

# LOKE packaged plate heat exchangers



- Hot water recovery rates up to 4316 litres/hour at a 50°C temperature rise
- Designed for instantaneous production of hot water
- Plates constructed from 316l stainless steel
- Simple plug and play control
- Compact footprint
- Working with a 75/40 flow/return temperature during demand keeps the associated Boiler(s) in condensing mode for as long as possible



**Lochinvar**<sup>®</sup>  
HIGH EFFICIENCY BOILERS & WATER HEATERS

# Lochinvar

## LOKE low cost simple packaged plate heat exchangers

Nine models are available providing instantaneous hot water up to 4316 litres hour based upon a 50°C temperature rise.

For applications subject to heavy peak demands we can also supply direct storage vessels in either enamelled steel with capacities from 300 to 2850 litres or stainless steel with capacities from 300 to 1000 litres.

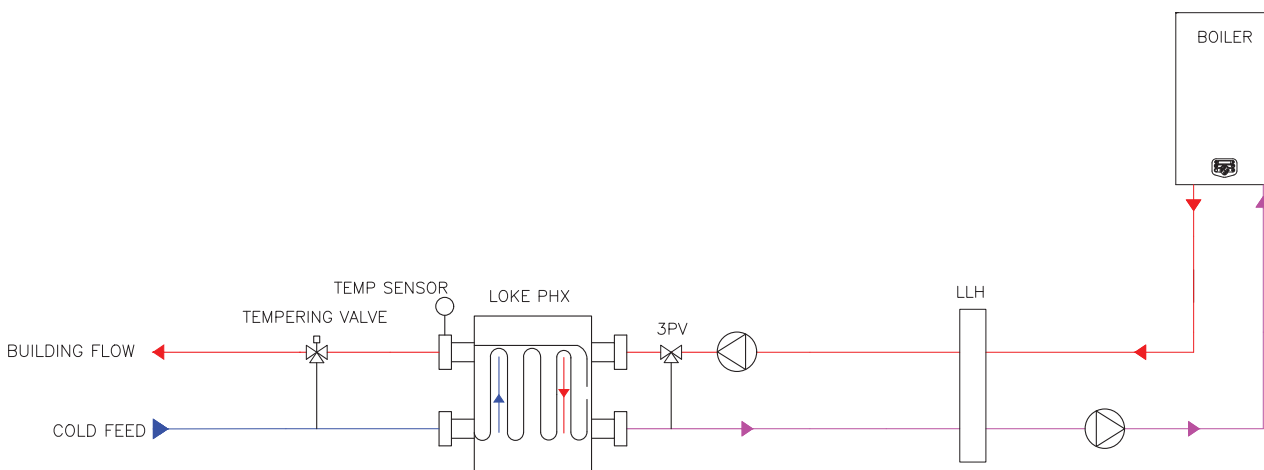
LOKE units feature a simple plug and play three port control valve, using a sensor on the hot water outlet from the plate the control valve accurately monitors the outlet temperature to ensure an even supply of hot water.



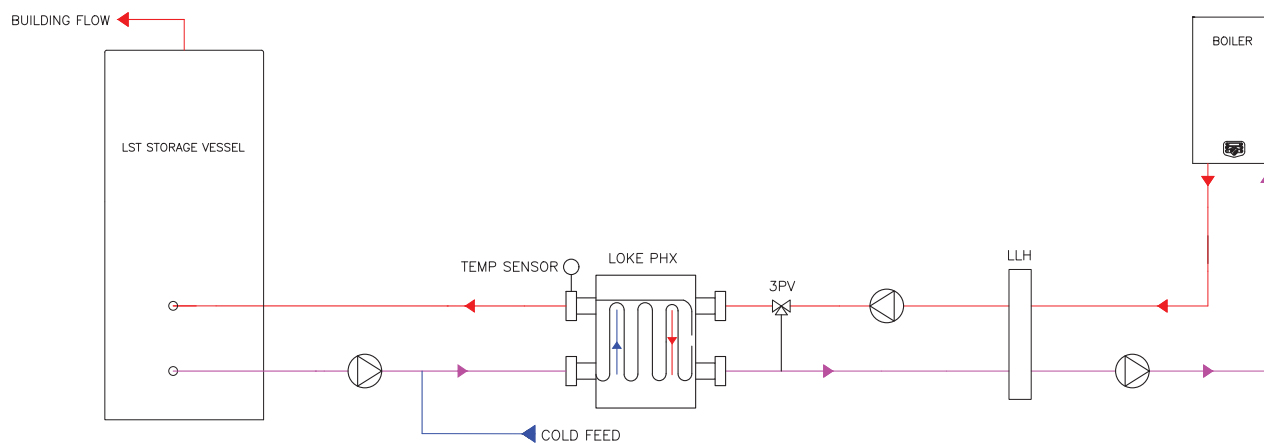
Control valve

### Typical schematic drawings

EcoKnight water heaters and storage vessel combinations provide a great deal of installation flexibility with multiple water heater/storage vessel options available to cover a wide range of water heating requirements

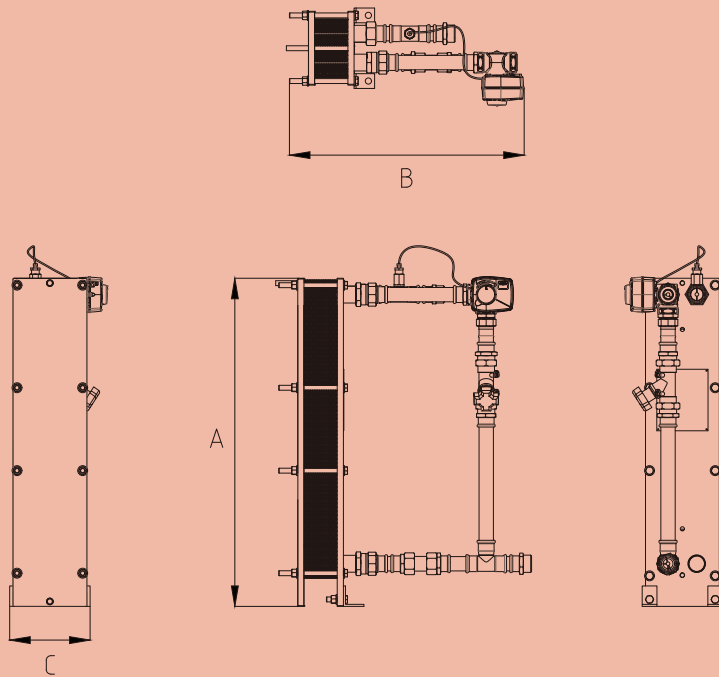


Typical scheme LOKE working on instantaneous demand



Typical scheme LOKE with buffer storage vessel

## Dimensional drawing

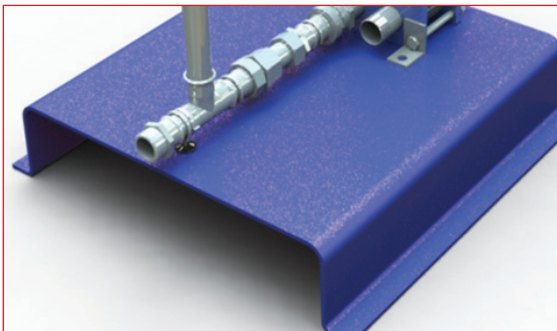


## Product Dimensions

			Unit	Dimension
A	Height	Excluding optional base	mm	835
B	Depth		mm	710
C	Width		mm	196
A	Height	Including optional base	mm	965
B	Depth		mm	800
C	Width		mm	620

## Ancillary options

- Steel base
- Flexiwrap insulation jacket
- Unvented system kits
- Direct storage vessel with matched circulating pump



LOKE steel base



LOKE flexiwrap insulation



## Technical specification

Model		LOKE8-50	LOKE8-75	LOKE8-100	LOKE8-125	LOKE8-150	LOKE8-175	LOKE8-200	LOKE8-225	LOKE8-250
Heat transfer duty	kW	50	75	100	125	150	175	200	225	250
Thermal efficiency	%	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
<b>Primary side</b>										
Inlet temperature	°C	75	75	75	75	75	75	75	75	75
Outlet temperature	°C	Variable (40 at full demand)								
Fluid flow rate	litre/sec	0.34	0.51	0.68	0.85	1.03	1.2	1.37	1.54	1.71
Pressure drop	bar	0.21	0.28	0.27	0.31	0.28	0.3	0.33	0.35	0.38
Connection size	Inch	1"	1"	1"	1"	1½"	1½"	1½"	1½"	1½"
Max working temperature	°C	100	100	100	100	100	100	100	100	100
Maximum working pressure	bar	10	10	10	10	10	10	10	10	10
<b>Secondary side</b>										
Inlet temperature	°C	Variable (10 At Full Demand)								
Outlet temperature	°C	65	65	65	65	65	65	65	65	65
Fluid flow rate	litre/sec	0.22	0.33	0.43	0.54	0.65	0.76	0.87	0.98	1.09
Pressure drop	bar	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.11
Connection size and type	Inch	1"	1"	1"	1"	1½"	1½"	1½"	1½"	1½"
Max working temperature	°C	95	95	95	95	95	95	95	95	95
Maximum working pressure	bar	10	10	10	10	10	10	10	10	10
<b>General data</b>										
Recovery rate @ 50°C	l/hr	871	1307	1703	2138	2574	3010	3445	3881	4316
Recovery rate @ 55°C	l/hr	792	1188	1548	1944	2340	2736	3132	3528	3924
Dimensions (height without base)	mm	835	835	835	835	835	835	835	835	835
Dimensions (width without base)	mm	196	196	196	196	196	196	196	196	196
Dimensions (depth without base)	mm	710	710	710	710	710	710	710	710	710
Empty weight	kg	53	65	67	69	70	72	74	77	79
Electrical requirements		230V /1Ph/ 50hz								



For further information on the LOKE plate heat exchanger, including ICM & user instructions and our full warranty terms and conditions, please visit our website: [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)



Lochinvar Ltd reserves the right to change specifications without prior notice