

PPS Packaged Plate Semi-Storage

Packaged Plate Heat Exchangers for DHW Systems



The Adveco PPS is a range of packaged plate heat exchanger systems from 100 to 600 kW designed to operate with a stainless steel buffer vessel to provide a high-capacity source of domestic hot water to a building.

Supplied pre-assembled on a metal skid base, the Adveco PPS comprises of a high-quality gasketed stainless steel plate heat exchanger with integrated pumps, controls, valves, and all pipework and fittings.

A 24 Volt controls system includes a digital LED display to show system temperature and set point, temperature controllers, volt-free contacts for BMS fault and enable signals, and a twin-pump changeover timer for applicable systems.

The Adveco PPS range is WRAS approved and is suitable for use with systems up to 99°C and 6-10 bar working pressure.

STANDARD FEATURES

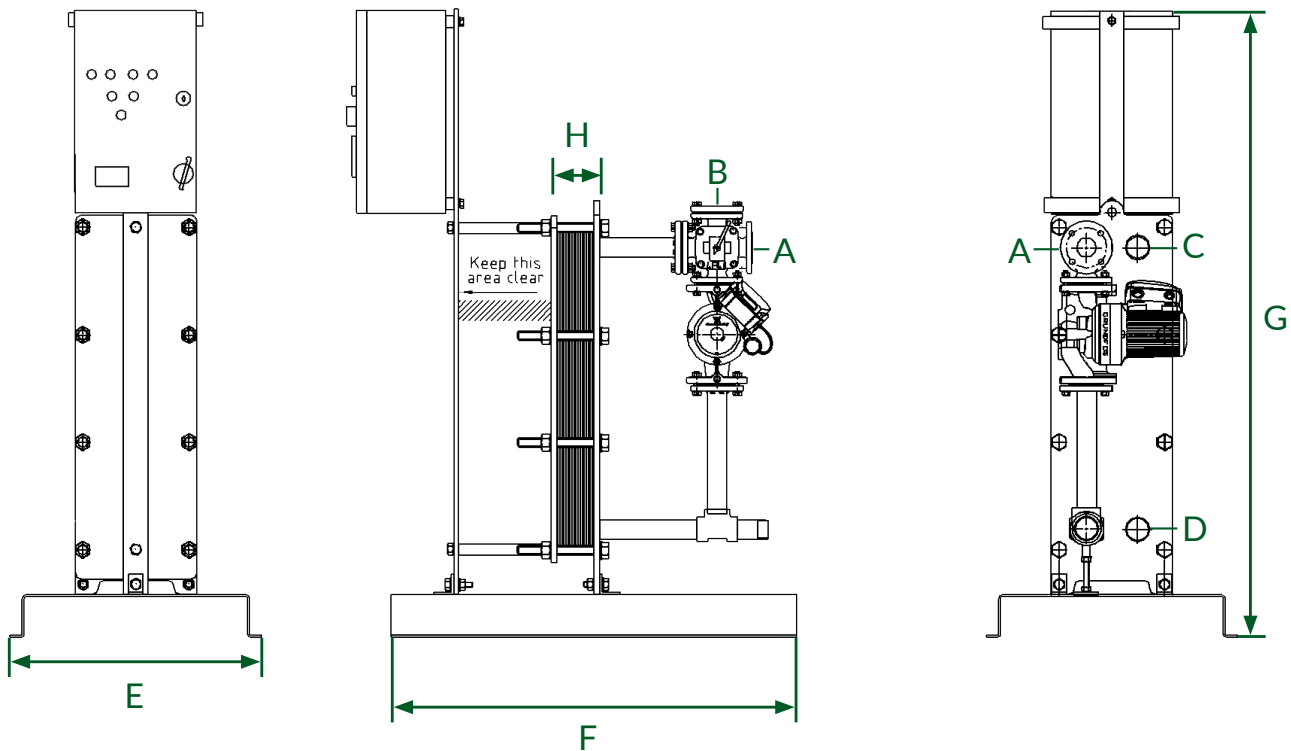
- Primary pumps with activation and changeover controls
- AISI 316 single wall stainless steel plate construction
- 10 bar working pressure for units up to 400 kW. 6 bar working pressure from 500 kW and above.
- EPDM clip-on gaskets
- 4 port modulating control valve with electric actuator
- Digital temperature controller
- Non-self-resetting overheat protection
- Removable insulation jacket
- Plate to buffer DHW shunt pump
- Output demand signal to primary heat source

AVAILABLE OPTIONS

- Single (-S) or twin-head (-T) pump systems
- Alternative control panel orientations to suit installation layout
- Storage vessels available from 200 to 6000 litres

PRACTICAL, EFFICIENT & SUSTAINABLE
BUILDING SERVICES SOLUTIONS





Technical Specifications

Model PPS	PPS-100S PPS-100T	PPS-150S PPS-150T	PPS-200S PPS-200T	PPS-300S PPS-300T	PPS-400S PPS-400T	PPS-500S PPS-500T	PPS-600S PPS-600T
Heat Transfer	80°C 100	150	200	300	400	500	600
Duty (kW)	75°C -- 70°C 83	-- 127	-- 162	-- 242	260 --	315 --	379 --

Dimensions & Connections

A - From primary (inch)	1.25" BSPT F	1.25" BSPT F	1.25" BSPT F	1.25" BSPT F	1.50" PN6 FLANGED	1.50" PN6 FLANGED	1.50" PN6 FLANGED
B - To primary (inch)	1.25" BSPT F	1.25" BSPT F	1.25" BSPT F	1.25" BSPT F	1.50" PN6 FLANGED	1.50" PN6 FLANGED	1.50" PN6 FLANGED
C - Secondary In (mm)	1.25" BSPT M	1.25" BSPT M	1.25" BSPT M	1.25" BSPT M	2.00" BSPT M	2.00" BSPT M	2.00" BSPT M
D - Secondary Out (mm)	1.25" BSPT M	1.25" BSPT M	1.25" BSPT M	1.25" BSPT M	2.00" BSPT M	2.00" BSPT M	2.00" BSPT M
E - Base width (mm)	560	560	560	560	620	620	620
F - Base depth (mm)	1000	1000	1000	1000	1000	1000	1000
G - Total height (mm)	1530	1530	1530	1530	1541	1541	1541
H - Plate compression dimension* (mm)	Max. 47 Min. 46	70 68	81 78	112 108	-- --	80 77	86 83
Dry assembly mass† (kg)	-S: 113 -T: 131	116 135	119 137	124 142	186 207	191 212	193 218

*The plate assembly is set by a compression dimension as opposed to a tightening torque value. The plates should seal upon compression to the "maximum" value. Plate assemblies should not be tightened beyond the minimum compression dimension.

†Assembly mass includes all components except the secondary pump and secondary pipework beyond the 4-port valve.