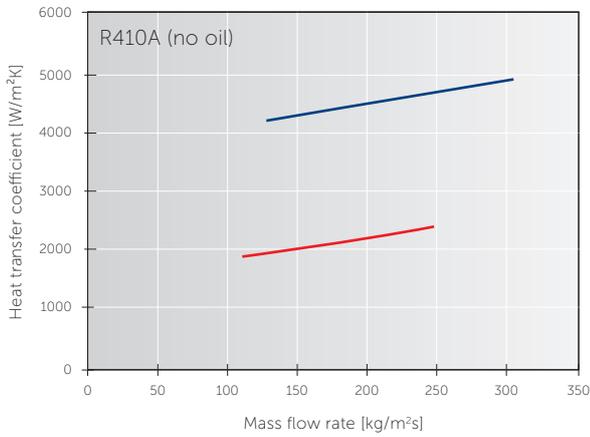
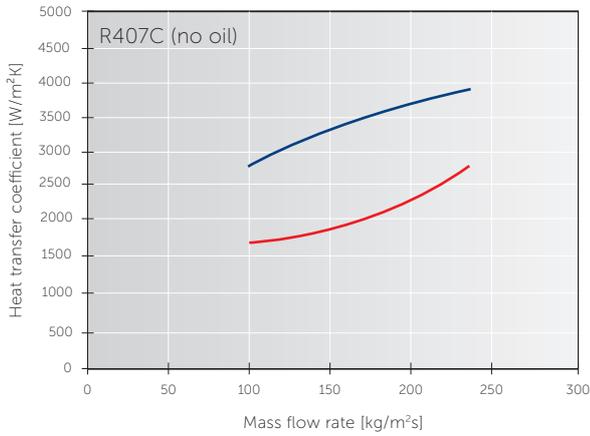
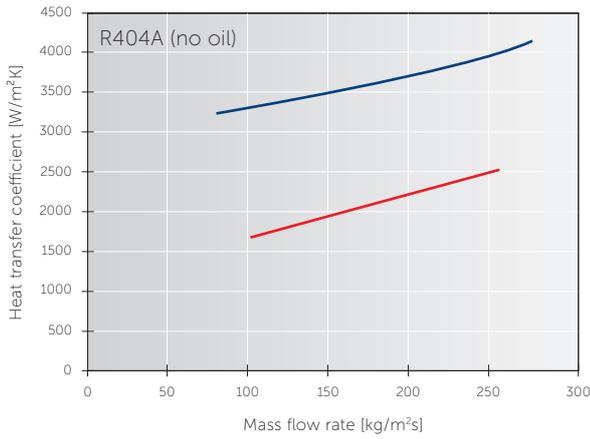
Test conditions

Evaporation – 9.52 mm tubes
 $t_c = 0\text{ °C}$
 superheat ~5 K, inlet quality 20 %
 tube length 2 m

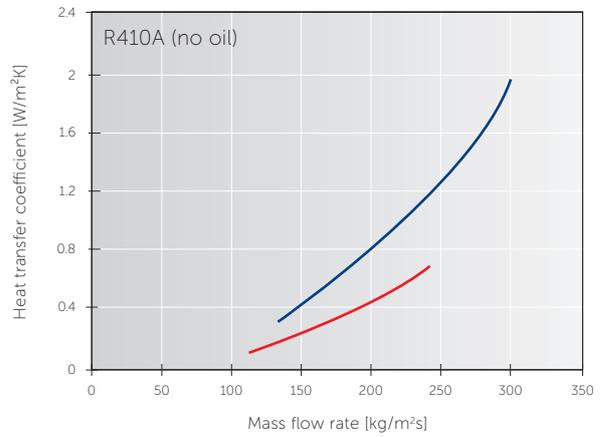
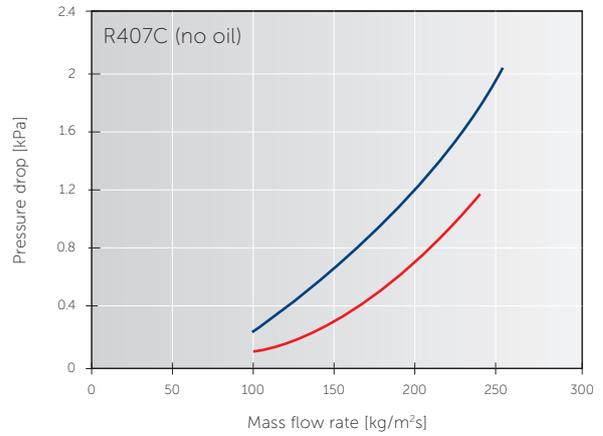
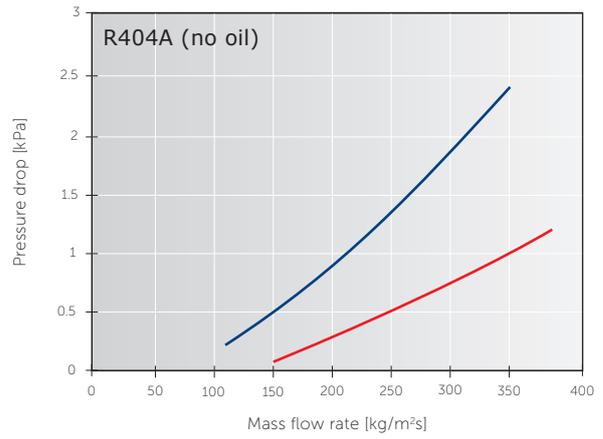
— cuprofin-standard
 — plain tube

Condensation – performance data, single tube tests

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-standard
 — plain tube

Form of delivery

Level-wound coils			
Material	Copper Cu-DHP	Copper C12200	Copper SF-Cu
Standard	EN 12735-2*	ASTM B 359	VdTÜV 420/6*
Temper	annealed Y040	light annealed O50	annealed F22
Straight lengths			
Material	Copper Cu-DHP	Copper C 12200	Copper SF-Cu
Standard	EN 12735-1*	ASTM SB 359	VdTÜV 420/7*
Temper	hard R 290	hard dawn H80	hard F 36

*Conforms to the Pressure Equipment Directive PED 2014/68/EU.

	This leaflet					
Tube Type	Standard	E	EDX	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 evaporation	fin coils	highly viscous liquids	seawater
Material	copper	copper	copper	copper	copper	cupro nickel

Wieland-Werke AG | Graf-Arco-Straße 36 | 89079 Ulm | Germany
 info@wieland.com | wieland.com

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