

Central Heating (LTHW) & Cooling (CHW) Heat Exchangers



Heat Pumps - Instantaneous Central Heating Plate Heat Exchangers



Alfa Laval - High Efficiency Central Heating Brazed Plate Heat Exchangers - 78 oC Secondary Flow Temperature



Alfa Laval Central Heating Plate Heat Exchangers (85°C Primary Temperature)

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Alfa Laval Central Heating Plate Heat Exchangers (80 oC Primary Temperature)

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Heat Exchangers Enquiry

Central Heating (CH)

Thank you for your enquiry, please provide all your contact details below so we can return your Quotation and Drawings as quickly as possible.

Company Name:

Name:

Telephone Number:

Email:

Project Name:

Please provide a brief description of the intended use of the PHE and any restrictions in the Duty, Pressure or Dimensions that may need to be considered when designing your Plate Heat Exchanger:

Message:

PDF Attachments

No file chosen

SECONDARY (COLD) SIDE DUTIES

Please do not worry if you do not have all the duties at this stage as we will ask for any important technical information required to design the perfect Plate Heat Exchanger for your Central Heating (LTHW) Project.

Fluid Type (Water etc):

Flow Rate L/s:

Temperature Flow In oC:

Temperature Flow Out oC:

Max Pressure Drop KPA:

System Pressure Bar:

KW Available On Site:

PRIMARY (HOT) SIDE DUTIES

Please do not worry if you do not have all the duties at this stage as we will ask for any important technical information required to design the perfect Plate Heat Exchanger for your Central Heating (LTHW) Project.

Fluid Type (Water etc):

Flow Rate L/s:

Temperature Flow In oC:

Temperature Flow Out oC:

Max Pressure Drop KPA:

System Pressure Bar:

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When looking at the design of an AEL LTHW Central Heating (CH) Plate Heat Exchanger for a Hotel , Hospital , Residential property etc the core principle of the design tends to be the same (or very similar) with the Primary hot water circuit from a Boiler or another Primary heat source having a Flow and Return temperatures of 80 oC returning at 60 oC which in turn heats the LTHW system side Central Heating circuit from 57 oC to 77 oC.

The Primary Hot and the Secondary Cool circuits cannot have identical temperatures but a 3 degree differential is quite acceptable to design an Alfa Laval LTHW Plate Heat Exchanger.

If the system design duties are not available from site in the early stages of an enquiry, then assuming the Primary Flow and Return Temperatures are 80 >60 oC and the Secondary Temperatures are 57> 77 oC is a good starting point for Quotation purposes, these can be changed later if required.

AEL LTHW Central Heating (CH) Plate Heat Exchangers can be supplied on a skid with a Techno System Control Panel c/w Valves and Primary Pump etc or as an Alfa Laval Plate and Gasket Plate Heat Exchanger or as an Alfa Laval Brazed Plate Heat Exchanger unit controlled elsewhere via a BMS System.

In practice the both types of LTHW Central Heating (CH) Plate Heat Exchanger tend to follow the same principle of the Hot Primary Circuit heating the Cooler Secondary circuit to as close to the Primary Hot Water Temperatures as possible.



Authorized Distributor



HEAT EXCHANGERS UK

Telephone: 0151 336 8837 for Technical Assistance

AEL Only Supply High Quality Plate Heat Exchangers & Associated Equipment That Are Manufactured In Europe & The UK To European & British Standards.

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