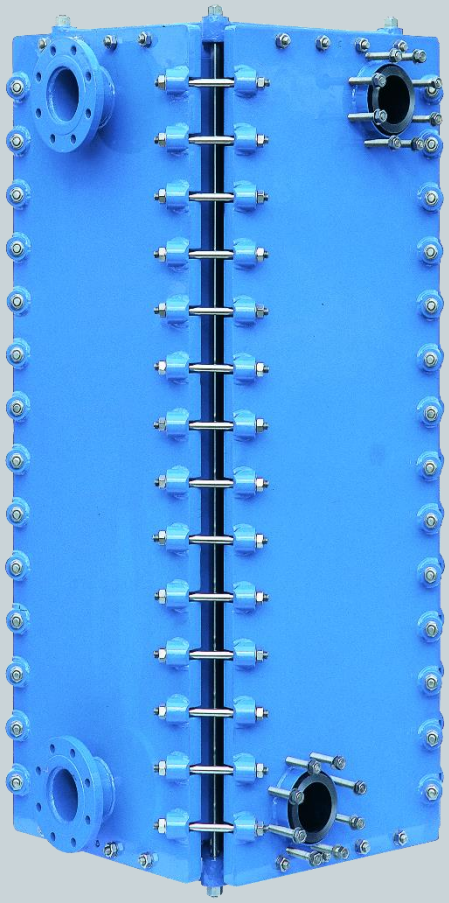
GRAPHITE CUBIC MODELS D&E

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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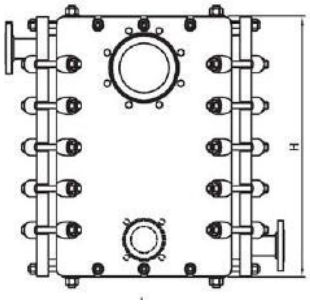
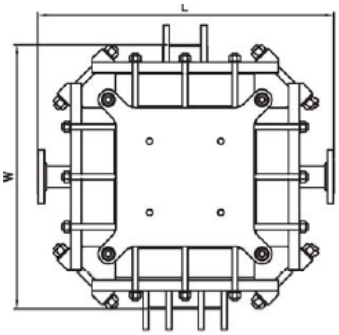
TECHNICAL INFORMATION





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 m²						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)	
DA125	11.21	DB250	20.31	DD225	20.40	860	970	660	983
DA140	12.82	DB280	23.21	DD255	23.32	860	970	732	1070
DA160	14.42	DB320	26.11	DD285	26.23	860	970	803	1163
DA180	16.02	DB360	29.01	DD320	29.15	860	970	875	1251
DA215	19.22	DB430	34.81	DD380	34.98	860	970	1018	1432
DA250	22.43	DB500	40.62	DD445	40.81	860	970	1161	1612
DA285	25.63	DB570	46.42	DD510	46.64	860	970	1304	1799
DA320	28.83	DB640	52.22	DD575	52.47	860	970	1447	1980
DA355	32.04	DB710	58.02	DD635	58.30	860	970	1589	2160
DA390	35.24	DB780	63.83	DD700	64.13	860	970	1732	2341
EA245	22.37	EB490	42.00	ED460	42.02	1100	1200	897	1751
EA295	26.85	EB590	50.40	ED550	50.42	1100	1200	1040	1992
EA345	31.32	EB690	58.80	ED640	58.82	1100	1200	1183	2233
EA395	35.80	EB790	67.20	ED735	67.23	1100	1200	1326	2474
EA445	40.27	EB890	75.60	ED825	75.63	1100	1200	1469	2715
EA495	44.75	EB990	84.01	ED915	84.04	1100	1200	1612	2956
EA545	49.22	EB1090	92.41	ED1005	92.44	1100	1200	1755	3197
EA590	53.70	EB1180	100.81	ED1100	100.84	1100	1200	1898	3438

Width ‘W’ is for graphite headers. Length ‘L’ is for steel headers

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