

# TECHNICAL PRODUCT SUBMITTAL



## Range

### LOKT packaged Plate Heat Exchangers

Heat transfer duty – kW	150.0
Thermal efficiency – %	98
Flow rate, Primary LTHW side – l/s	0.97
Design inlet temperature, Primary LTHW side – °C	82
Design outlet temperature, Primary LTHW side – °C	45
Pressure drop, Primary LTHW side - kPa	22.14
Flow rate, Secondary DHW side – l/s	0.73
Design inlet temperature, Secondary DHW side – °C	10
Design outlet temperature, Secondary DHW side – °C	65
Pressure drop, Secondary DHW side - kPa	11.64
Recovery Rate @ 50°C Δt – l/hr	2614
Recovery Rate @ 50°C Δt – l/s	0.73
Dimensions (height) – mm	1430
Dimensions (width) – mm	560
Dimensions (depth) – mm	1036
Number of Plates	25
Effective heat transfer area - m <sup>2</sup>	1.93
Primary LTHW side connection size - inches BSP Rc (Internal taper)	1¼
Secondary DHW side connection size - inches BSP R (External taper)	1¼
Weight empty – kg	135
Max design temperature – °C	100
Max working pressure – bar	6.0

## Model

### LOKT8-150

Lochinvar **LOKT** series packaged plate heat exchangers are designed for domestic hot water production. Each model within the range contains a series of plates constructed from grade 316L stainless steel which are gasketed together via clip-on nitrile gaskets. The plate assembly is housed within a painted steel frame with a compact foot print.

The unit is designed to heat domestic hot water (DHW) using low temperature hot water (LTHW). The twin headed primary circulating shunt pump mounted on the unit is for heat exchanger control only and is sized to pump the correct volume of LTHW through the heat exchanger to ensure efficient operation. One pump head is used at a time with auto changeover built into the integrated control panel.

Temperature control of the plate heat exchanger is via pipework mounted sensors which modulate the integrated 4 port valve via the unit mounted electronic control system.

Lochinvar **LOKT** series packaged plate heat exchangers can be used in conjunction with a water storage vessel such as the Lochinvar LST range. The EV 2-65-Z bronze pump will be required to circulate water between the storage vessel and plate heat exchanger.

Water supply quality may adversely affect the efficiency and performance of plate heat exchangers and hot water systems. This situation can intensify where higher temperature or demands exist.

It is **essential** to treat / soften the DHW prior to heating to reduce the build up of scale in the heat exchanger. Consult with a water treatment specialist to determine the best method of treatment for the water in your area.

Regular inspection and de-scaling should be undertaken as part of a responsible service regime.

The Lochinvar **LOKT** series Packaged plate heat exchangers have several ancillary options available, **These need to be specified at the point of ordering as each plate heat exchanger is built to order:**

- FW 08: Flexi wrap insulation jacket.
- BMS 1: Remote on/off.
- BMS 2: Common fault signal for Single Pump.
- BMS 3: Common fault signal for Twin Pump.

Full warranty terms and conditions are available at [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

*Lochinvar Ltd reserves the right to change specifications without prior notice.*  
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