

CA-TS Packaged Plate Heat Exchangers

- **Compact**
- **Flexible**
- **Low Maintenance**
- **Instantaneous Domestic Hot Water**

Typical Plate & Skid arrangement

consists of:

- 1) INOX Plate Heat Exchanger
- 2) 3 Way Regulating valve
- 3) Primary Circulating Pump
- 4) Air Vent
- 5) Safety Valve
- 6) Check Valve
- 7) High Limit Thermostat
- 8) Control Cabinet
- 9) Painted Frame



DOMESTIC HOT WATER PRODUCTION

CA-TS Units are designed to produce hot water instantaneously. Providing a fast reacting response to hot water demands from a single tap to the more demanding needs set by bath and shower runs.

The principle is simple, well proven and extremely cost effective. These heat exchangers are constructed around an epoxy coated chassis which contains the stainless steel plates separated by gaskets, enabling an increase in the output capacity at a later date.

High heat transfer rates are achieved by:

- **Counter-flow operation** – passing the fluids in opposite directions through adjacent channels between the plates
High heat transfer coefficients – the corrugations cause high turbulence
- **Low thermal resistance** – use of corrosion resistant materials (i.e., stainless steel, titanium etc) combined with the inherent strength of the corrugated plates mean that only relatively thin plates are needed
- **Efficient use of heat transfer surfaces** – almost all the plate surface is involved in heat transfer, minimising cost



ANTI-LEGIONELLA CARE

CA-TS Models for Domestic Hot Water (DHW) are supplied with a programme to manage weekly Anti-Legionella disinfection cycles with an option to increase to a daily function. A sensor will enable malfunction or failure to complete a cycle via an acoustic alarm and also panel display.



SWIMMING POOL HEATING

The **CA-TS AQUA SPLASH** Models are used for heating swimming pools. Titanium plates are used in these applications because of the aggressive salty water passing through the plates.



CA-HVAC **TS** Models

For the Production of Instantaneous Domestic Hot Water

Our Instant Hot Water Systems are designed to heat domestic hot water (DHW) using low temperature hot water (LTHW).

Our standard range is designed for outputs from 20 kW to 600 kW based on heating DHW from 10°C to 65°C using LTHW at 82°C. Alternatively kW duties or temperatures can be quoted on request.

Each system is delivered fully assembled and tested to ensure easy installation. On site work required is limited to connection of the LTHW and DHW flows and returns and the provision of power.

Our Range - Based on a LTHW temperature of 75°C raising the secondary side from 10 to 50°C.






Based on:		Primary Side 75 – 50°C		Secondary Side 10 - 50°C		Connection Sizes		
Duty (kW)	Model	L/Hr	kPa	kPa	L/Hr	Primary On - Off	Secondary On - Off	Recirc
20	TSC 510 P7 HH	688	35	2	430	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
25	TSC 510 P7 HH	860	23	3	538	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
35	TSC 510 P7 HH	1204	19	5	753	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
45	TSC 510 P9 HH	1548	18	5	968	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
55	TSC 510 P9 HH	1892	10	7	1183	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
60	TSC 510 P9 HH	2064	20	8	1290	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
65	TSC 510 P11 HH	2236	18	6	1398	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
75	TSC 510 P11 HH	2580	20	8	1613	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
85	TSC 510 P13 HH	2924	13	7	1828	BSP 1"- BSP 1"	BSP 1"- BSP 1"	BSP ¾"
100	TSC 510 P13 HH	3440	12	10	2150	DN40 - BSP 1"	BSP 1"- BSP 1"	BSP ¾"
120	TSC 510 P15 HH	4128	11	11	2580	DN40 - BSP 1"	BSP 1"- BSP 1"	BSP ¾"
150	TSC 510 P17 HH	5160	24	13	3225	DN40 – BSP 1¼"	BSP 1"- BSP 1"	BSP ¾"
180	TSC 510 P21 HH	6192	21	12	3870	DN40 – BSP 1¼"	BSP 1"- BSP 1"	BSP ¾"
210	TSC 510 P23 HH	7224	15	13	4515	DN40 – BSP 1½"	BSP 1¼"-BSP1¼"	BSP 1"
180	TSC 1410 P11 HH	6192	40	13	3870	BSP 1½"- BSP1½"	BSP 1½"- BSP 1½"	BSP 1"
210	TSC 1410 P13 HH	7224	27	13	4515	BSP 1½"- BSP1½"	BSP 1½"- BSP 1½"	BSP 1"
240	TSC 1410 P15 HH	8256	11	12	5160	BSP 1½"- BSP1½"	BSP 1½"- BSP 1½"	BSP 1"
270	TSC 1410 P15 HH	9288	21	15	5805	DN40 - BSP1½"	BSP 1½"- BSP 1½"	BSP 1"
300	TSC 1410 P17 HH	10320	16	14	6450	DN40 - BSP1½"	BSP 1½"- BSP 1½"	BSP 1"
330	TSC 1410 P19 HH	11352	13	14	7095	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
350	TSC 1410 P19 HH	12040	23	15	7525	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
380	TSC 1410 P21 HH	13072	15	15	8170	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
410	TSC 1410 P23 HH	14104	28	14	8815	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
440	TSC 1410 P23 HH	15136	28	16	9460	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
470	TSC 1410 P25 HH	16168	25	16	10105	DN40 – BSP 2"	BSP 1½"- BSP 1½"	BSP 1¼"
500	TSC 1410 P25 HH	17200	14	17	10750	DN40 – BSP 2½"	BSP 1½"- BSP 1½"	BSP 1¼"
530	TSC 1410 P27 HH	18232	11	17	11395	DN40 – BSP 2½"	BSP 2"- BSP 2"	BSP 1½"
560	TSC 1410 P27 HH	19264	12	18	12040	DN50 – BSP 2½"	BSP 2"- BSP 2"	BSP 1½"
600	TSC 1410 P31 HH	20640	10	16	12900	DN50 – BSP 2½"	BSP 2"- BSP 2"	BSP 1½"

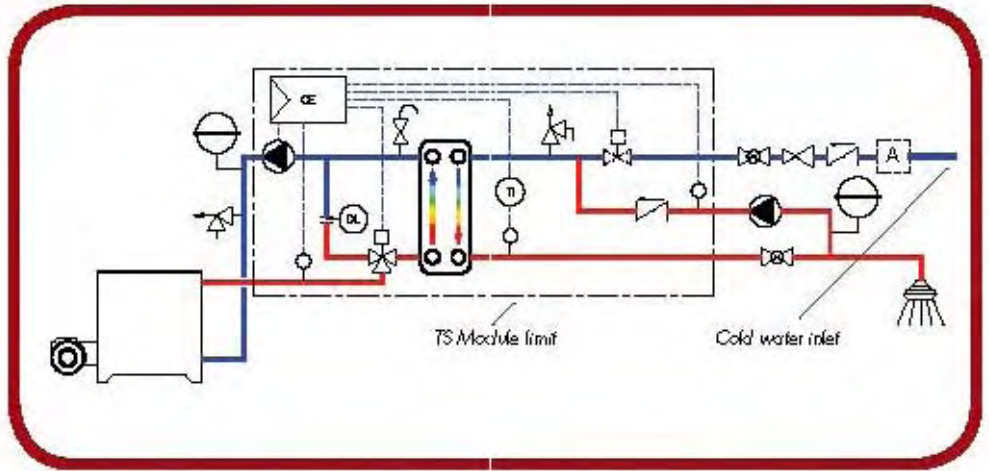
Useful Data & Information:

- Proposed Duty in kW
- Primary Medium & Flow Rates
- Pressure Drop Capacity
- Secondary Medium & Flow Rates








INSTALLATION DIAGRAMS

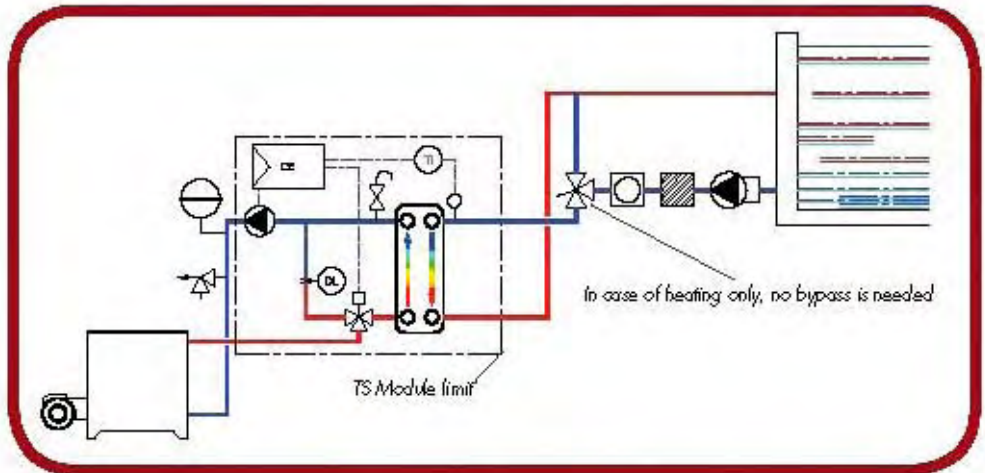
LEGEND

-  - Plate Heat Exchanger
-  - Bypass Valve
-  - Control Cabinet
-  - Air Vent
-  - Safety Valve










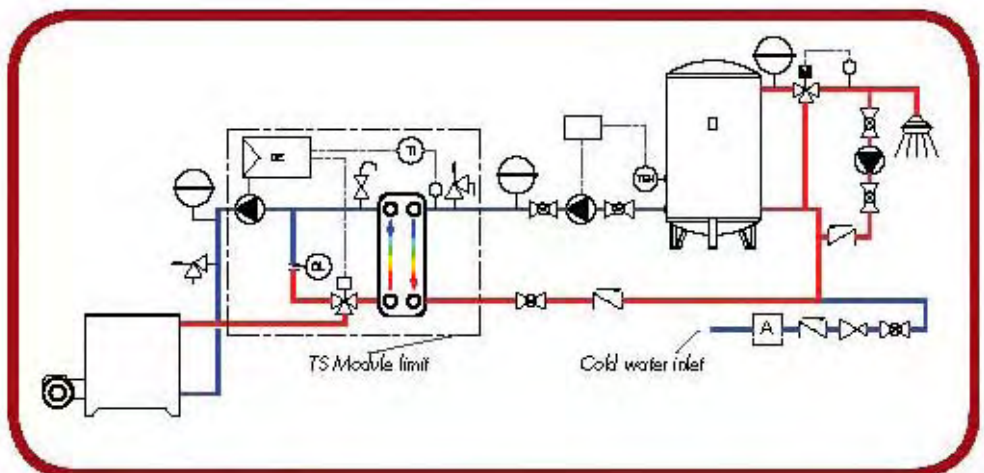
Domestic Hot Water Production

-  - Temp Sensor
-  - Check Valve
-  - Pump
-  - Ball Valve
-  - Expansion Valve
-  - Filter Pump
-  - Boiler



Swimming Pool Heating Water

-  - Filter
-  - Sensor
-  - Thermostat
-  - Divertor Valve
-  - Modulating Valve
-  - Mixing Valve
-  - Radiator



Domestic Hot Water Production with Anti Legionella Cycles