



# 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
- 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

- 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

### 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: [www.wieland-thermalsolutions.com/ThermalS](http://www.wieland-thermalsolutions.com/ThermalS).

Available in a wide range of materials:



Range of available dimensions									
Tube	Material	Plain End		Finned Section				Approximate Weight <sup>1)</sup>	
		$d_1$	$s_1$	$d_4$	$d_3$	$s_2$	$d_2$	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	0.505	
GEWA-B5H 3/4" x 0.71	K21	19.00	1.24	18.85	17.75	0.71	16.33	0.545	
GEWA-B5H 3/4" x 0.89	K21	19.00	1.45	18.85	17.75	0.89	15.97	0.623	
GEWA-B5H 1" x 0.63	K21	25.45	1.20	25.30	24.20	0.63	22.94	0.702	
GEWA-B5H 1" x 0.71	K21	25.45	1.27	25.30	24.20	0.71	22.78	0.752	
GEWA-B5LSL 3/4" x 0.63 <sup>2)</sup>	K21	19.00	1.13	18.85	17.85	0.63	16.59	0.477	
GEWA-B5LSL 1" x 0.63 <sup>2)</sup>	K21	25.45	1.13	25.25	24.25	0.63	22.99	0.662	
GEWA-B5LSL 1" x 0.71 <sup>2)</sup>	K21	25.45	1.24	25.25	24.25	0.71	22.83	0.713	
GEWA-B5L 3/4" x 0.71 <sup>2)</sup>	K21	19.00	1.24	18.85	17.75	0.71	16.33	0.545	
GEWA-B4HSL 3/4" x 0.63	K21	19.00	1.12	18.85	17.85	0.63	16.59	0.483	
GEWA-B4HSL 3/4" x 0.71	K21	19.00	1.20	18.85	17.85	0.71	16.43	0.526	
GEWA-B4HSL 3/4" x 0.89	K21	19.00	1.45	18.85	17.75	0.89	15.97	0.623	
GEWA-B4HSL 1" x 0.55	K21	25.45	1.13	25.25	24.05	0.55	22.86	0.665	
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	0.717	
GEWA-B4HSL 1" x 0.89	K21	25.45	1.45	25.25	24.05	0.89	22.27	0.865	
GEWA-B4HSL 1/2" x 0.55	K21	12.70	1.05	12.55	11.55	0.55	10.45	0.303	
GEWA-B4L 3/4" x 0.63 <sup>2)</sup>	K21	19.00	1.12	18.85	17.85	0.63	16.59	0.500	
GEWA-B4L 3/4" x 0.71 <sup>2)</sup>	K21	19.00	1.20	18.85	17.85	0.71	16.43	0.535	
GEWA-BLF 3/4" x 0.80	K21	19.00	1.45	18.85	17.45	0.80	15.85	0.649	
GEWA-BLF 3/4" x 0.90	L10	19.00	1.55	18.85	17.45	0.90	15.65	0.673	
GEWA-BLF 3/4" x 0.90	CS	19.00	1.55	18.85	17.45	0.90	15.65	0.590	
GEWA-BLF 3/4" x 1.00	CS	19.00	1.75	18.80	17.40	1.00	15.40	0.632	
GEWA-BHV 3/4" x 0.80	K21	19.00	1.45	18.85	17.55	0.80	15.95	0.636	
GEWA-BHV 1" x 0.71	K21	25.45	1.20	25.25	24.35	0.71	22.93	0.746	
GEWA-BPL 3/4" x 0.90	L10	19.00	1.40	18.85	17.45	0.90	15.65	0.650	

1) weight for tubes without unfinned intermediate parts

2) L = version for low pressure refrigerants

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

Other materials on request

Length Tolerances	
$l_1$	Length Tolerances
< 2000	+ 2 mm
2000–8000	+ 1 %

