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Wieland GEWA-C

Condenser Tubes

Applications

GEWA-C tubes are enhanced condenser tubes for shell-and-tube heat exchangers. They are used in shell-side condensation mainly with safety refrigerants and natural refrigerants, in the air-conditioning and refrigeration industry. Cooling water is circulated on the tube side.

Benefits

- Increased heat transfer on the shell and tube side
- Superior overall heat transfer performance
- Substantial reduction of heat exchanger size and refrigerant charge
- Significant improvement in life cycle energy efficiency

Product Types

Tailor-made for specific applications

- C5 & C6 I For highest performance and efficiency
- C+SL/LW I Weight optimized, drop-in applications
- CLF I For seawater/increased fouling applications
- CPL I For high fouling applications

Tube Material		
Wieland Code	ISO Code	UNS Code/ ASTM-Code
KU1	Cu-DHP	C12200
L10	CuNi10Fe1Mn	C70600
L30	CuNi30Mn1Fe	C71500
O41	P235GH	A179
P18	1.4404 / AISI316L	S31603
Y41	3.7035 / Grade 2	R50400

Other materials on request

Fabrication and Certification

- DIN EN 12452 / EN 10216-2
- VdTÜV 420 / 5 (for use in pressure vessels)
- ASTM B 359 / ASME SB-359 / ASTM A-498

Certification for use in pressure vessels has been obtained with AD-Merkblatt W0 / TRD 100. Certificates 3.1 / 3.2 according to DIN EN 10204.

ThermalX Design Software

Wieland Thermal Solutions provides thermal design software to optimise your enhanced heat exchangers.

More information on our ThermalX online platform on:
https://thermalx.wieland.com

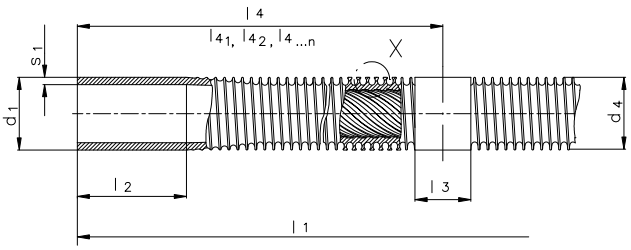
Available in a wide range of materials

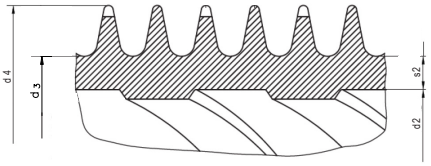
Copper
Copper Nickel
Carbon Steel
Stainless Steel
Titanium

Tube		Material	Plain End		Finned Section				Weight[1)]
			d_1	s_1	d_4	d_3	s_2	d_2	G
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/m)
GEWA-C6H 3/4"	x 0.63	KU1	19.00	1.12	18.85	16.95	0.63	15.69	0.470
GEWA-C5H 3/4"	x 0.63	KU1	19.00	1.10	18.85	16.95	0.63	15.69	0.487
GEWA-C5H 3/4"	x 0.71	KU1	19.00	1.20	18.85	16.95	0.71	15.53	0.516
GEWA-C5H 1"	x 0.63	KU1	25.45	1.16	25.25	23.35	0.63	22.09	0.687
GEWA-C5H 1"	x 0.71	KU1	25.45	1.24	25.25	23.35	0.71	21.93	0.723
GEWA-C+SL 3/4"	x 0.63	KU1	19.00	1.10	18.85	16.95	0.63	15.69	0.467
GEWA-C+SL 3/4"	x 0.71	KU1	19.00	1.16	18.85	16.95	0.71	15.53	0.495
GEWA-C+SL 3/4"	x 0.90	KU1	19.00	1.45	18.85	16.95	0.90	15.15	0.637
GEWA-C+LW 1"	x 0.71	KU1	25.45	1.25	25.25	23.35	0.71	21.93	0.697
GEWA-C+LW 1"	x 0.63	KU1	25.45	1.20	25.25	23.35	0.63	22.09	0.667
GEWA-CLF1 5/8"	x 0.80	KU1	15.88	1.40	15.80	13.90	0.80	12.30	0.505
GEWA-CLF1 5/8"	x 0.80	L10	15.88	1.40	15.80	13.90	0.80	12.30	0.505
GEWA-CLF1 3/4"	x 0.71	KU1	19.00	1.30	18.85	16.95	0.71	15.53	0.591
GEWA-CLF1 3/4"	x 0.90	KU1	19.00	1.55	18.85	16.95	0.90	15.15	0.652
GEWA-CLF2 3/4"	x 0.71	L10	19.00	1.35	18.85	17.15	0.71	15.73	0.596
GEWA-CLF2 3/4"	x 0.71	L30	19.00	1.35	18.85	17.15	0.71	15.73	0.596
GEWA-CLF2 3/4"	x 0.90	L10	19.00	1.55	18.85	17.15	0.90	15.35	0.671
GEWA-CLF2 3/4"	x 0.90	O41	19.00	1.55	18.85	17.15	0.90	15.35	0.596
GEWA-CLF2 3/4"	x 1.00	L30	19.00	1.65	18.85	17.15	1.00	15.15	0.706
GEWA-CLF2 1"	x 0.89	L10	25.45	1.55	25.25	23.55	0.89	21.77	0.934
GEWA-CPL 3/4"	x 0.90	KU1	19.00	1.35	18.85	17.05	0.90	15.25	0.623
GEWA-CPL 3/4"	x 0.90	L10	19.00	1.35	18.85	17.05	0.90	15.25	0.623
GEWA-K 3/4"	x 0.71	Y41	19.05	1.25	19.05	17.71	0.71	16.29	0.253
GEWA-PC 1"	x 1.05	P18	25.40	1.50	25.40	24.20	1.05	21.60	0.823

1) Approximate weight for tubes without unfinned intermediate parts
Low pressure version on request

Length l_1	Tolerances
< 2000	+ 2 mm
2000–8000	+ 1 ‰





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