



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, but also with light hydrocarbons, 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
- Advanced 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 | For highest performance and efficiency
- C+SL/LW | Weight optimized, drop-in applications
- CLF | For seawater/increased fouling applications
- CPL | For high fouling applications

Fabrication and Certification

- DIN EN 12452 / EN 10216-2
- DIN 17679 and 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.

ThermalS I Design Software

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

More information on our ThermalS online platform on: www.wieland-thermalsolutions.com/ThermalS.

Available in a wide range
of materials:



Range of available dimensions									
Tube	Material	Plain End		Finned Section				Approximate 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	K21	19.00	1.12	18.85	16.95	0.63	15.69	0.470	
GEWA-C5H 3/4" x 0.63	K21	19.00	1.10	18.85	16.95	0.63	15.69	0.485	
GEWA-C5H 3/4" x 0.71	K21	19.00	1.20	18.85	16.95	0.71	15.53	0.520	
GEWA-C5H 1" x 0.63	K21	25.45	1.16	25.25	23.35	0.63	22.09	0.680	
GEWA-C5H 1" x 0.71	K21	25.45	1.24	25.25	23.35	0.71	21.93	0.715	
GEWA-C+SL 3/4" x 0.63	K21	19.00	1.10	18.85	16.95	0.63	15.69	0.468	
GEWA-C+SL 3/4" x 0.71	K21	19.00	1.16	18.85	16.95	0.71	15.53	0.495	
GEWA-C+SL 3/4" x 0.90	K21	19.00	1.45	18.85	16.95	0.90	15.15	0.630	
GEWA-C+LW 1" x 0.71	K21	25.45	1.25	25.25	23.35	0.71	21.93	0.690	
GEWA-C+LW 1" x 0.63	K21	25.45	1.20	25.25	23.35	0.63	22.09	0.667	
GEWA-CLF 5/8" x 0.63	K21	15.88	1.17	15.8	13.9	0.63	12.64	0.434	
GEWA-CLF 5/8" x 0.63	L10	15.88	1.17	15.8	13.9	0.63	12.64	0.434	
GEWA-CLF 5/8" x 0.80	K21	15.88	1.40	15.8	13.9	0.80	12.3	0.500	
GEWA-CLF 5/8" x 0.80	L10	15.88	1.40	15.8	13.9	0.80	12.3	0.500	
GEWA-CLF 3/4" x 0.71	K21	19.00	1.30	18.85	16.95	0.71	15.53	0.590	
GEWA-CLF 3/4" x 0.90	K21	19.00	1.55	18.85	16.95	0.90	15.15	0.671	
GEWA-CLF 3/4" x 0.71	L10	19.00	1.35	18.85	17.15	0.71	15.73	0.590	
GEWA-CLF 3/4" x 0.71	L30	19.00	1.35	18.85	17.15	0.71	15.73	0.590	
GEWA-CLF 3/4" x 0.90	L10	19.00	1.55	18.85	17.15	0.90	15.35	0.669	
GEWA-CLF 3/4" x 0.90	CS	19.00	1.55	18.85	17.15	0.90	15.35	0.587	
GEWA-CLF 3/4" x 0.90	S76	19.00	1.55	18.85	17.15	0.90	15.35	0.625	
GEWA-CLF 3/4" x 1.00	L30	19.00	1.65	18.85	17.15	1.00	15.15	0.699	
GEWA-CLF 1" x 0.89	L10	25.45	1.55	25.25	23.55	0.89	21.77	0.921	
GEWA-CPL 3/4" x 0.90	K21	19.00	1.35	18.85	17.05	0.90	15.25	0.620	
GEWA-CPL 3/4" x 0.90	L10	19.00	1.35	18.85	17.05	0.90	15.25	0.620	

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

Tube Material		
Wieland Code	ISO Code	UNS Code/ ASTM-Code
K21	Cu-DHP	C12200
L10	CuNi10Fe1Mn	C70600
L30	CuNi30Mn1Fe	C71500
S76	CuZn20Al2As	C68700
CS	P235GH	A179

Other materials on request

Length Tolerances	
l_1	Length Tolerances
< 2000	+ 2 mm
2000-8000	+ 1 %

