

## Instant Hot Water Systems

Allcool London Limited's Instant Hot Water System is the modern efficient way to heat domestic hot water. The package is supplied as a self contained unit ready for connection to the primary and secondary circuits.

The system is based on a high efficiency Gasketed Plate Heat Exchanger that instantly heats domestic hot water using low temperature hot water (LTHW).



The domestic hot water temperature is controlled via a temperature sensor on the outlet and a modulating valve.

An integral primary pump is provided to circulate the LTHW through the exchanger.

The control panel is equipped with a temperature controller, pump hand/off/auto switch, indication lights and mains isolator.

A high limit thermostat is provided for safety with a manual reset button.

### Advantages

- Compact design
- Energy saving
- Anti-bacterial function
- Easy to install
- Low maintenance
- Stratification eliminated
- Frost protection

Our standard range of units is designed for outputs from 50 to 1000 kW, based on heating water from 10 to 65°C.

The heating medium is LTHW at 82°C. Alternative duties & temperatures can be quoted for on request.

In addition, we have a range of units that utilise steam as the heating medium. Please contact us for further details.





## Technical Specification

### Standard Components

- Gasketed Plate Heat Exchanger with AISI 316 stainless steel plates.
- 4 port valve c/w actuator
- Temperature sensor
- Temperature controller
- High limit thermostat with manual reset
- Control panel
- Primary circulating

### Options

- Time clock
- Twin head primary circulating pump
- secondary circulating pump
- Pump duty cycling module & auto pump change over
- Volt free contacts to enable connection to BMS

The following table gives brief details of our range Instant Hot Water Systems heating water from 10°C to 65° using LTHW at 82°C. We can also offer individually designed units for higher or lower LTHW temperatures.

Model No	Flow l/s 10°C to 65°C	Duty (kW)	Model No	Flow l/s 10°C to 65°C	Duty (kW)
UKE8-50	0.22	50	UKE14-550	2.41	550
UKE8-100	0.44	100	UKE14-600	2.63	600
UKE8-150	0.66	150	UKE14-650	2.85	650
UKE8-200	0.88	200	UKE14-700	3.07	700
UKE8-250	1.10	250	UKE14-750	3.29	750
UKE8-300	1.32	300	UKE14-800	3.51	800
UKE8-350	1.53	350	UKE14-850	3.73	850
UKE8-400	1.75	400	UKE14-900	3.94	900
UKE8-450	1.97	450	UKE14-950	4.16	950
UKE8-500	2.19	500	UKE14-1000	4.38	1000

### **Other Allcool London Limited Products**

- Gasketed Plate Heat Exchangers
- Brazed Plate Heat Exchangers
- Finned Tube Coils
- Corrugated Tube-in-Tube Exchangers

For further information on our full range of products and services please contact **Martin Cotton on 07525 730 709**

### **Allcool London Limited**

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