

Wieland cuprofin®-EDX tube Inner-grooved tube for shell and tube dry expansion evaporators

cuprofin®-EDX tubes are highly efficient heat transfer tubes for shell and tube dry expansion evaporators. cuprofin®-EDX light is a new weight optimised tube designed for less pressure drop

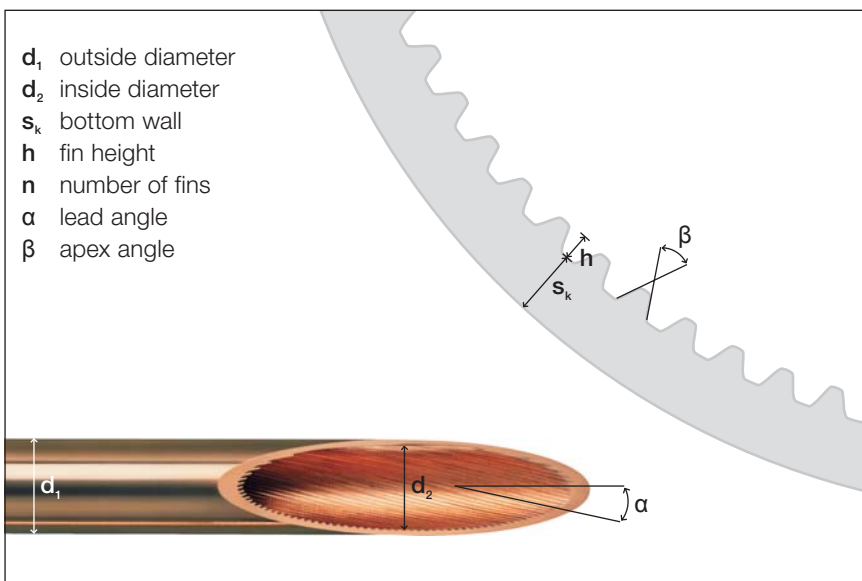
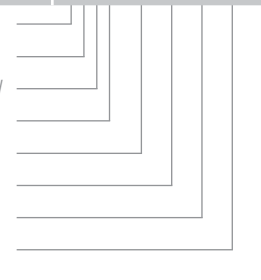
with the same performance level. The grooves on the inside of the tubes are designed for optimised heat transfer for a number of refrigerants, allowing the development of more compact heat

exchangers. Wieland offers application engineered computer software for the design of dry expansion evaporators using cuprofin®-EDX.

	d_1		d_2	s_k	h	n	α	Delivery format		Tube No.
	mm	inch						LWC	Straight lengths	
	7.94	5/16"	6.86	0.32	0.22	65	18	•	•	X2AD-79432/65/18/22
	9.52	3/8"	8.22	0.40	0.25	60	18	•	–	X2AD-95240/60/18/25
			8.22	0.40	0.25	60	18	–	•	X2CD-95240/60/18/25
*	9.52	3/8"	8.32	0.40	0.20	74	19	•	–	X2LD-95240/74/19/20
			8.22	0.45	0.20	74	19	•	–	X2LD-95245/74/19/20
	9.52	3/8"	8.12	0.45	0.25	60	18	•	–	X2AD-95245/60/18/25
			8.12	0.45	0.25	60	18	–	•	X2CD-95245/60/18/25

* EDX light: new weight optimised tube
Other types upon request.

cuprofin tube type
performance generation
A = state of the art, L = light, C = customized
D = seamless drawn
 d_1 = outside diameter = x.xx mm
 s_k = bottom wall = 0.xx mm
 n = number of fins
 α = lead angle = x°
 h = fin height = 0.xx mm



d_1 outside diameter
 d_2 inside diameter
 s_k bottom wall
 h fin height
 n number of fins
 α lead angle
 β apex angle

Characteristics of the Wieland cuprofin®-EDX tube

Material

Cu-DHP (EN 12735-2*)
CW024A (EN 12735-2*)
C 12200 (ASTM B75)

Temper

soft:
light annealed (EN 12735-2*)
light annealed O50 (ASTM B75)
annealed F22 (VdTÜV 420/6*)

hard:
hard drawn H80 (ASTM B75)
drawn F36 (VdTÜV 420/7*)

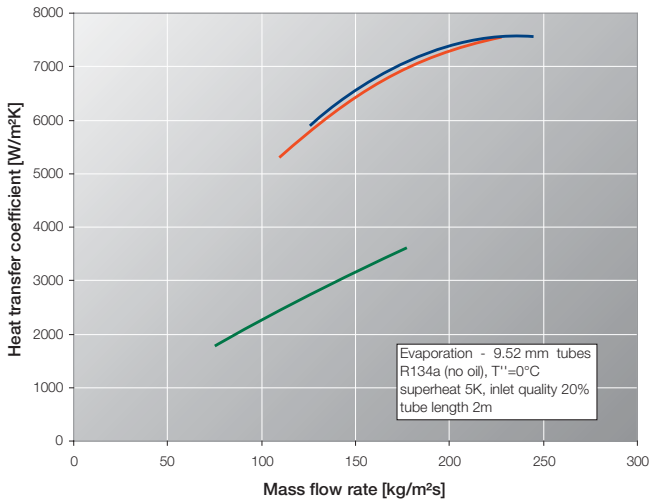
Delivery format

- LWC
- straight lengths

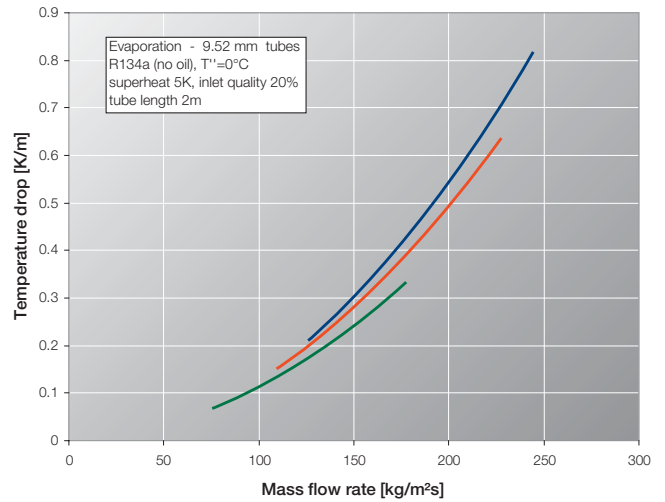
* Conforms to the Pressure Equipment Directive PED 97/23/EC

Evaporation

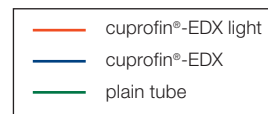
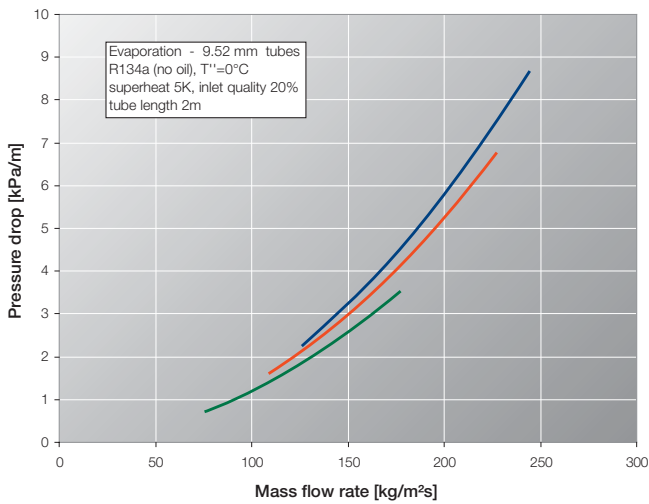
Heat transfer performance



Temperature drop related to pressure drop



Pressure drop



cuprofin® tubes at a glance

	This leaflet				
cuprofin® Type	Standard	E	EDX	C	G
Tube Application	all-round	evaporation	evaporation	condensation	single phase heat transfer
Process Application	all-round	fin coils	shell and tube evaporators	fin coils	highly viscous liquids

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