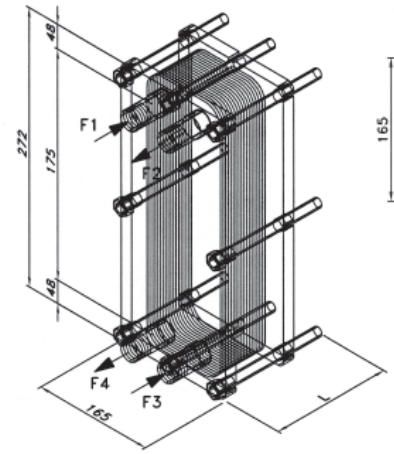
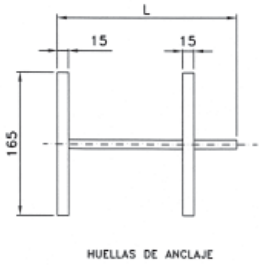
Plate Heat Exchangers - Series S1

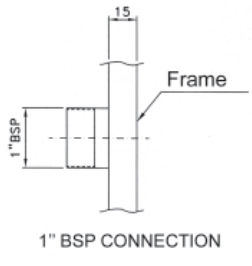
Serialised Units designed to meet a wide range of duties in industrial, marine and HVAC installations. These series are of rugged design consisting of a steel frame fastened with bolts and a plate pack with rubber gaskets in between to provide tightness and circuit separation.. The plates can be in site expanded if process conditions required so. Plate Heat Exchangers are an excellent option when space savings are required while good heat transfer is kept. Fouling is minimal thanks to the vertical position of the plates thus ensuring minimal maintenance costs.

MAWP: 16 Kgs/cm2* MAWT: 130ºC * Max Flow Rate: 50 c.m (S7) * Max. plate surface: 3.80 sq.m * PED 97/23/CE under Category I and fluids Group II* Test Pressure in accordance with applicable code *

Dimensions



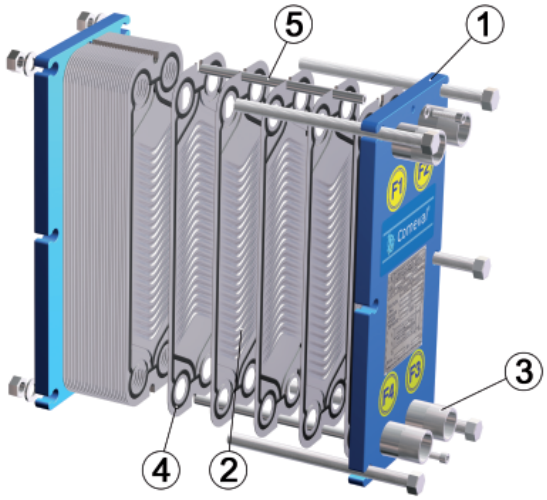




L = 100mm up to 17 Plates
L = 200mm from 21 to 36 Plates

The Heat exchangers S1 can be provided with a number of plates from 9 to 36 units. There are two standard widths depending on the number pf plates assembled. The frame dimensions are standardised to the indicated below and are independent of the plates number. This sketch must be understood as reference only, tailor made drawings for approval can be drawn by our design section on request.

Plate thickness: 0.5 mm
F1 Inlet connection: 1" threaded BSPP
F4 Outlet connection: 1" threaded BSPP
F3 Inlet connection: 1" threaded BSPP
F2 Outlet connection: 1" threaded BSPP



Parts and Materials

Part	Name	Material
1	Frame	Carbon Steel (painted)
2	Plates	St. Steel AISI 316
3	Screwed Connections	St. Steel AISI 316
4	Gaskets	NBR or EPDM
5	Plates Guides	St. Steel AISI 316

Selection Chart

The suitable standard unit can be selected out of the below listed models and serves as a quick guidance. The chart has been based on the following parameters:
Primary Circuit: Steam / Hot Water Inlet temp. 85ºC – Outlet temp. 69ºC
Secondary Circuit: Water Inlet Temp. 15ºC – Outlet Temp. 50ºC

Type	Duty (Kcal/h)	Flow Rate-I (m3/h)	ΔP-I (bar)	Flow Rate-II (m3/h)	ΔP-II (bar)	Surface (m2)
S1-9TLA	23.000	1,56	0,16	0,66	0,041	0,12
S1-12TLA	35.000	2,38	0,17	1	0,057	0,16
S1-15TLA	46.000	3,13	0,22	1,32	0,053	0,22
S1-17TLA	57.023	3,88	0,246	1,64	0,062	0,25
S1-21TLA	68.000	4,64	0,242	1,95	0,06	0,30
S1-24TLA	79.000	5,39	0,245	2,27	0,06	0,35
S1-28TLA	90.054	6,14	0,25	2,59	0,07	0,45
S1-33TLA	101.000	6,89	0,26	2,9	0,061	0,50
S1-36TLA	112.000	7,64	0,275	3,22	0,067	0,55

P-I: Pressure Drop in Primary Circuit
P-II: Pressure Drop in Secondary Circuit

Other units to comply with different performances on request.