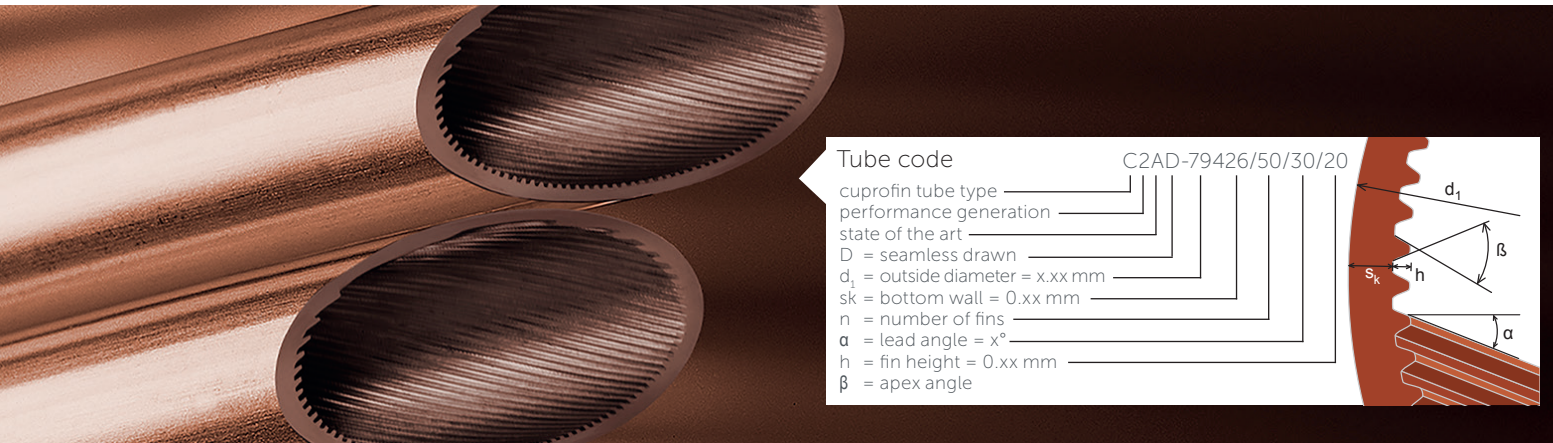


## cuprofin<sup>®</sup>-C

Inner-grooved seamless drawn copper tubes



### Application

Wieland cuprofin-C tubes are highly efficient heat transfer tubes optimized for in-tube condensation. The product range of both cuprofin-C2 and high performance generation cuprofin-C3 has been extended.

New designs for smaller diameter tubes have been developed to facilitate the design of more efficient and compact heat exchangers.

### Form of delivery

#### Level-wound coils

Material	Copper Cu-DHP	Copper C1220	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 2014/68/EU.

#### cuprofin-C2 tubes

d <sub>1</sub>		s <sub>1</sub>	h	n	α	Weight approx. g/m	Tube code
mm	inch	mm	mm	–	°		
7.00		0.23	0.12	55	27	48	C2LD-70023/55/27/12
9.52	3/8	0.28	0.20	62	30	86	C2AD-95228/62/30/20
9.52	3/8	0.28	0.20	62	30	84	C2LD-95228/62/30/20
12.00		0.32	0.25	70	30	126	C2AD-12032/70/30/25
12.00		0.32	0.25	70	30	121	C2LD-12032/70/30/25
12.70	1/2	0.36	0.25	70	30	146	C2AD-12736/70/30/25
15.87	5/8	0.40	0.30	75	30	205	C2AD-15840/75/30/30

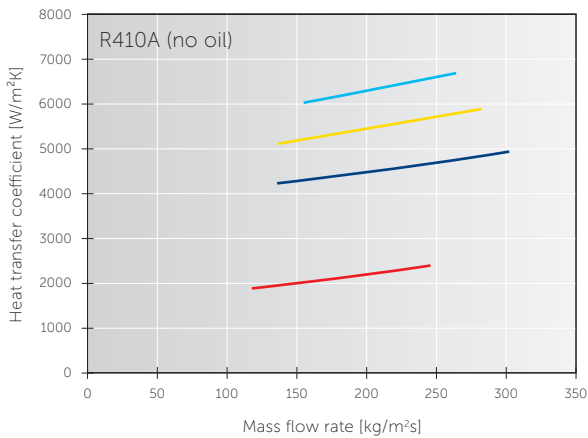
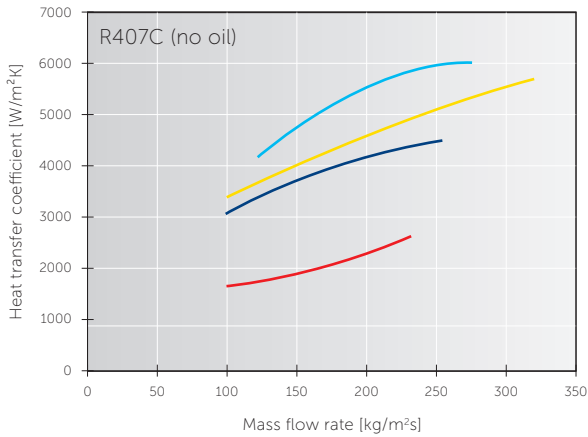
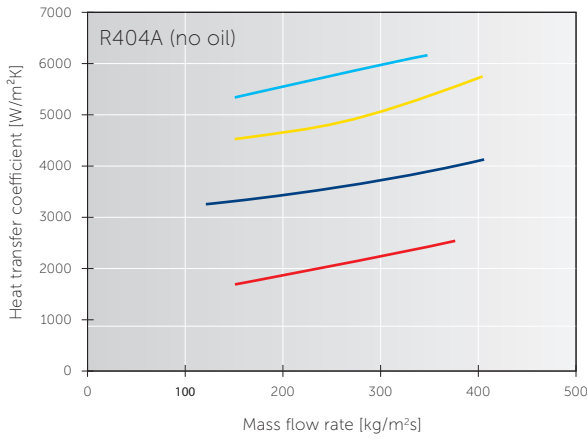
#### cuprofin-C3 tubes

5.00		0.20	0.15	54	30	32	C3CD-50020/54/30/15
7.00		0.25	0.20	66	25	59	C3AD-70025/66/25/20
7.94	5/16	0.26	0.22	65	35	69	C3AD-79426/65/35/22
9.52	3/8	0.28	0.25	65	25	91	C3AD-95230/65/25/25
9.52	3/8	0.28	0.20	85	30	89	C3LD-95228/85/30/20

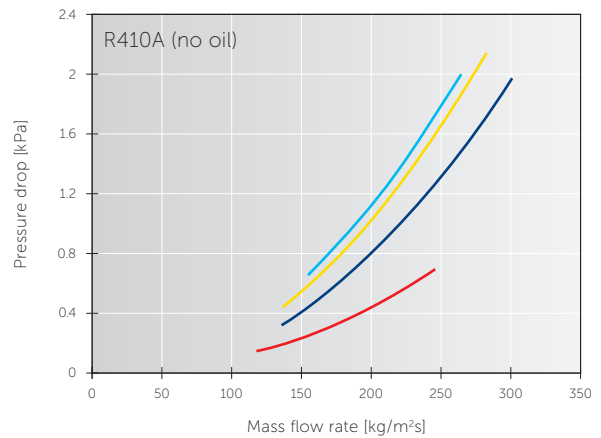
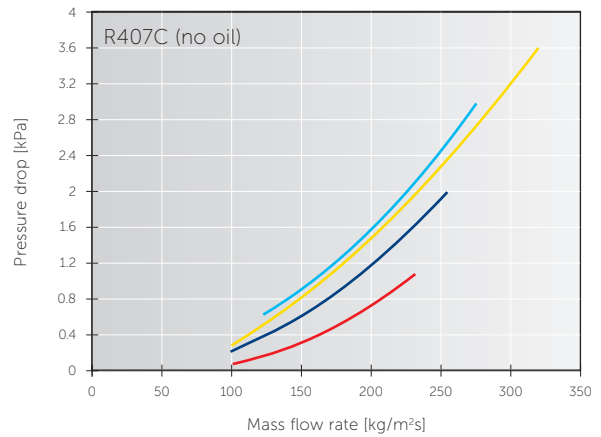
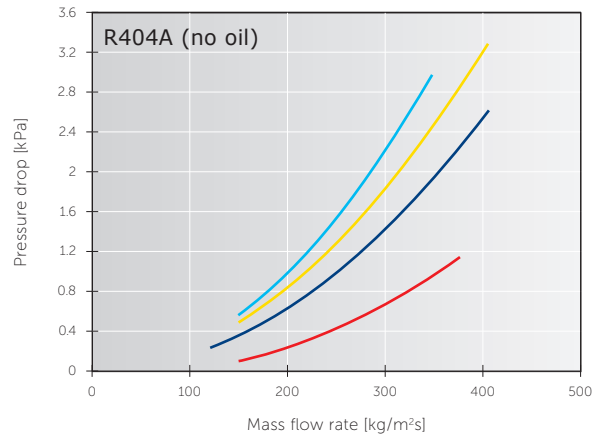
Other types and wall thicknesses are available upon request.

# 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 evaporation	fin coils	highly viscous liquids	seawater
Material	copper	copper	copper	copper	copper	cupro nickel