

Applications

Where heat exchange between two different fluids is required e.g.

- production of hot water for domestic use
- heating of swimming pools (pools)
- solar systems
- air conditioning systems
- energy recovery.

Construction materials

Frame

- Steel, painted with double layer paint, red color

Plates - Nozzles

- AISI 316 or 316L stainless steel
- SMO, SS904L or Titanium
- For applications where water with increased chlorides is used (e.g. pool heating or thalassotherapy or use of water from offshore drilling).

Rubber gaskets

- EPDM (for normal uses)
- NBR (for food and oil)
- FKM (for high temperature steam)

Assumptions of temperatures (Ti) & pressure drop (ΔP)

For the alternators in the price list, the following assumptions have been made:

T1: Primary inlet temperature 80°C

T4: Primary outlet temperature 60°C

T3: Secondary inlet temperature 15°C

T2: Secondary outlet temperature 45°C

Pressure drop of exchanger circuits of about 2mYS.

Specifications

Maximum working / test pressure

ORZ-2: 16/21bar

M6/1: 16/21bar

ORZ-3: 16/21bar

M6/3: 16/21bar

ORZ-100: 10/13bar or 16/21bar depending on the type.

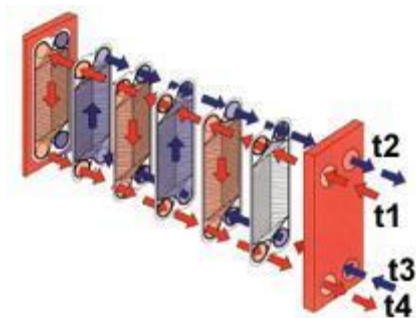
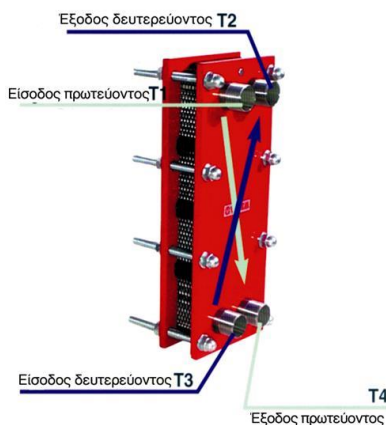
Maximum operating temperature

EPDM/NBR rubbers: 140°C/160°C

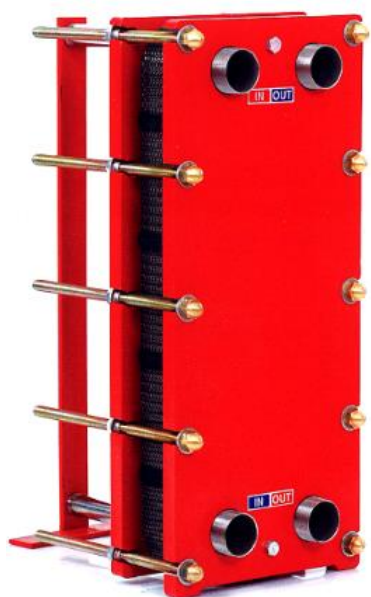
FKM tires: 200oC



ORZ 2, ORZ 3



ORZ 100, N6/1, N6/3



ORZ 3

Basic model nozzle diameter: DN50 (2")

- male thread S.S.316

Components ORZ-3

S.S.316 plate with EPDM rubber **Price € 44,00 €**

Titanium plate with EPDM rubber **upon request**

EPDM or NBR rubber (for oil)
Maximum temperature 140°C (160°C) **22,00 €**

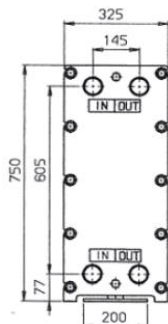
Rubber FKM-103 (for steam) **85,00 €**

Maximum temperature 200°C

Steel frame with 4 stainless steel nozzles **1950,00 €**

Steel frame with 4 stainless steel nozzles and 2 1/2" flange connection **2.250,00 €**

Steel frame with 2 stainless steel nozzles and 2 titanium nozzles 2" **upon request**



Dimensions

Hight (a) 750mm

Width (b) 325mm

Lenght (L) Depending on plates

Model ORZ - 3

Plates	Power (Kcal/h)	Exchange flow * (lit/h)		Price € INOX S.S.316	Titanium
		Side 1	Side 2		
11	90.000	4.500	3.000	2.020,00 €	
13	105.000	5.250	3.500	2.085,00 €	
15	120.000	6.000	4.000	2.150,00 €	
17	135.000	6.750	4.500	2.215,00 €	
19	155.000	7.750	5.170	2.280,00 €	
21	172.000	8.600	5.730	2.345,00 €	
23	190.000	9.500	6.330	2.410,00 €	
25	205.000	10.250	6.830	2.475,00 €	
27	222.000	11.100	7.400	2.540,00 €	
29	240.000	12.000	8.000	2.600,00 €	
31	255.000	12.750	8.500	2.670,00 €	
33	270.000	13.500	9.000	2.735,00 €	
35	285.000	14.250	9.500	2.800,00 €	
37	300.000	15.000	10.000	2.860,00 €	
39	315.000	15.750	10.500	2.925,00 €	
41	330.000	16.500	11.000	2.990,00 €	
43	345.000	17.250	11.500	3.055,00 €	
45	360.000	18.000	12.000	3.120,00 €	
47	375.000	18.750	12.500	3.185,00 €	
49	390.000	19.500	13.000	3.250,00 €	
51	405.000	20.250	13.500	3.310,00 €	
53	415.000	20.750	13.830	3.380,00 €	
55	430.000	21.500	14.330	3.445,00 €	
57	445.000	22.250	14.830	3.505,00 €	
59	460.000	23.000	15.330	3.570,00 €	
61	470.000	23.500	15.670	3.640,00 €	
63	485.000	24.250	16.170	3.700,00 €	
65	495.000	24.750	16.500	3.770,00 €	
67	510.000	25.500	17.000	3.830,00 €	
69	520.000	26.000	17.330	3.895,00 €	
71	535.000	26.750	17.830	3.960,00 €	
73	545.000	27.250	18.170	4.025,00 €	
75	555.000	27.750	18.500	4.090,00 €	
77	565.000	28.250	18.830	4.150,00 €	
79	580.000	29.000	19.330	4.220,00 €	
81	590.000	29.500	19.670	4.280,00 €	
83	600.000	30.000	20.000	4.350,00 €	
85	610.000	30.500	20.330	4.420,00 €	

Prices and delivery time on request

* The above calculations are indicative for:

T1: 80°C, **T4:** 60°C (Side 1)

T3: 15°C, **T2:** 45°C (Side 2)

Pressure drop max.2,5mYΣ.

Please contact us for a detailed calculation