

## Instant Hot Water Systems

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 50 kW to 2,000 kW based on heating DHW from 10°C to 65°C using LTHW at 82°C. Alternative 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 connection of LTHW and DHW flows and returns and provision of power.

### Features

The standard unit is equipped with the following:

- Gasketed Plate Heat Exchanger with AIS 316 stainless steel plates.
- Primary LTHW circulating pump to pump LTHW through the heat exchanger.
- 4 port control valve with electric actuator to control the flow of LTHW into the heat exchanger.
- Temperature sensor on DHW outlet.
- Temperature controller with LED display of DHW temperature and set point temperature.
- Control panel.
- High limit thermostat with manual reset button and indication light that turns the primary pump off in the event that the DHW goes over-temperature.
- Base frame.

### Options

The following options are available:

- Time clock to turn the unit on and off at preset times.
- Twin head primary LTHW circulating pump.
- Secondary DHW circulating pump.
- Volt free contacts to enable connection to BMS system including on/off input, common fault, system and pump running signals.
- 4—20 mA output of DHW temperature.
- 240 v switched output for boiler control.

### Energy Saving

To save energy the following can be supplied:

- A limit switch installed in the 4 port valve that turns the primary pump off when there is no demand for DHW.
- The heat exchanger can be equipped with a Flexi-Wrap Insulation Jacket that can easily be removed for heat exchanger maintenance.



Output Range — Based on a LTHW temperature of 82°C heating DHW 10°C to 65°C

Model No	DHW Flow l/s	Duty (kW)	Model No	DHW Flow l/s	Duty (kW)
UKE-8-50	0.22	50	UKE14-800	3.51	800
UKE8-100	0.44	100	UKE14-850	3.73	850
UKE8-150	0.66	150	UKE14-900	3.94	900
UKE8-200	0.88	200	UKE14-950	4.16	950
UKE8-250	1.10	250	UKE14-1000	4.38	1000
UKE8-300	1.32	300	UKE19-1100	4.82	1100
UKE8-350	1.53	350	UKE19-1200	5.26	1200
UKE14-400	1.75	400	UKE19-1300	5.70	1300
UKE14-450	1.97	450	UKE19-1400	6.14	1400
UKE14-500	2.19	500	UKE19-1500	6.58	1500
UKE14-550	2.41	550	UKE19-1600	7.02	1600
UKE14-600	2.63	600	UKE19-1700	7.46	1700
UKE14-650	2.85	650	UKE19-1800	7.88	1800
UKE14-700	3.07	700	UKE19-1900	8.32	1900
UKE14-750	3.29	750	UKE19-2000	8.76	2000



Our range of UKE-8 & UKE-14 Packaged Plate Heat Exchangers are approved by the Water Regulations Advisory Scheme (WRAS)

Certificate No: 1401039

### Other Products from UK Exchangers Ltd

- Brazed Plate Heat Exchangers
- Air to Air Heat Exchangers
- Finned Tube Coils
- Fan Assisted Air Heaters
- Steam to Water Packaged Units
- All stainless steel Shell & Coil Exchangers
- Heat Transfer Panels



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