

# GRAPHITE CUBIC MODELS B&C

## BLOCK HEAT EXCHANGERS

Graphite Cubic Block Heat Exchangers are manufactured using corrosion resistant impregnated graphite and are suitable for most corrosive applications. They are competitive against material such as glass, silicon carbide, nickel alloys and the exotic metals tantalum and titanium.

### **Corrosion Resistant**

Range of impregnations available (Phenolic resin, PTFE & Carbon)

### **Compact**

The cubic units have a large area per unit volume

### **GMP design features**

Fully draining and no process to service gaskets

### **Multipass arrangement**

On process and service side to give optimum selection of units

### **Double drilling on process side**

Effectively doubling the process side surface area making units ideal for condensing and gas cooling duties (Double drilled design)

### **Suitable as interchanger**

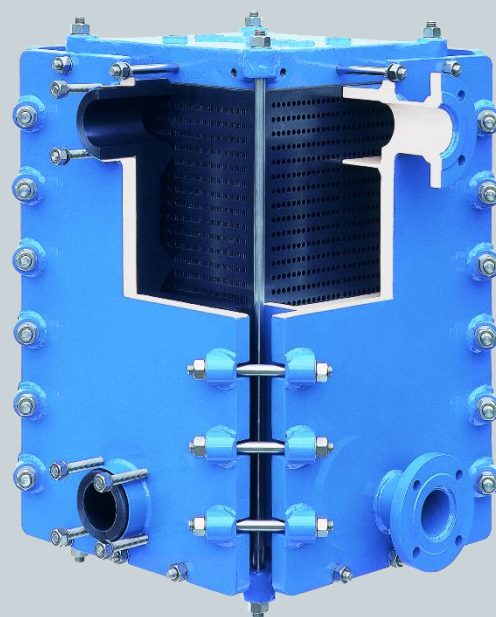
Best solution for corrosive fluids on both process and service side

### **Easy maintenance**

Easily dismantled for overhaul, cleaning and validation

### **After sales service**

Stocks of spares and well-equipped repair workshops to keep you in business



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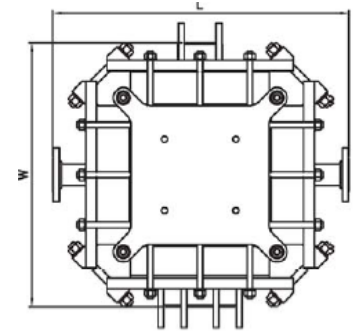
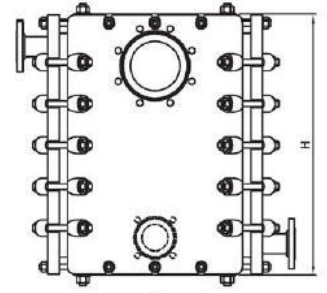
## TECHNICAL INFORMATION

### Standard features

- Superior quality graphite is used for standard and high density HYKARB/GRAPHILOR® parts
- Range of impregnations systems including phenolic resin, PTFE and carbon
- Designed and manufactured in accordance with the Pressure Equipment Directive 97/23/EC (PED)
- Boiler quality steel is always used with certified low temperature steel grades for all sub-zero applications
- Zinc plated bolting as standard
- No hidden gaskets
- Design pressure up to 10 barG
- Design temperature (impregnation) up to:
  - HYKARB/GRAPHILOR® BS standard (Phenolic) 180°C
  - HYKARB DS/GRAPHILOR® XBS high density (Phenolic) 200°C
  - HYKARB DP/GRAPHILOR® XTH high density (PTFE) 230°C
  - HYKARB DC/GRAPHILOR® XC high density (Carbon) 430°C

### Optional extras

- Carbon steel supports (brackets and frames)
- HYKARB/GRAPHILOR® or lined carbon steel service side headers (rubber/fluoropolymer)
- PTFE bellows to take pipework stresses off graphite connections
- Design and manufacture of parts in accordance with ASME VIII Div 1
- API grade with all internal graphite surfaces machined free of resin



Model and Nominal heat transfer area m <sup>2</sup>						Overall dimensions			Weight
Hole-hole design		Slot-hole design		Double drilled design		Width	Length	Height	(Empty) kg
Model	Process HTA	Model	Process HTA	Model	Process HTA	W (mm)	L (mm)	H (mm)	
BA8	0.69	BB16	1.34	BD15	1.30	576	676	282	190
BA12	1.04	BB24	2.01	BD20	1.95	576	676	354	229
BA16	1.38	BB32	2.68	BD30	2.60	576	676	426	274
BA20	1.73	BB40	3.35	BD35	3.25	576	676	497	314
BA24	2.07	BB48	4.02	BD45	3.89	576	676	569	359
BA28	2.42	BB56	4.69	BD49	4.54	576	676	640	398
BA32	2.76	BB64	5.37	BD60	5.19	576	676	712	443
CA45	4.07	CB90	7.94	CD85	7.58	740	840	426	486
CA55	5.09	CB110	9.92	CD105	9.48	740	840	497	551
CA70	6.11	CB140	11.91	CD125	11.37	740	840	569	622
CA80	7.12	CB160	13.89	CD154	13.27	740	840	640	687
CA90	8.14	CB180	15.87	CD165	15.16	740	840	712	758
CA100	9.16	CB200	17.86	CD185	17.06	740	840	783	823
CA115	10.18	CB230	19.84	CD210	18.95	740	840	855	894
CA140	12.21	CB280	23.81	CD250	22.74	740	840	998	1030
CA160	14.25	CB320	27.78	CD290	26.53	740	840	1141	1166
CA180	16.28	CB360	31.75	CD335	30.32	740	840	1284	1302
CA205	18.32	CB410	35.72	CD375	34.11	740	840	1427	1443
CA230	20.36	CB460	39.68	CD415	37.90	740	840	1569	1579
CA250	22.39	CB500	43.65	CD455	41.69	740	840	1712	1715
CA275	24.43	CB550	47.62	CD500	45.48	740	840	1855	1851

Width 'W' is for graphite headers. Length 'L' is for steel headers

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