arbe
Integrated Engineering

Product Guide

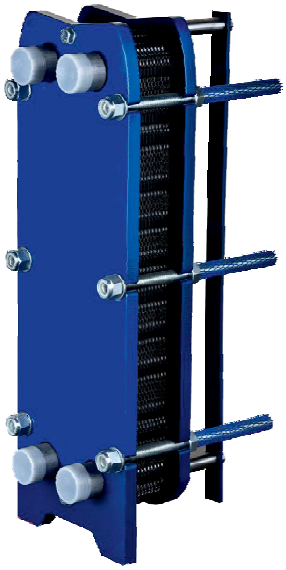
HEAT EXCHANGER SOLUTIONS

APS GASKETTED PLATE HEAT EXCHANGERS

Inventive Engineering

Integrated Engineering

Plate Heat Exchangers



Arbe Integrated Engineering offer a range of heat exchangers for various applications in various forms. Our APS range of plate heat exchangers offer the perfect heat transfer solution giving optimum performance and high quality products. High performance plate heat exchangers consist of a number of formed, sealable heat exchanger plates. The alternating pressed plate sequence cause highly turbulent flow behaviour, optimal self-cleaning effect and high heat transfer. We have many years experience in the design and supply of heat exchangers, as stand-alone items or as a packaged unit supplied with integral equipment and controls, such as pumps, control valves and factory wired control panels.

Our complete expertise in the industry guarantees that our products will fulfill your requirements with our design excellence and high quality products.

Primary Heat Sources

We have products to suit every primary heating medium including:

LTHW / LPHW – Primary circuits with a maximum temperature of 85-90°C

MTHW – Primary circuits with a maximum temperature of 120°C

HTHW – Primary circuits with a water temperature above 150°C

Steam – To suit steam pressures up to 20 BarG (requiring specialised controls by Arbe)

Condensate – Condensate drains from other steam equipment can be used to preheat water and also can cool condensate down to workable levels

Waste Heat – Heat from processes such as CHP or flue gases can be utilised to heat domestic water, either as a preheat or if the heat load and temperatures are sufficient, as the primary heat source

Solar – Heat from solar thermal panels, from either secondary or primary fed circuits - see our solar brochure for further details

Secondary Heat Sources

DHW – Secondary circuits with a maximum temperature of 65°C, suitable for potable water systems. Higher temperatures would not be recommended in potable water systems unless for process applications such as wash down

LTHW / LPHW – Primary circuits with a maximum temperature of 85-90°C

MTHW – Primary circuits with a maximum temperature of 120°C

Insulation

Our plate heat exchangers can be supplied with either insulation boxes or bags.

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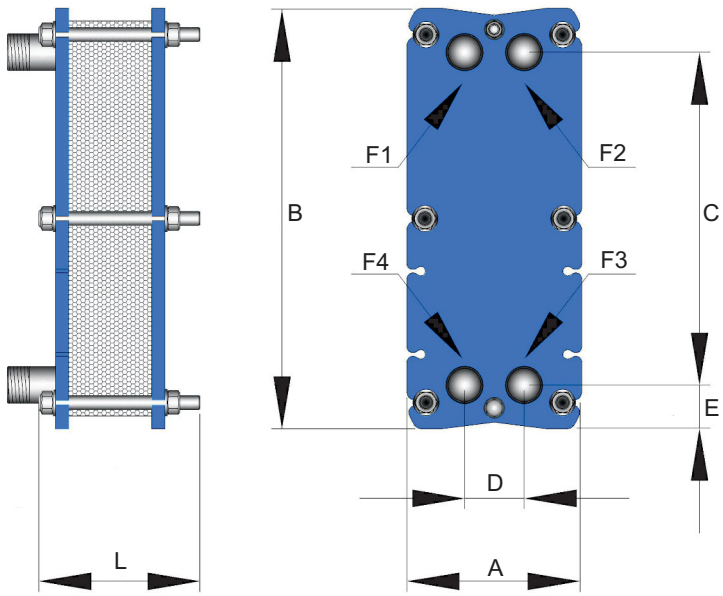
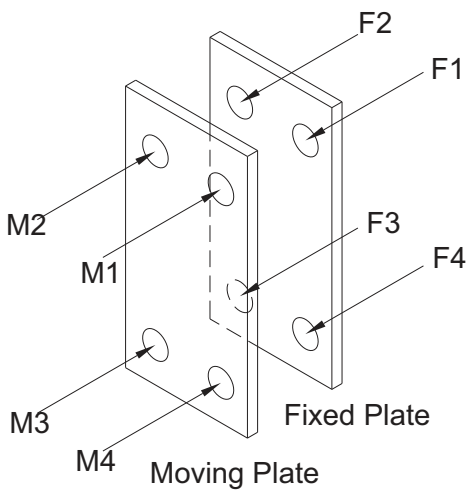
Plate Heat Exchangers

Model	Dimensions (mm)					Connection Size	Maximum Length L mm
	A	B	C	D	E		
APS032-460	200	460	381	70	40	1.1/4" BSP	750
APS032-740	200	736	656	70	40	1.1/4" BSP	750
APS050-600	283	596	394	126	130	2" BSP	1000
APS050-900	283	896	694	126	130	2" BSP	1000
APS050-1100	283	1096	894	126	130	2" BSP	1000
APS050-1110	345	1105	800	150	160	2" BSP	1200
APS065-630	395	626	380	192	132	DN65 PN10/16	1200
APS065-950	395	946	700	192	132	DN65 PN10/16	1200
APS065-1300	395	1296	1050	192	132	DN65 PN10/16	1200
APS100-1075	480	1069	719	225	200	DN100 PN10/16	1900
APS100-1075	480	1069	719	225	200	DN100 PN10/16	1900
APS100-1420	480	1415	1065	225	200	DN100 PN10/16	1900
APS100-1720	480	1715	1365	225	200	DN100 PN10/16	1900
APS100-2125	480	2121	1771	225	200	DN100 PN10/16	1900
APS100-1420	460	1418	1070	238	200	DN100 PN10/16	1630
APS150-1450	608	1450	890	296	275	DN150 PN10/16	2300
APS2150-1450	608	1450	890	296	275	DN150 PN10/16	2300
APS150-1855	608	1852	1292	296	275	DN150 PN10/16	2300
APS150-2255	608	2254	1694	296	275	DN150 PN10/16	2300
APS150-2655	608	2654	2094	296	275	DN150 PN10/16	2300
APS200-1405	770	1403	791	395	314	DN200 PN16	3300
APS200-1705	770	1703	1091	395	314	DN200 PN16	3300
APS200-2105	770	2101	1489	395	314	DN200 PN16	3300
APS200-2510	770	2505	1891	395	314	DN200 PN16	3300
APS200-2810	770	2805	2191	395	314	DN200 PN16	3300
APS200-3710	770	3705	3091	395	314	DN200 PN16	3300
APS250-1555	875	1552	860	448	362.5	DN250 PN16	3300
APS250-2220	875	2219	1527	448	362.5	DN250 PN16	3300
APS250-2760	875	2756	2054	448	362.5	DN250 PN16	3300
APS400-2180	1260	2177	1410	660	400	DN400 PN16	3200
APS400-2670	1260	2667	1901	660	400	DN400 PN16	3200
APS400-3470	1260	3467	2701	660	400	DN400 PN16	3200





Welcome to Arbe Integrated Engineering

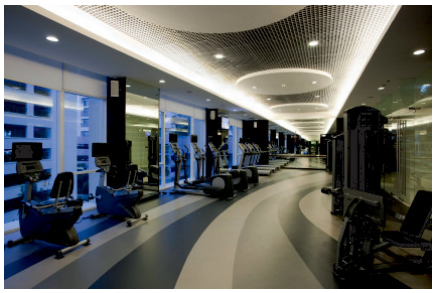
Arbe Integrated Engineering offer a range of products and services for the HVAC building services industry, ranging from bare heat exchangers and storage cylinders to fully packaged plantrooms and associated equipment. With over 20 years of design experience, our design and technical team can offer a complete solution for a wide range of project requirements.

Seamless Integration:
With our next generation range of equipment, our products offer complete integration with renewable and future energies, ensuring all available energy is utilised, reducing fossil fuel usage. In addition, our HevaSys products offers a unique next generation range of equipment with integral BMS style controls that can be adapted to any installation and can provide a standalone management system for buildings where the heating and hot water generation is relatively small, such as a leisure centre or a school.

Inventive Engineering:
In addition to our standard equipment, including heat exchangers, storage calorifiers and packaged solutions, we also design and manufacture bespoke equipment to end user or consultant specifications and we carry out extensive research and development to invent new products and enhance current designs.

Application Solutions:
With our complete range of products, we have solutions to cover most applications. With our ability to carry out complete bespoke design, we have a solution for each and every project requirement. Our end users include:

- Hotels
- Schools
- Universities
- Leisure Centres & Gyms
- Hospitals



Products Include:

Calorifiers
Indirect Cylinders
Direct Cylinders
Thermal Stores
Pressure Vessels
Plate Heat Exchangers
Brazed Heat Exchangers
Shell & Tube Exchangers
Heat Exchanger Packages

TwinHeat DHW/LTHW Systems
Gas Fired Calorifiers
Boilers & Associated Equipment
Packaged Boiler Houses
Packaged Plant Rooms
Solar Energy Packages
Heat Pumps
Booster Sets & Pressurisation
Bespoke Engineering Packages

Suitable for Heating Systems
Suitable for Potable Systems
Suitable for Chilled Systems
Suitable for Steam Systems
Suitable for Renewable Systems
Suitable for Boosted Water Systems

Key to product Suitability

arbe Integrated Engineering

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