

B-line

Heat Exchangers

High
performance
at right
price



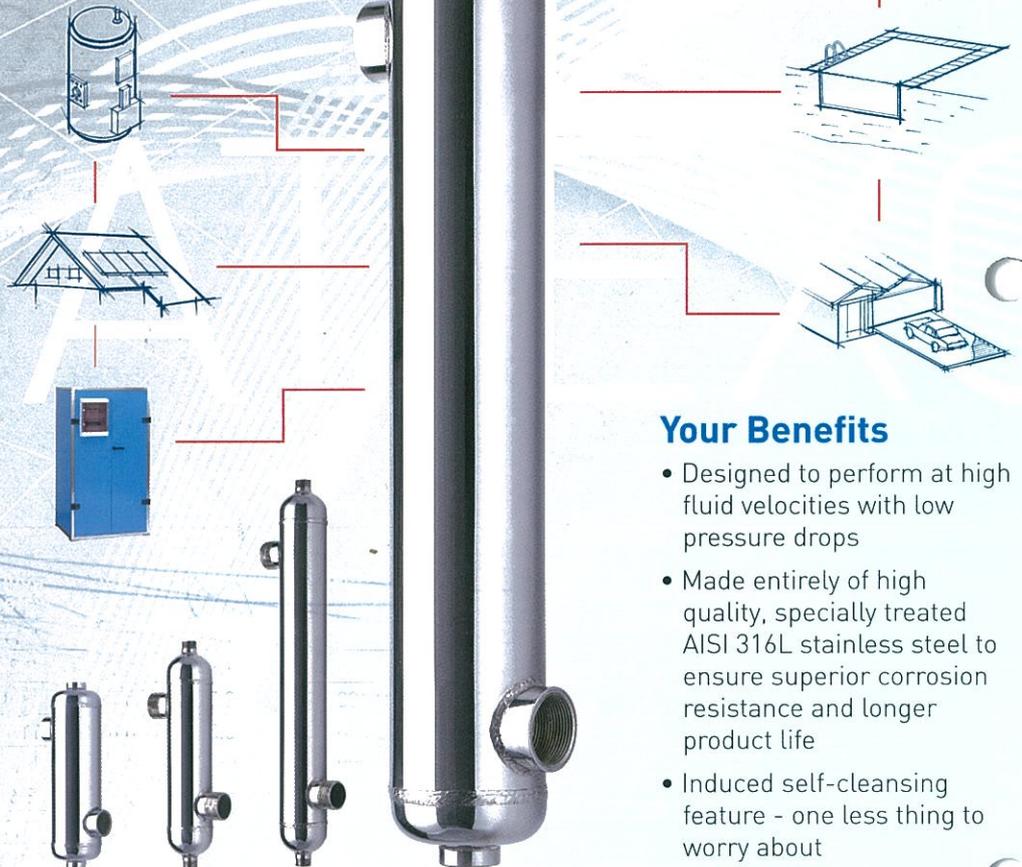
B-line Heat Exchangers

Typical residential applications

- In-floor heating
- swimming pools, spas, hot tubs
- driveway snowmelts

Typical industrial applications

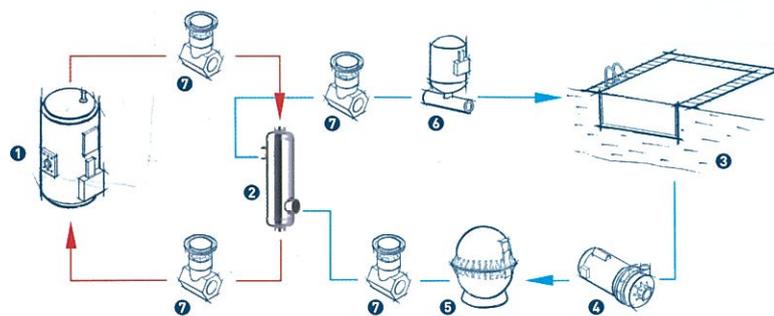
- oil coolers
- transmission and engine coolers
- boiler sample coolers
- waste water heat recovery



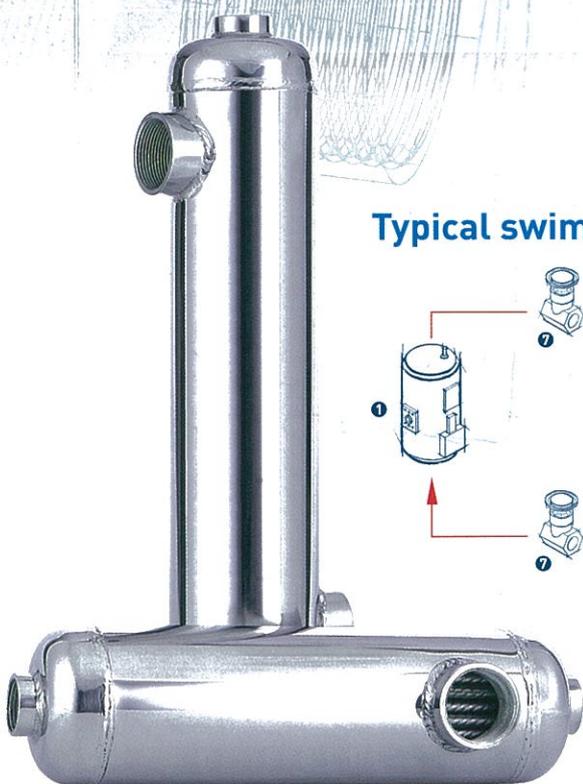
Your Benefits

- Designed to perform at high fluid velocities with low pressure drops
- Made entirely of high quality, specially treated AISI 316L stainless steel to ensure superior corrosion resistance and longer product life
- Induced self-cleansing feature - one less thing to worry about

Typical swimming pool installation



- 1 Boiler
- 2 Heat exchanger
- 3 Swimming Pool
- 4 Pump
- 5 Filter
- 6 Chlorine Feeder
- 7 Gate Valve



Choose the right Secespol Heat Exchanger for typical pool application

Heat source:

**Modern gas boiler
(not condensing boiler)**

Input fluid: water

Calculating temperature:
input fluid: 75 °C/60 °C
pool water: input 25 °C

Exchanger	power [kW]	flow [m ³ /h]		pressure drop [kPa]		warming of pool water [°C]
		input fluid	pool water	input fluid	pool water	
B 70	12,0	0,7	9,4	0,2	7,4	1,1
B 130	21,0	1,2	9,6	0,6	9,5	1,9
B 180	33,0	2,0	14,3	0,5	9,5	2,0
B 250	62,0	3,7	12,5	2,3	9,8	4,3
B 300	88,0	5,2	10,9	5,7	9,4	7,0
B 500	120,0	7,1	8,6	12,4	9,9	12,0
B 1000	245,0	14,5	17,7	16,9	8,7	12,0

Heat source:

**Solar collector with
cover glass**

Input fluid: water

Calculating temperature:
input fluid: 55 °C/45 °C
pool water: input 25 °C

Exchanger	power [kW]	flow [m ³ /h]		pressure drop [kPa]		warming of pool water [°C]
		input fluid	pool water	input fluid	pool water	
B 70	4,0	0,4	6,9	0,1	4,1	0,5
B 130	8,0	0,7	7,7	0,2	6,3	0,9
B 180	12,0	1,1	13,0	0,2	7,9	0,8
B 250	27,0	2,4	11,7	1,0	8,6	2,0
B 300	43,0	3,8	10,9	3,2	9,5	3,4
B 500	86,0	7,5	8,6	14,4	10,0	8,6
B 1000	198,0	17,3	14,3	24,8	5,8	12,0

Heat source:

**Solar collector with
cover glass**

Input fluid: antifreeze mixture
eth.glycol 50%

Calculating temperature:
input fluid: 55°C/45°C
pool water: input 25°C

Exchanger	power [kW]	flow [m ³ /h]		pressure drop [kPa]		warming of pool water [°C]
		input fluid	pool water	input fluid	pool water	
B 70	1,2	0,1	10,4	0,0	8,9	0,1
B 130	1,9	0,2	8,2	0,0	7,1	0,2
B 180	2,5	0,3	10,8	0,0	5,5	0,2
B 250	5,3	0,6	11,4	0,1	8,3	0,4
B 300	15,5	1,6	11,2	0,7	9,9	1,2
B 500	58,0	6,0	8,6	10,8	10,0	5,8
B 1000	153,0	15,9	11,0	25,0	3,5	12,0

Heat source:

**Flat collector without
cover glass - plastic mat**

Heat pump – it will reach high heating factor by these parameters

Input fluid: water

Calculating temperature:
input fluid: 40°C/35°C
pool water: input 25°C

Exchanger	power [kW]	flow [m ³ /h]		pressure drop [kPa]		warming of pool water [°C]
		input fluid	pool water	input fluid	pool water	
B 70	1,5	0,3	6,5	0,0	3,6	0,2
B 130	3,4	0,6	9,8	0,2	10,0	0,3
B 180	4,6	0,8	13,2	0,1	8,2	0,3
B 250	11,5	2,0	12,4	0,8	9,7	0,8
B 300	19,0	3,3	10,9	2,5	9,6	1,5
B 500	40,0	7,0	8,6	12,7	10,0	4,0
B 1000	97,0	16,9	9,9	24,2	2,9	8,5

Heat source:

**Flat collector without
cover glass - plastic mat**

Heat pump – it will reach high heating factor by these parameters

Input fluid: antifreeze mixture
eth.glycol 50 %

Calculating temperature:
input fluid: 40°C/35°C
pool water: input 25°C

Exchanger	power [kW]	flow [m ³ /h]		pressure drop [kPa]		warming of pool water [°C]
		input fluid	pool water	input fluid	pool water	
B 130	0,9	0,2	7,8	0,0	6,4	0,1
B 180	1,2	0,3	10,4	0,0	5,1	0,1
B 250	2,5	0,5	10,8	0,1	7,4	0,2
B 300	5,1	1,1	11,0	0,3	9,7	0,4
B 500	24,0	5,0	8,3	7,8	9,3	2,5
B 1000	75,0	15,6	10,8	25,0	3,4	6,0

B-line Heat Exchangers



ENGINEERING DATA

Heat Exchangers Nominal Performance

Heat Exchanger Type	Nominal Capacity	Hot Water		Cold Water		Heat Transfer Surface
	kW	Flow l/min	Pressure drop kPa	Flow l/min	Pressure drop kPa	m ²
B 70	20	30	1.1	170	8.5	0.18
B 130	38	56	4.5	200	14.1	0.23
B 180	53	79	2.8	210	7.2	0.38
B 250	73	108	7.0	260	14.7	0.55
B 300	88	87	5.7	300	24.5	0.73
B 500	146	144	18.0	260	30.7	1.37
B 1000	293	290	23.5	560	29.7	1.97

Nominal values are based on 60°C temperature between incoming heating and heated water

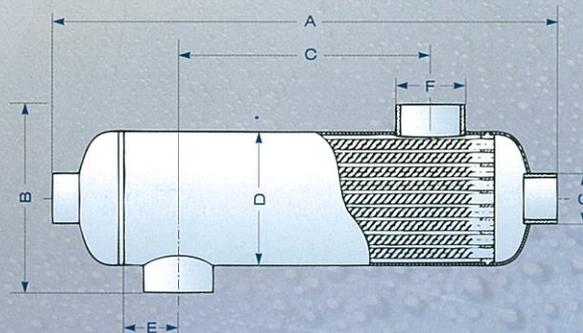
Standard Materials:

EN 1.4404 Stainless Steel

Optional Materials: Titanium

Maximum allowable Working Pressure: 16 bar

Maximum Allowable Working Temperature: 203°C



Dimensions

Type	A	B	C	D	E	F	G
	mm						
B 70	390		175	80.0	37.7		3/4"
B 130	440		225		39.5		
B 180	379		193			1 1/2"	
B 250	509		323	101.6	41.5		1"
B 300	637	143.6	451				
B 500	1103		884		58.0		
B 1000	969	223.0	598	139.7	100.0	2"	2"



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