

Wieland GEWA-B

Evaporator Tubes

Applications

GEWA-B tubes are enhanced nucleate boiling tubes for shell-and-tube heat exchangers. They are optimised for flooded and falling film evaporators in packaged chillers, both for the air-conditioning and refrigeration industry.

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

- B5 & B6 | For highest performance and efficiency
- B4HSL | Weight optimized, drop-in applications
- BHV | For media with high viscosities
- BLF/ BPL | For high fouling applications

Tube Material		
Wieland Code	ISO Code	UNS Code/ ASTM-Code
K21	Cu-DHP	C12200
L10	CuNi10Fe1Mn	C70600
O41	P235GH	A179

Other materials on request

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

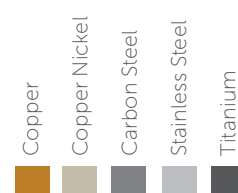
Certification for use in pressure vessels has been obtained with AD-Merkblatt W0/TRD 100. Certificates 3.1 / 3.2 according to DIN EN 10204.

ThermalS Design Software

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

More information on our ThermalS online platform on: wieland.com/optimized-heat-transfer

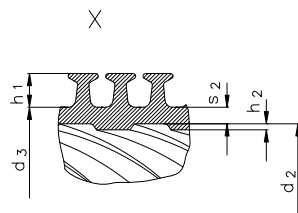
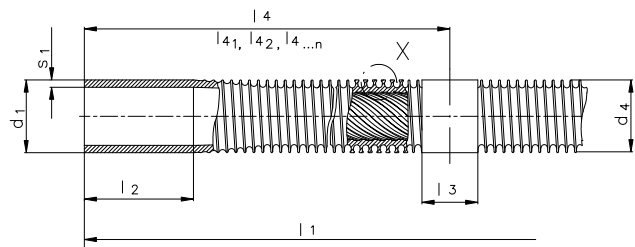
Available in a wide range of materials



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-B6H 3/4" x 0.63	K21	19.00	1.13	18.85	17.96	0.63	16.70	0.495
GEWA-B6H 3/4" x 0.71	K21	19.00	1.20	18.85	17.97	0.71	16.55	0.526
GEWA-B6H 1" x 0.63	K21	25.45	1.13	25.30	24.15	0.63	22.89	0.662
GEWA-B6H 1" x 0.71	K21	25.45	1.24	25.30	24.15	0.71	22.73	0.718
GEWA-B5H 3/4" x 0.63	K21	19.00	1.16	18.85	17.75	0.63	16.49	0.490
GEWA-B5H 3/4" x 0.71	K21	19.00	1.24	18.85	17.75	0.71	16.33	0.551
GEWA-B5H 3/4" x 0.89	K21	19.00	1.45	18.85	17.75	0.89	15.97	0.630
GEWA-B5H 1" x 0.63	K21	25.45	1.20	25.30	24.20	0.63	22.94	0.710
GEWA-B5H 1" x 0.71	K21	25.45	1.27	25.30	24.20	0.71	22.78	0.760
GEWA-B5LSL 3/4" x 0.63 ²⁾	K21	19.00	1.13	18.85	17.85	0.63	16.59	0.477
GEWA-B5LSL 1" x 0.63 ²⁾	K21	25.45	1.13	25.25	24.25	0.63	22.99	0.662
GEWA-B5LSL 1" x 0.71 ²⁾	K21	25.45	1.24	25.25	24.25	0.71	22.83	0.713
GEWA-B5LSL 3/4" x 0.71 ²⁾	K21	19.00	1.24	18.85	17.85	0.71	16.43	0.531
GEWA-B4HSL 3/4" x 0.63	K21	19.00	1.12	18.85	17.85	0.63	16.59	0.478
GEWA-B4HSL 3/4" x 0.71	K21	19.00	1.20	18.85	17.85	0.71	16.43	0.522
GEWA-B4HSL 3/4" x 0.89	K21	19.00	1.45	18.85	17.75	0.89	15.97	0.630
GEWA-B4HSL 1" x 0.55	K21	25.45	1.13	25.25	24.05	0.55	22.86	0.637
GEWA-B4HSL 1" x 0.63	K21	25.45	1.13	25.25	24.25	0.63	22.99	0.679
GEWA-B4HSL 1" x 0.71	K21	25.45	1.20	25.25	24.25	0.71	22.83	0.718
GEWA-B4HSL 1" x 0.89	K21	25.45	1.45	25.25	24.05	0.89	22.27	0.874
GEWA-B4LSL 3/4" x 0.63 ²⁾	K21	19.00	1.10	18.85	17.89	0.63	16.63	0.477
GEWA-B4LSL 3/4" x 0.71 ²⁾	K21	19.00	1.20	18.85	17.89	0.71	16.47	0.518
GEWA-BLF 3/4" x 0.80	K21	19.00	1.45	18.85	17.45	0.80	15.85	0.637
GEWA-BLF 3/4" x 0.90	L10	19.00	1.55	18.85	17.45	0.90	15.65	0.680
GEWA-BLF 3/4" x 0.90	CS	19.00	1.55	18.85	17.45	0.90	15.65	0.596
GEWA-BLF 3/4" x 1.00	CS	19.00	1.75	18.80	17.40	1.00	15.40	0.638
GEWA-BHV 3/4" x 0.80	K21	19.00	1.45	18.85	17.55	0.80	15.95	0.642
GEWA-BHV 1" x 0.71	K21	25.45	1.20	25.25	24.35	0.71	22.93	0.742
GEWA-BPL 3/4" x 0.90	L10	19.00	1.40	18.85	17.45	0.90	15.65	0.636

1) Approximate weight for tubes without unfinned intermediate parts
2) L = version for low pressure refrigerants

Length l ₁	Tolerances
< 2000	+ 2 mm
2000–8000	+ 1 %



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