Hexonic | HEAT EXCHANGERS

POOL

HEAT EXCHANGERS

Let's exchange

POOL
HEAT EXCHANGERS

Special design of our pool heat exchangers boosts heat transfer and delivers better utilization of heat source. Equipped with straight tubes all of the models ensure low pressure loss thus saving energy. Corrugated straight tubes promote turbulent flow which further intensifies heat exchange and helps reduce fouling.

Cutting-edge technology and durable materials such as titanium and stainless steel, make our heat exchangers resistant to corrosive environments. They can be used with all types of pool water – either treated or salt.

WHY CHOOSE HEXONIC POOL HEAT EXCHANGERS?

- HIGH PERFORMANCE
- EASY INSTALLATION
- OUTSTANDING RELIABILITY
- COMPATIBLE WITH ALL TYPES OF POOL INSTALLATIONS
- COMPATIBLE WITH ALL TYPES OF HEATING
- CAIRO USER-FRIENDLY CAIRO SELECTION SOFTWARE MAKES THE SELECTION PROCESS EASY

HEAT EXCHANGERS

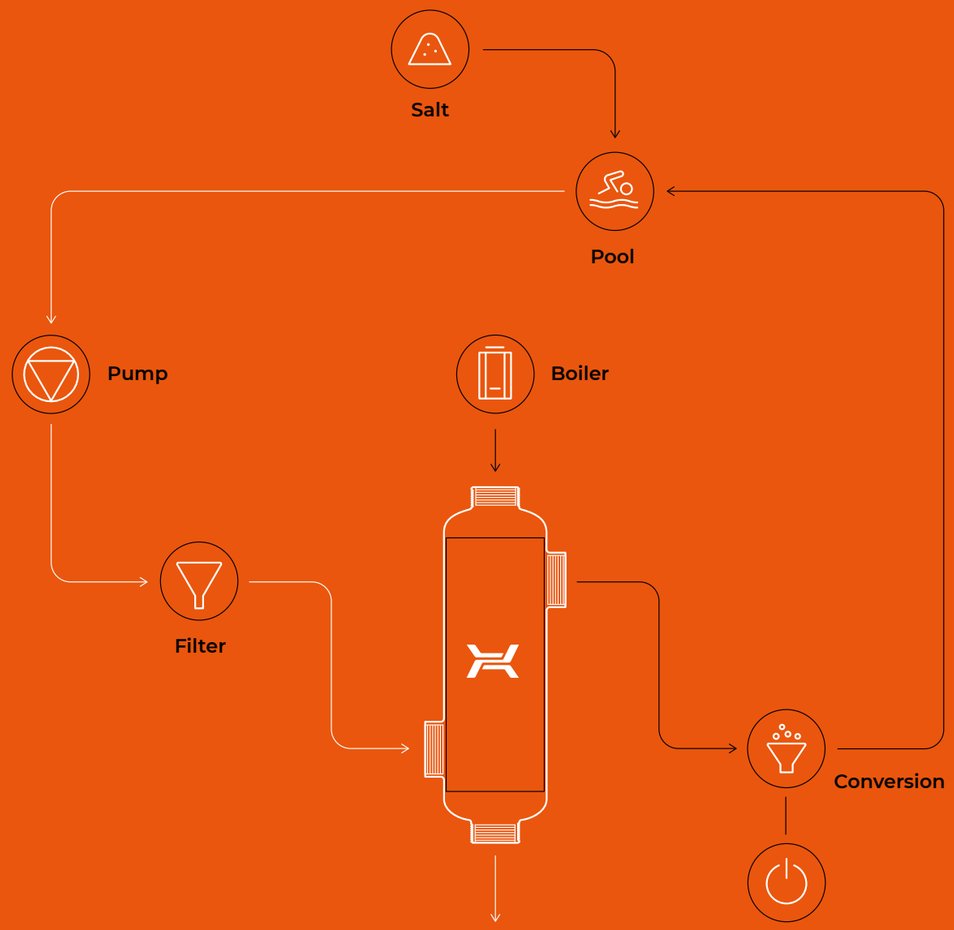


DIAGRAM OF SALT WATER POOL
WITH A HEXONIC POOL HEAT EXCHANGER

APPLIANCE

Pool	HEAT EXCHANGER TYPE			
	B	REV	TI	JAG
Public pool	💧💧	💧💧	💧	💧💧
Private pool	💧💧	💧💧	💧	💧
Olympic-size pool	💧💧	💧💧	💧	💧💧💧
Kids' pool	💧💧	💧💧	💧	💧
Hot tubs / SPA pools	💧	💧💧	💧💧	💧
Salt water pool	—	💧💧💧	💧💧💧	💧
Water park	💧💧	💧💧	💧	💧💧

Heat source type	HEAT EXCHANGER TYPE			
	B	REV	TI	JAG
Condensing boiler	💧	💧💧	💧	💧💧
Coal boiler	💧💧	💧💧	💧	💧
Geothermal water	—	💧💧	💧💧💧	💧
Heat pump	💧	💧💧	💧	💧💧
Solar system	💧	💧💧	💧	💧💧
District heating	💧💧	💧💧	💧	💧💧

💧 possibility 💧💧 best choice 💧💧💧 necessity

B

POOL HEAT EXCHANGERS

B pool heat exchangers are characterized by high thermal efficiency. They are the perfect solution in high-flow systems, in particular pool systems of different types and sizes.

B type exchangers are shell and tube exchangers equipped with straight corrugated tubes. They can be used in systems with high medium flow in comparison to transferred thermal power. It is a proven solution for pool and solar systems or small oil preheating systems.

The use of corrugated tubes intensifies heat exchange and increases self-cleaning possibilities. Compact, welded B type exchangers are highly durable and reliable.

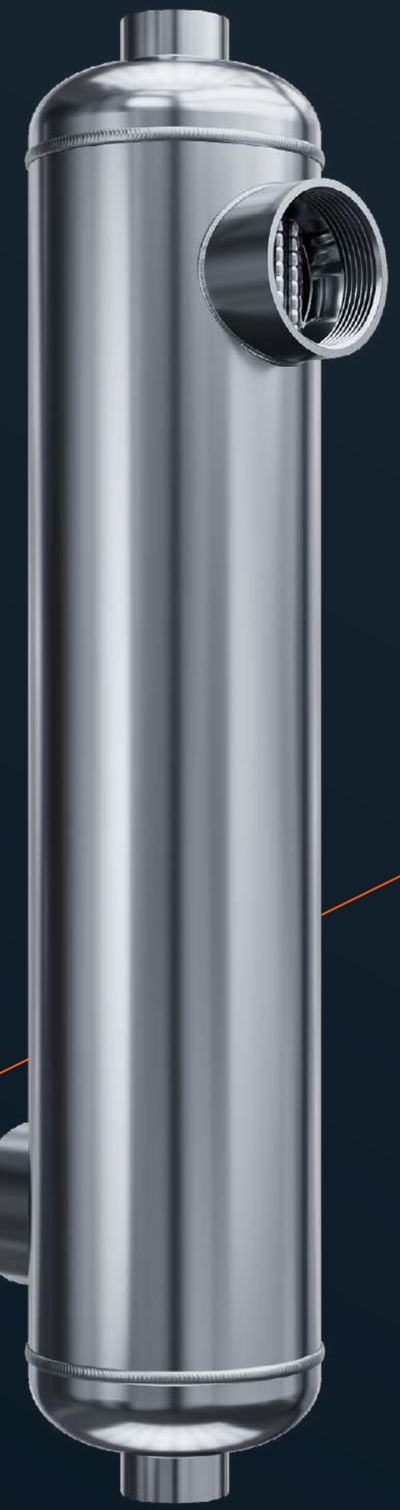
DESIGN

HIGH VOLUME FLOW AT LOW PRESSURE LOSS; NO NEED OF BY-PASS

COMPACT SIZE

CORRUGATED TUBES INTENSIFY HEAT EXCHANGE AND REDUCE FOULING

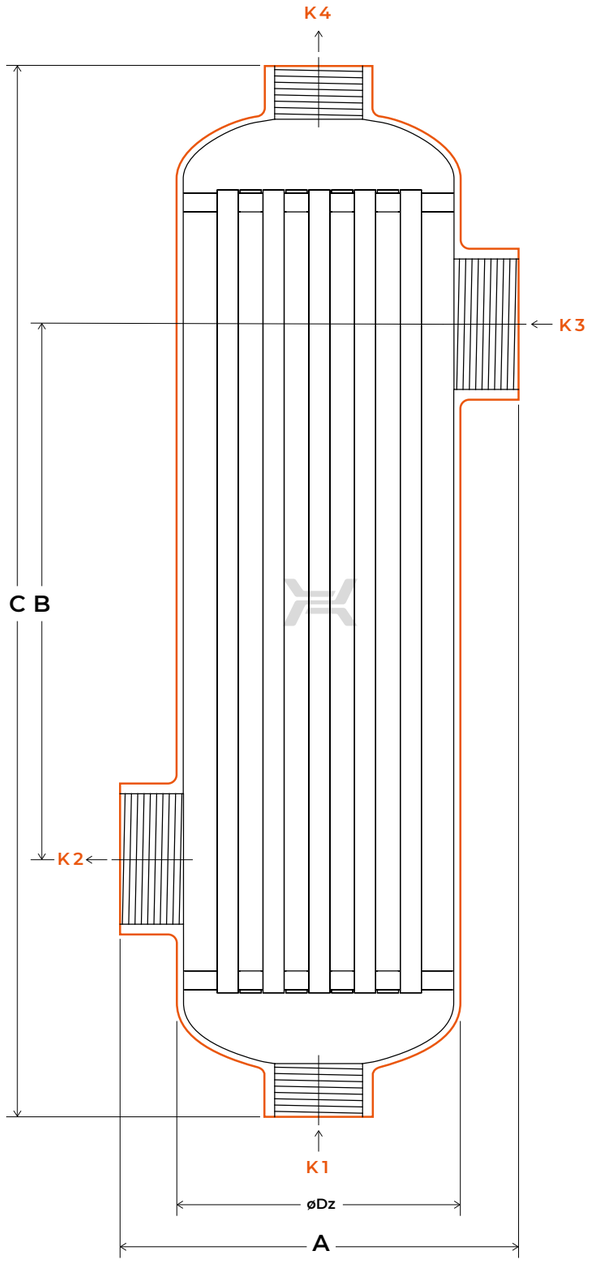
RESISTANCE TO AGGRESSIVE SUBSTANCES IN POOL WATER (E.G. FLUORINE, CHLORINE)



TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

K1 / K4 — inlet / outlet heat source – internal thread
K3 / K2 — inlet / outlet pool water – internal thread



Type	Connection size	
	K1, K4	K2, K3
B45	G¾"	G1"
B70	G¾"	G1½"
B130	G¾"	G1½"
B180	G1"	G1½"
B250	G1"	G1½"
B300	G1"	G1½"
B500	G1"	G2"
B1000	G2"	G2"

WORKING PARAMETERS

MAX. TEMPERATURE — 165°C / 329°F
MAX. PRESSURE — 16 BAR / 232 PSI

TECHNICAL PARAMETERS

Type	Dimensions								Heat exchange area		Tube diameter		Weight		Tube side capacity		Shell side capacity	
	A		B		C		ØDz											
	mm	in	mm	in	mm	in	mm	in	m²	ft²	mm	in	kg	lb	l	gal	l	gal
B45	122	4.8	75	3.0	289,5	11.4	80	3.1	0,1	1.2	8	0.3	2,1	4.6	0,5	0.1	0,5	0.1
B70	122	4.8	175	6.9	389,5	15.3	80	3.1	0,2	1.9	8	0.3	3	6.6	0,6	0.2	0,8	0.2
B130	122	4.8	225	8.9	439,5	17.3	80	3.1	0,2	2.5	8	0.3	3,3	7.3	0,7	0.2	1,0	0.3
B180	143,6	5.7	193	7.6	379	14.9	101,6	4.0	0,4	4.1	8	0.3	4,6	10.1	1,2	0.3	1,4	0.4
B250	143,6	5.7	323	12.7	509	20.0	101,6	4.0	0,6	5.9	8	0.3	5,8	12.8	1,5	0.4	2,0	0.5
B300	143,6	5.7	451	17.8	637	25.1	101,6	4.0	0,7	7.9	8	0.3	7,3	16.1	1,8	0.5	2,6	0.7
B500	143,6	5.7	884	34.8	1 103	43.4	101,6	4.0	1,4	14.7	8	0.3	12,4	27.3	2,8	0.7	4,8	1.3
B1000	190	7.5	680	26.8	943	37.1	139,7	5.5	2,0	21.2	8	0.3	23,5	51.8	4,6	1.2	7,8	2.1

All dimensions and technical data are approximate only and may be changed without further notice.

MAX. HEAT LOAD

MAX. HEAT LOAD													
Heat source temperature inlet		Pool water temperature inlet		B45		B70		B130		B180			
°C	°F	°C	°F	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
40	104	20	68	6	20	10	34	10	34	16	55	20	68
50	122	20	68	10	34	16	55	18	63	26	89	32	109
60	140	20	68	14	48	22	75	26	89	36	122	44	150
70	158	20	68	18	61	28	96	34	116	46	155	56	190
80	176	20	68	22	75	34	116	42	143	56	190	68	230
90	194	20	68	26	89	40	136	50	170	66	225	80	270

		m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h
Pool water	**Flow**	12	3 170	12	3 170	12	3 170	12	3 170	15	3 963
Heat source		3	793	3	793	3	793	4	1 057	5	1 321

		kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi
Pool water	**Pressure drop**	14	2.0	12	1.7	15	2.2	7	1.0	11	1.6
Heat source		2	0.3	3	0.4	4	0.6	2	0.3	3	0.4

Pool capacity [m³]	up to 15	15–25	25–40	40–55

All dimensions and technical data are approximate only and may be changed without further notice.

MAX. HEAT LOAD																	
B250				B300				B500				B1000					
kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
22	75	25	85	25	85	35	120	44	150	50	170	75	255	75	255	125	145
36	122	42	145	43	145	55	190	70	240	80	275	110	375	120	410	200	680
50	170	59	200	61	210	75	255	96	330	110	375	145	495	165	565	275	940
64	220	76	260	79	270	95	325	122	415	140	480	180	615	210	715	350	1195
78	265	93	315	97	330	115	390	148	505	170	580	215	735	255	870	425	1450
92	315	110	375	115	395	135	460	174	595	200	680	250	855	300	1025	500	1 705

m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h	m³/h	gal/h
12	3 170	15	3 963	12	3 170	15	3 963	12	3 170	13	3 434	15	3 963	15	3 963	20	5 283
4	1 057	5	1 321	4	1 057	5	1 321	4	1 057	5	1 321	4	1 057	5	1 321	10	2 642

kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi
10	1.5	14	2.0	12	1.7	18	2.6	19	2.8	22	3.2	7	1.0	7	1.0	12	1.7
3	0.4	5	0.7	4	0.6	6	0.9	5	0.7	7	1.0	2	0.3	3	0.4	9	1.3

55–75	75–90	90–160	140–280