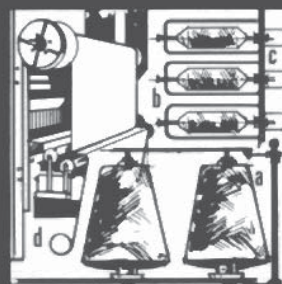
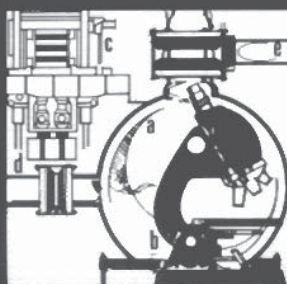


POLYBLOC II

IMPERVIOUS GRAPHITE HEAT EXCHANGERS

The Efficient Heat Exchanger



www.serviceprocess.net

Service Process Equipment, Inc.

PO Box 850908

Mobile AL 36685-0908

251.342.1313 Fax 251.342.1377

Email msellers@serviceprocess.net

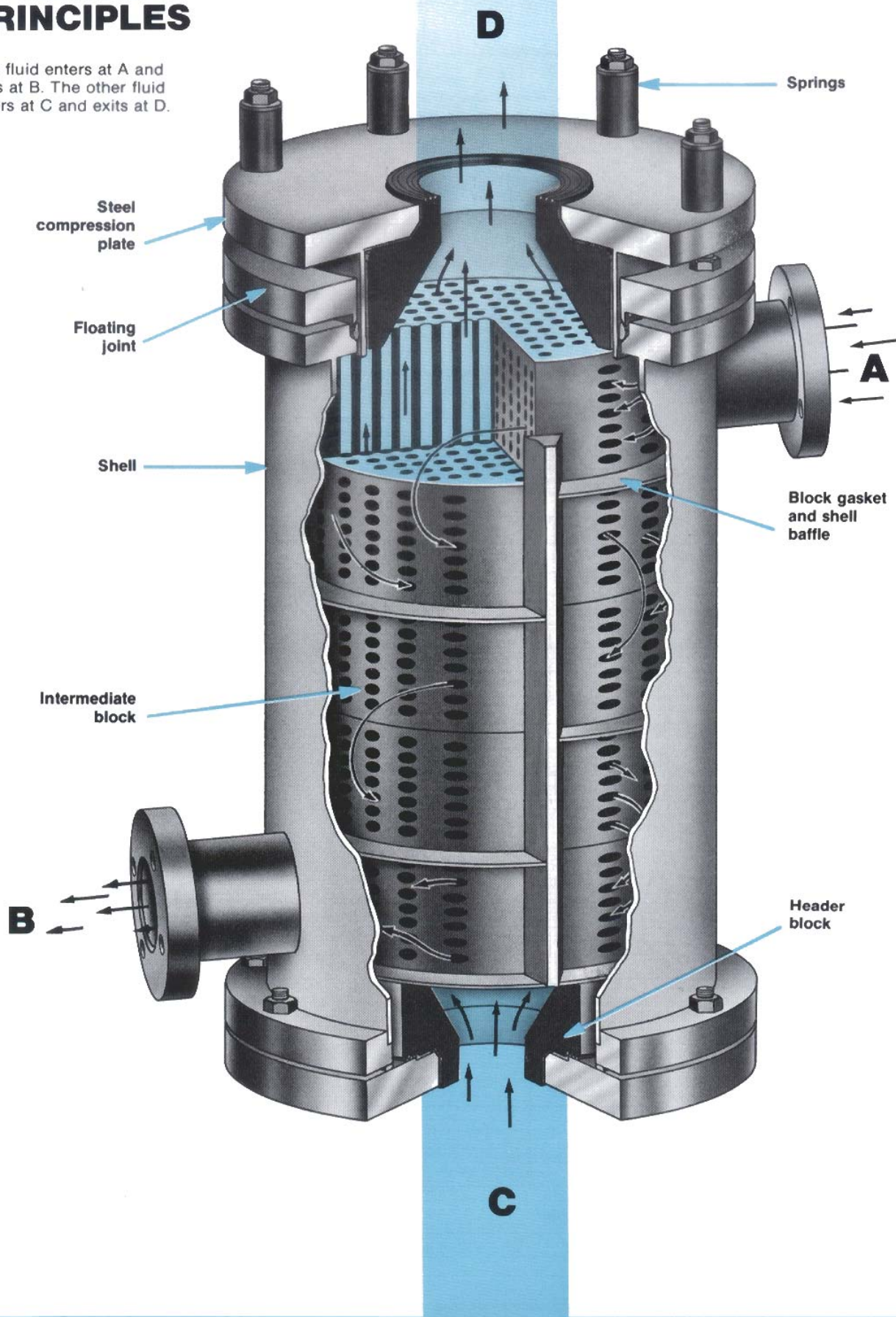
CARBONE OF AMERICA



GROUPE
CARBONE LORRAINE

OPERATING PRINCIPLES

One fluid enters at A and exits at B. The other fluid enters at C and exits at D.



FEATURES

- FULL ASME CONSTRUCTION & STAMP
- MULTIPASSING FOR BOTH PROCESS & SERVICE SIDES
- NO CEMENTED JOINTS BETWEEN BLOCKS
- 3 STANDARD IMPREGNATIONS, INCLUDING TFE
- SHELL IS CARBON STEEL, OR IT CAN BE LINED, CLAD, ALLOY OR FRP CONSTRUCTION
- HIGH PRESSURE RATING

ADVANTAGES

■ CORROSION RESISTANT

Impervious graphite blocks with advanced impregnations are resistant to most corrosives and solvents up to 450°F, with the exception of certain concentrated, strong oxidizers. Optional shell construction allows for corrosives on both process and service sides. Teflon seals between blocks prevent contact between the fluids.

■ COMPACTNESS

Cross-flow drilling pattern maximizes available heat transfer surface per given volume of graphite.

■ RUGGED CONSTRUCTION

High strength graphite blocks are held in compression by spring loaded tie rods. There are no tubes to break or cemented joints to be attacked by process fluids.

■ VERSATILITY

Heat exchange surface can be increased by adding more blocks. Optional segmental shells (additional shell flanges) facilitate this simple procedure at the plant site.

■ LOW MAINTENANCE

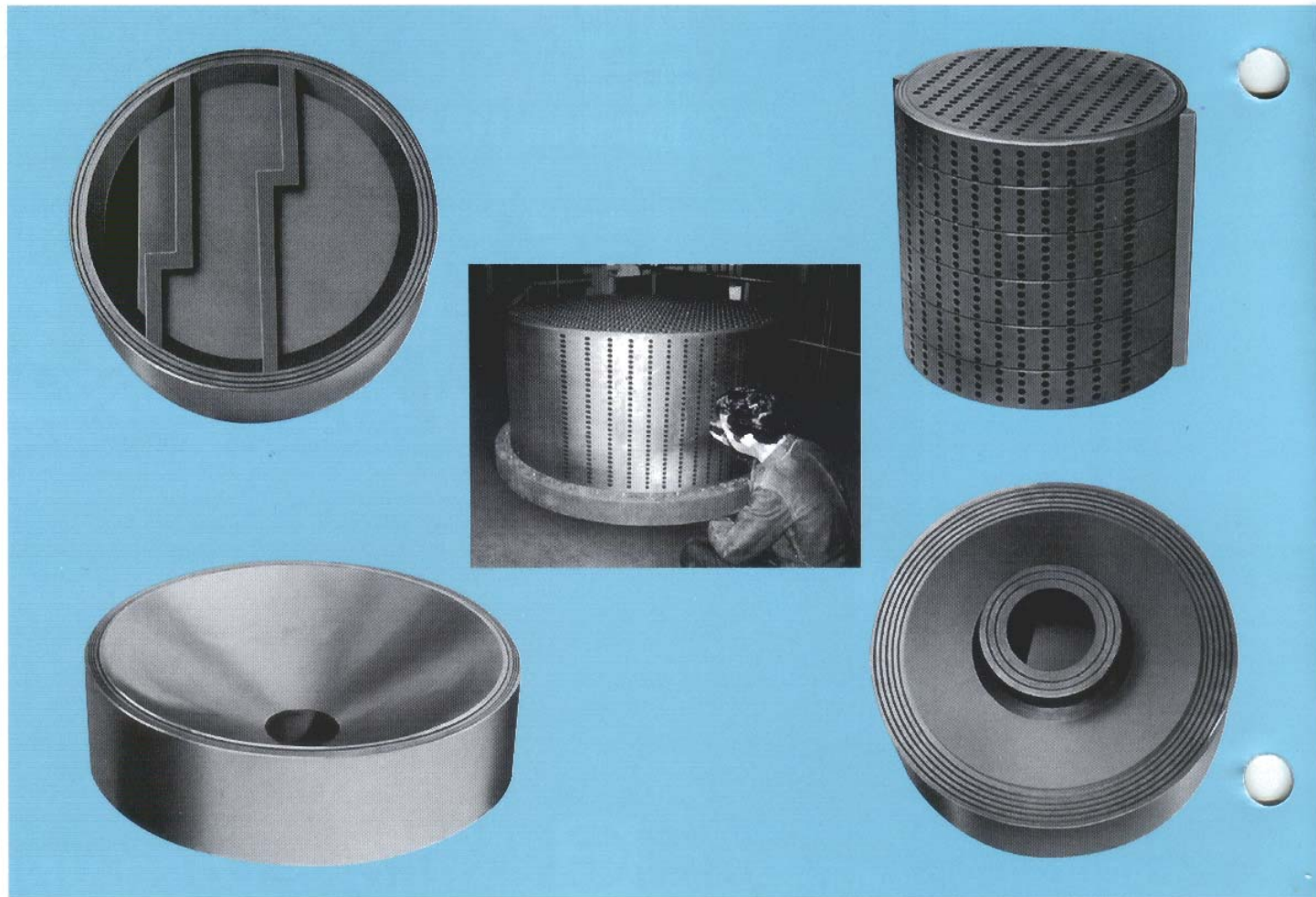
Rugged monolithic block construction keeps maintenance costs low. Cleaning and servicing is simplified because Polyblocs are easily dismantled on site and most parts are available from stock.

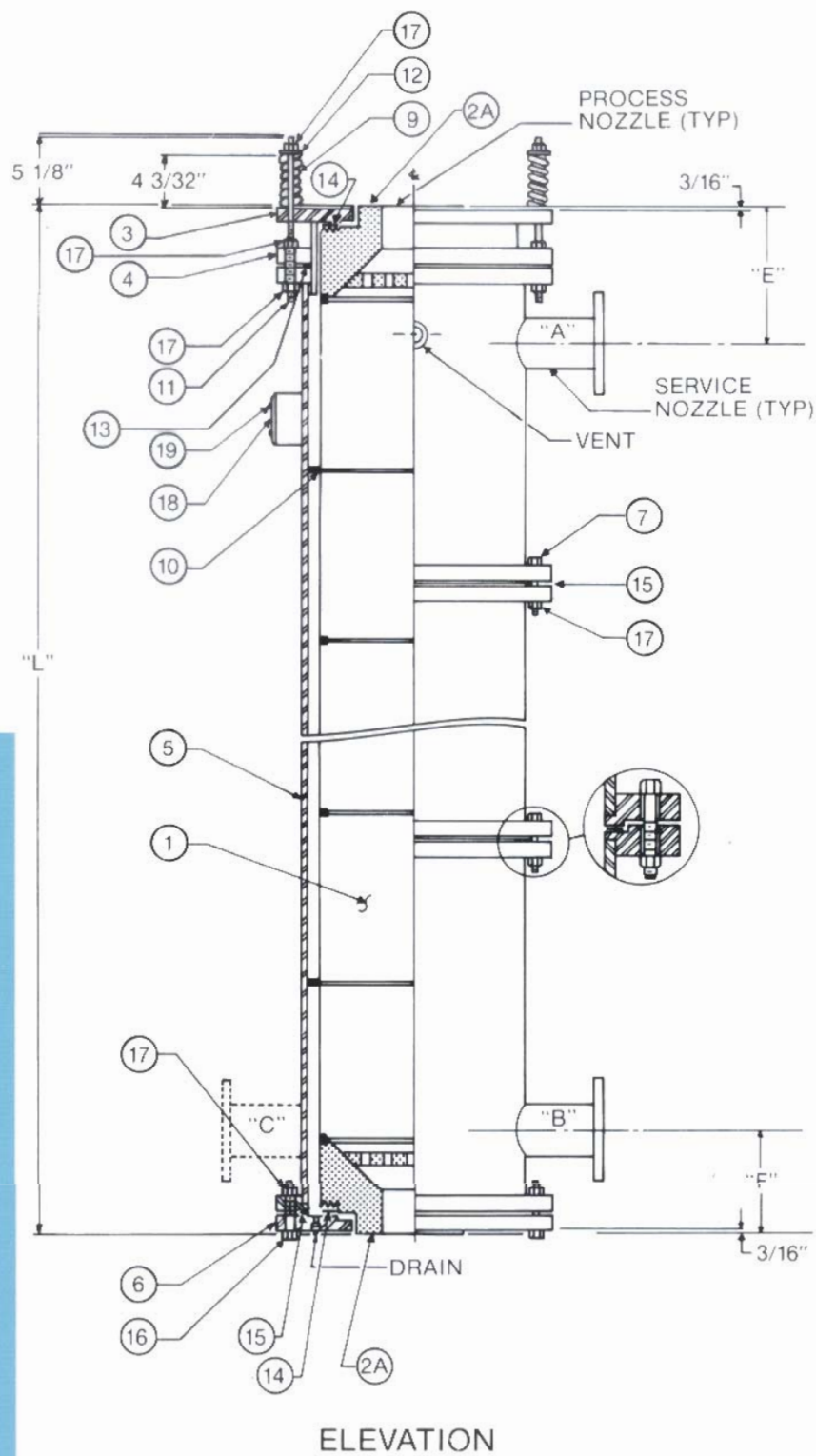
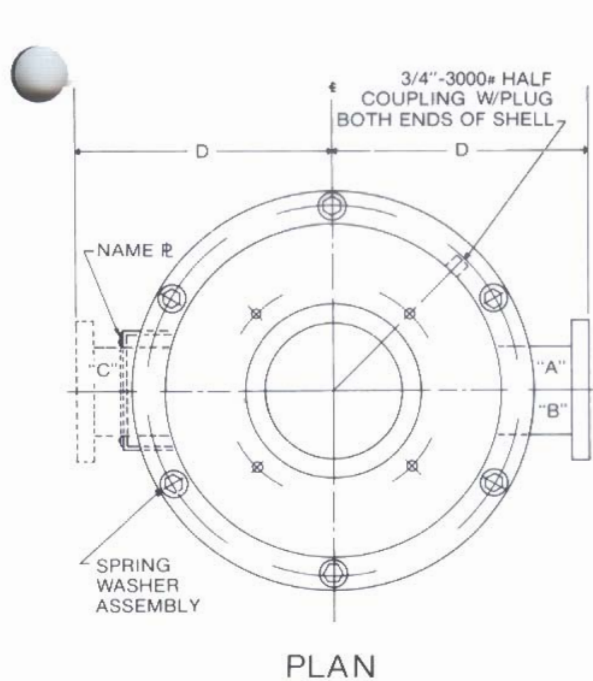
■ EASILY INSTALLED

The rugged Polybloc construction makes them easy to handle. Units can be installed vertically or horizontally, in series, parallel, or in combinations. Mounting is no problem since the units can be attached to any suitable framework or floor structure.

■ ECONOMY

In the long run Polybloc's value is unsurpassed. Their efficiency is high and construction is rugged. Time tested, with thousands of units in service worldwide, Polybloc's value has been proven time and time again.





MODEL	BLOCK DRILLING								BLOCK HEIGHT	HEAT TRANSFER AREA (Per block ft²)
	AXIAL				RADIAL					
	NO.	DIA.	CSA (ft²)	PASSES	NO.	DIA.	CSA (ft²)	PASSES		
PBC8	75	.394	.064	1 or 3	224	.315	.118	1,3 or 6	13.39	8.61
PBC8L	36	.630	.077	↓	168	.315	.092	↓	13.39	6.56
PBC13	205	.394	.172	1,3 or 5	336	.315	.183	↓	13.39	23.46
PBC13L	98	.630	.210	↓	280	.315	.151	↓	13.39	17.94
PBC18	302	.394	.253	↓	350	.394	.296	1,2 or 4	15.43	39.9
PBC18L	161	.630	.350	↓	300	.394	.253	↓	15.43	34.1
PBC24	530	.394	.449	↓	522	.394	.441	↓	18.98	86.6
PBC24L	295	.630	.640	↓	464	.394	.388	↓	18.98	76.8
PBC36	683	.512	.974	↓	340	.512	.484	1 or 3	13.39	102.2
PBC36L	463	.709	1.270	↓	306	.512	.436	↓	13.39	95.8

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MODEL	PBC8	PBC13	PBC18	PBC24	PBC36
P—Process Connection	3"	5"	6"	8"	14"
S—Service Connection	3"	3"	4"	6"	6"
D	9 27/32"	13 9/16"	15 3/4"	18"	27 9/16"
E	9 1/16"	9 1/4"	11"	12 1/4"	13"
F	6 5/16"	6 7/8"	7 11/16"	9"	10"
NUMBER OF BLOCKS					
2	3'-4"	3'-4 13/32"	3'-10 15/32"	4'-9 3/32"	4'-5 25/32"
3	4'-5 15/32"	4'-5 27/32"	5'-1 31/32"	6'-4 5/32"	5'-7 1/4"
4	5'-6 15/16"	5'-7 11/32"	6'-5 1/2"	7'-11 3/16"	6'-8 11/16"
5	6'-8 13/32"	6'-8 25/32"	7'-9"	9'-6 1/4"	7'-10 5/32"
6	7'-9 7/8"	7'-10 1/4"	9'-0 1/2"	11'-1 5/16"	8'-11 5/8"
7	8'-11 5/16"	8'-11 23/32"	10'-4"	12'-8 3/8"	10'-1 3/32"
8	10'-0 25/32"	10'-1 3/16"	11'-7 17/32"	14'-3 13/32"	11'-2 9/16"
9	11'-2 1/4"	11'-2 21/32"	12'-11 1/32"	15'-10 15/32"	12'-4 1/32"
10	12'-3 23/32"	12'-4 3/32"	14'-2 9/16"	17'-5 17/32"	13'-5 1/2"
11	13'-5 3/16"	13'-5 9/16"	15'-6 1/16"	19'-0 19/32"	14'-6 31/32"
12	14'-6 5/8"	14'-7 1/32"	16'-9 9/16"	20'-7 5/8"	15'-8 7/16"
13	15'-8 1/8"	15'-8 1/2"	18'-1 3/32"	22'-2 11/16"	16'-9 29/32"
14	16'-9 9/16"	16'-9 31/32"	19'-4 19/32"	23'-9 3/4"	17'-11 11/32"
15	17'-11 1/32"	17'-11 7/16"	20'-8 3/32"	25'-4 13/16"	19'-0 27/32"
16	19'-0 1/2"	19'-0 29/32"	21'-11 5/8"	26'-11 7/8"	20'-2 9/32"
17	20'-1 31/32"	20'-2 3/8"	23'-3 1/8"	28'-6 29/32"	21'-3 3/4"
18	21'-3 7/16"	21'-3 13/16"	24'-6 21/32"	30'-1 31/32"	22'-5 7/32"
19	22'-4 29/32"	22'-5 9/32"	25'-10 5/32"	31'-9"	23'-6 11/16"
20	23'-6 3/8"	23'-6 3/4"	27'-1 21/32"	33'-4 1/16"	24'-8 1/8"
21	---	---	---	---	25'-9 19/32"
22	---	---	---	---	26'-11 1/16"
23	---	---	---	---	28'-0 17/32"
24	---	---	---	---	29'-2"
25	---	---	---	---	30'-3 15/32"

d.
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All dimensions are in inches unless otherwise indicated.