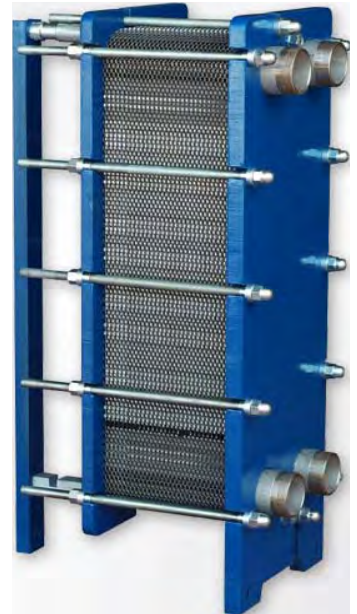


Corrugated Plate Heat Exchangers



Application and uses for Heat Exchangers:

- Production of domestic hot water (hotels, hospitals, sports facilities etc).
- Heating and district heating with various sources of energy
- Pool water heating (also sea water pools)
- Exchange and recovery of heat in industrial plants
- Heating and production of domestic hot water from solar panels
- Pasteurization of beverages (milk, wine, beer, etc.)
- Air conditioning
- Heat pumps (water, etc.)
- Heating with radiator panels
- Steam: heating and hot water

Materials of Construction:

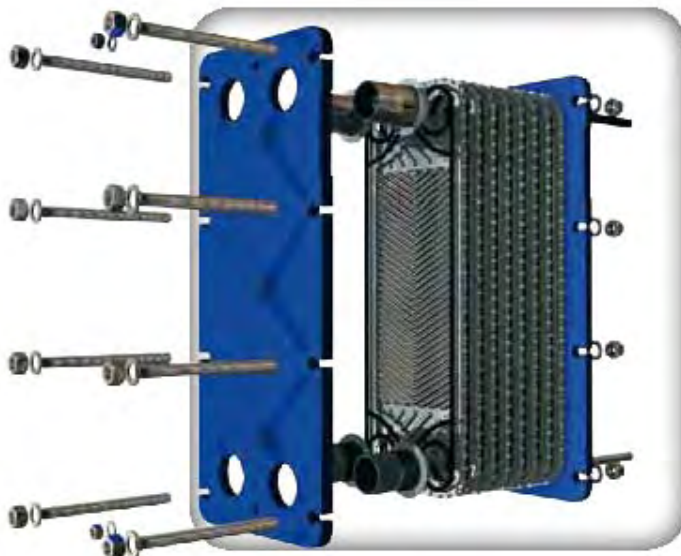
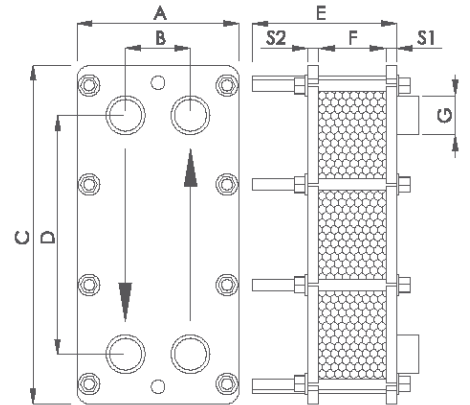
- **Frame:** Carbon Steel (Standard), AISI 304, 316 Stainless Steel
- **Plates:** AISI 304, 316 Stainless Steel
- **Gaskets:** NBR, EPDM, FKM
- **Connections:** Carbon Steel, Stainless Steel

Corrugated Plate Heat Exchanger

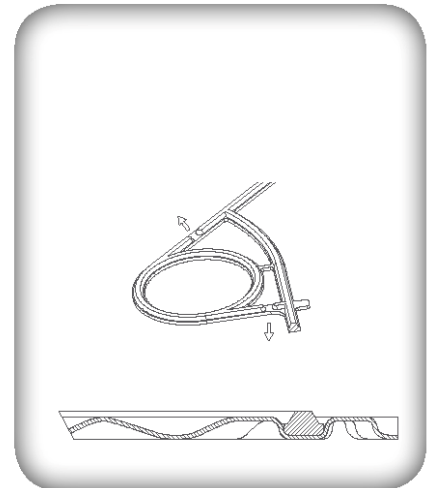
Corrugated Plate



TSC Range



Sealing arrangement



Components that make up the TSC Corrugated Plate



TESTING

Hydraulic Testing is performed according to the Pressure Table below.

Design Pressure (bar)	Safety Coefficient	Test Pressure (bar)
6	1,43	8,6
10		14,3
16		22,9

CORRUGATED PLATE HEAT EXCHANGERS

Features:

- Plates modulate the exchange efficiency and pressure drops optimising the parameters of both circuits (variable thermal lengths).
- Gaskets securely spot fixed around the plate perimeter provide safety and ability to reach the absolute differential pressures.
- Maintenance and replacements gaskets are easily and quickly achieved.
- Heat exchangers can be supplied with jackets for hot and super heated waters.

Nominal Pressure	A	B	C	D	E-max	F	G	H	S1/S2	Plate Surface (m ²)	Channel Volume (Lit)	Plate Weight (Kg)	Weight of Frame (Kg)	Clamping Bolts (No)
TSC 510														
TSC 510 PN 10	204	86	490	381	290	n x 2.65	1¼"		14/12	0.048	0.102	0.29	25	8 x M12
TSC 510 PN 16	214	86	490	381	290	n x 2.65	1¼"		18/14	0.048	0.102	0.29	31	8 x M16
TSC 910														
TSC 910 PN 10	204	86	840	657	735	n x 2.65	1¼"	128.5	14/12	0.091	0.168	0.49	42	12 x M12
TSC 910 PN 16	218	88	840	657	735	n x 2.65	1¼"	128.5	18/12	0.091	0.168	0.49	60	12 x M16
TSC 1410														
TSC 1410 PN 10	312	140	963/1003	690	960	n x 3.5	DN 50 (65)	185	20/20 (25/20)	0.169	0.425	0.8	135	12 x M16
TSC 1410 PN 16	320	140	963/1003	690	960	n x 3.5	DN 50 (65)	185	25/25 (30/25)	0.169	0.428	0.8	170	12 (14) x M20
TSC 2410														
TSC 2410 PN 10	455	230	1091	720	2000	n x 3.10	DN 100	200	30/30	0.224	0.583	1.35	285	10 x M20 4 x M20
TSC 2410 PN 16	468	230	1091	720	2000	n x 3.10	DN 100	200	40/35	0.224	0.583	1.35	360	10 x M24 4 x M20
TSC 4810														
TSC 4810 PN 10	455	230	1735	1364	2000	n x 3.10	DN 100	200	30/30	0.4871	1.11	2.4	475	16 x M20 4 x M20
TSC 4810 PN 16	468	230	1735	1364	2000	n x 3.10	DN 100	200	40/35	0.4871	1.11	2.4	565	16 x M24 4 x M20
TSC 4510														
TSC 4510 PN 10	582	296	1394	973	2010	n x 3.10	DN 150	225	40/35	0.425	1.1	2.4	540	12 x M24 4 x M24
TSC 4510 PN 16	600	296	1394	973	2010	n x 3.10	DN 150	225	50/45	0.425	1.1	2.4	700	12 x M30 4 x M24
TSC 8110														
TSC 8110 PN 10	582	296	1994	1573	2010	n x 3.10	DN 150	225	40/35	0.756	1.75	3.6	765	16 x M24 4 x M24
TSC 8110 PN 16	600	296	1994	1573	2010	n x 3.10	DN 150	225	50/45	0.756	1.75	3.6	1000	16 x M30 4 x M24
TSC 4410														
TSC 4410 PN 10	763	396	1367	776	1960	n x 3.10	DN 200	262.5	45/40	0.4025	1.274	2.4	730	8 x M30 4 x M30
TSC 4410 PN 16	773	396	1367	776	1960	n x 3.10	DN 200	262.5	60/50	0.4025	1.274	2.4	930	8 x M36 x 3 4 x M30
TSC 7110														
TSC 7110 PN 10	763	396	1737	1146	1965	n x 3.10	DN 200	262.5	50/45	0.57	1.82	3.4	1030	10x M30 4 x M30
TSC 7110 PN 16	773	396	1737	1146	1965	n x 3.10	DN 200	262.5	65/55	0.67	1.82	3.4	1300	10 x M36 x 3 4 x M30
TSC 9910														
TSC 9910 PN 10	763	396	2127	1536	1965	n x 3.10	DN 200	262.5	50/45	0.963	2.4	4.5	1330	12 x M30 4 x M30
TSC 9910 PN 16	773	396	2127	1536	1965	n x 3.10	DN 200	262.5	65/55	0.963	2.4	4.5	1720	12 x M36 x 3 4 x M30

Frame: Carbon Steel (Standard), AISI 304, 316 Stainless Steel

Plates: AISI 304, 316 Stainless Steel

Gaskets: NBR, EPDM, FKM

Connections: Carbon Steel, Stainless Steel