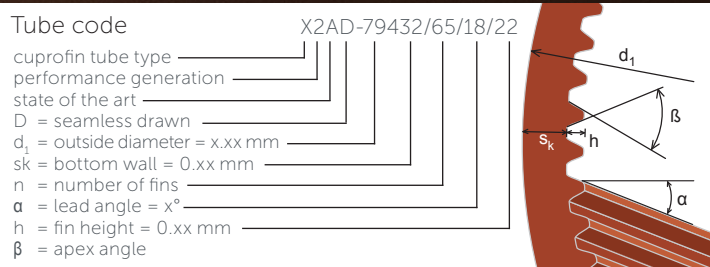
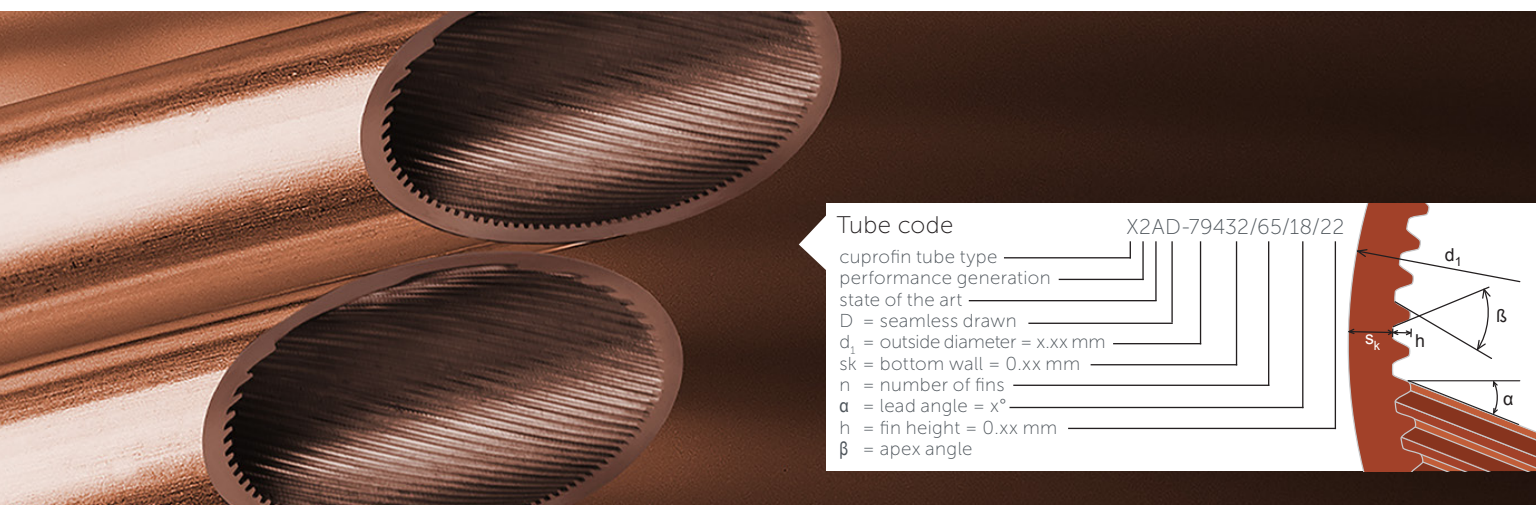


## cuprofin<sup>®</sup>-EDX

Inner-grooved seamless drawn copper tubes



### Application

Wieland cuprofin-EDX tubes are highly efficient heat transfer tubes optimized for shell-and-tube dry expansion evaporators. The product range has been extended by new cuprofin-X2 and -X3 structures. 7 mm cuprofin-X2 tubes have been added to the portfolio to enable the

design of more compact heat exchangers. Also, Wieland offers a new high performance 7.94 mm cuprofin-X3 tube that facilitates the development of much more efficient and compact shell-and-tube evaporators.

### 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

#### 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 drawn H80	hard F 36

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

#### cuprofin-X2 tubes

$d_1$		$s_{kw}$	h	n	$\alpha$	Weight approx. g/m		Tube code
mm	inch	mm	mm	–	°	LWC	Straight lengths	
7.00	–	0.35	0.20	60	18	77	–	X2CD-70035/60/18/20
7.94	5/16	0.35	0.15	70	18	83	–	X2CD-79435/70/18/15
9.52	3/8	0.40	0.25	60	18	120	–	X2AD-95240/60/18/25
9.52	3/8	0.40	0.25	60	18	–	123	X2CD-95240/60/18/25
9.52	3/8	0.40	0.20	74	19	116	–	X2LD-95240/74/19/20
9.52	3/8	0.45	0.25	60	18	132	–	X2AD-95245/60/18/25
9.52	3/8	0.45	0.25	60	18	–	135	X2CD-95245/60/18/25
9.52	3/8	0.45	0.20	74	19	128	–	X2LD-95245/74/19/25

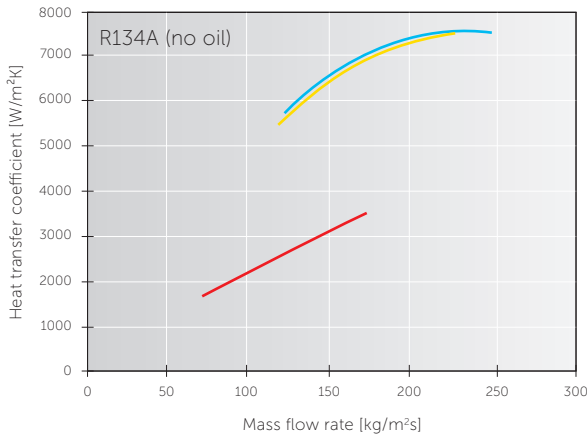
#### cuprofin-X3 tubes

7.94	5/16	0.32	0.15	85	11	78	–	X3CD-79432/85/11/15
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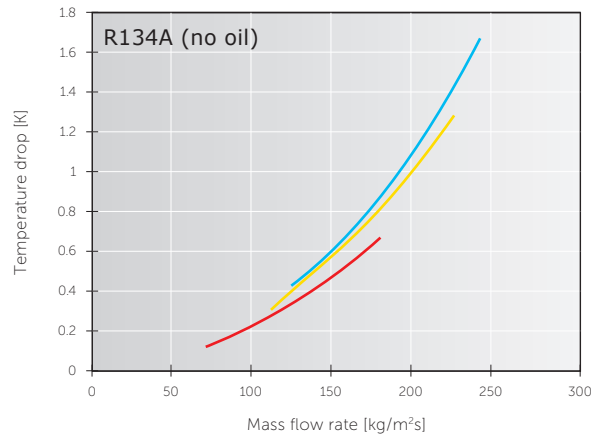
Other types and wall thicknesses are available upon request.

# Evaporation

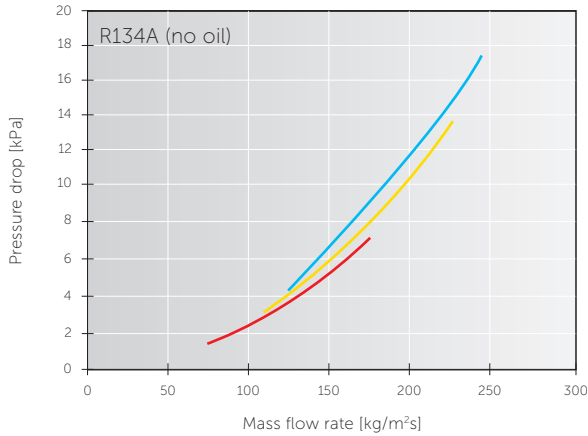
## Heat transfer performance



## Temperatur drop related tp pressure drop



## Pressure drop



### Test conditions

Evaporation – 9.52 mm tubes  
 $t_0 = 0 \text{ }^\circ\text{C}$   
 superheat ~5 K, inlet quality 20 %  
 tube length 2 m

- cuprofin-EDX light
- cuprofin-EDX
- plain tube

Tube Type	Standard	E	This leaflet			
			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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