

TTW+

GAS-FIRED WATER HEATER

Lochinvar's most powerful commercial water heater range



KEY FEATURES

- 316L stainless steel heat exchanger
- Seasonal efficiency up to 92.5%
- Full modulation up to 8:1
- Cascade up to 16 water heaters
- Easy placement with lifting lugs and side access of a forklift
- Certified for NG & LPG



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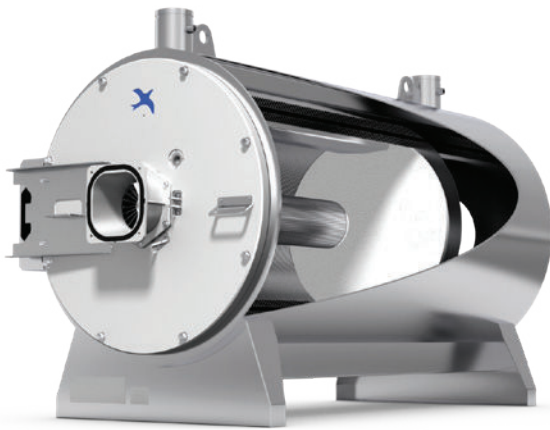
Lochinvar TTW+ Gas-Fired Water Heater

The Lochinvar TTW+ is our **most powerful gas-fired condensing water heater range** to date, delivering outputs up to 1133kW from a single appliance.

Designed for large commercial and industrial applications, TTW+ combines exceptional efficiency, advanced controls and robust 316L stainless steel heat exchanger technology to provide dependable high-capacity heating performance.



TTW+ water heater
4 models



Advanced Heat Exchanger

The TTW+ utilises a 316L stainless steel water tube heat exchanger featuring increased coil size and double-row coil construction. This design promotes efficient heat transfer, supports high seasonal efficiencies and delivers long-term reliability in demanding commercial applications.

Product Features

- Suitable for natural gas or LPG
- Integral controls
- Easy placement with lifting lugs and side access for a forklift
- 316L stainless steel heat exchanger for long-term durability and corrosion resistance.
- Integrated cascade functionality allowing up to 16 water heaters to operate as a single plant solution, improving resilience and part-load efficiency.
- Easy installation and maintenance

Integrated Controls

- 7" graphical touchscreen
- Modbus connectivity
- Cascade management
- Weather compensation
- Data logging
- Fault history
- BMS compatibility
- Remote monitoring capability



Typical Applications

The TTW+ is a powerful work horse, designed for the most demanding industrial applications due to its uncompromising high power, high output. The TTW+ is ideal for the following applications:

- Hospitals
- Healthcare estates
- Universities
- Education campuses
- Hotels
- Leisure centres
- Industrial process heating
- Manufacturing facilities
- Commercial developments
- Multiple occupancy buildings



Why Choose TTW+?

The TTW+ range has been developed to meet the demands of large commercial and industrial heating applications, delivering exceptional outputs from a single appliance. Combining high efficiencies, advanced controls and robust stainless steel heat exchanger technology, TTW+ provides a dependable and flexible heating solution for projects where performance, reliability and ease of integration are critical.

- Wide modulation range
- Flexible installation options
- Building management integration
- Suitable for demanding commercial applications

Installation & Serviceability

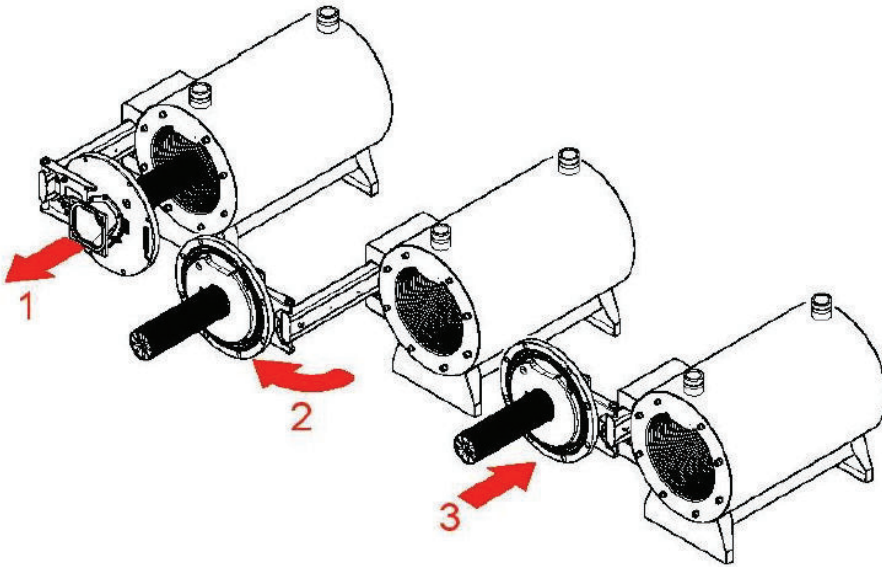
Designed with installers and maintenance engineers in mind, the TTW+ range incorporates features that help simplify transportation, positioning, commissioning and routine servicing. Thoughtful access arrangements and integrated lifting provisions help reduce installation complexity while ensuring convenient access for ongoing inspection and maintenance throughout the product's operational life.

- Front access with removable panels for ease of maintenance
- Simplified servicing
- Clear service clearance guidance

Design Considerations

Service Clearances

When installing a TTW+ water heater special consideration should be made to the required service clearances detailed in the manual. The burner door for the heat exchanger is on a hinge which requires sliding forward before opening. Failure to adhere to the required service clearances will result in the unit being unserviceable which could affect the warranty.



Unvented Kits

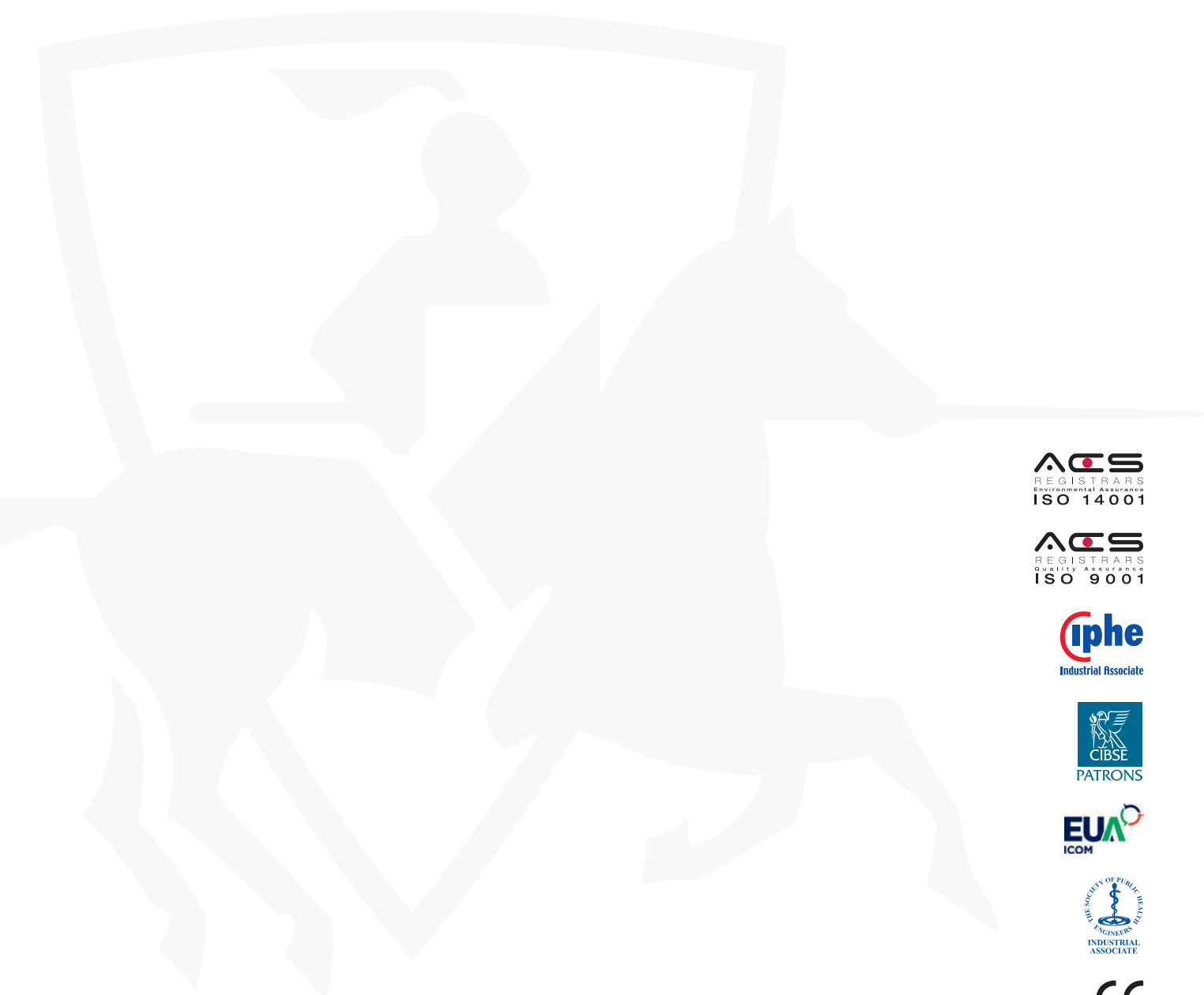
In order to comply with Building regulations approved document G3 for domestic hot water applications a suitable sized unvented kit will need to be sourced and fitted. Due to the high output and recovery rates of this range it is unlikely that a prepacked unvented kit would be suitable. Please contact Lochinvar technical support who will be able to assist in the sizing and selection of this unvented kit.

Flue Systems

The TTW+ range has a positive pressure flue system. For a single water heater, the available combined pressure drop for the inlet and outlet system is 250 Pa for the complete range. The TTW+ range requires a flue to be designed, sized, and supplied by a third party flue specialist.

Technical Specifications

Model		TTB+375	TTB+625	TTB+875	TTB+1200
General data					
Nominal Input (Net) min-max	kW	51.4-360	85.0-600	122-850	138-1160
Nominal Input (Gross) min-max	kW	57.4-400	94.4-666	135-944	153-1288
Gas Flow Rate (Natural Gas) min-max	m³/hr	5.4-38.1	9.2-63.5	12.7-89.9	15.0-123
Nominal Output min-max @ 50-30	kW	54.0-378	90.9-631	126-893	145-1219
Nominal Output min-max @ 80-60	kW	50.2-352	84.5-586	117-830	135-1133
Efficiency data - Building regulations					
Seasonal Efficiency (Gross CV)	%	91.8	92.5	92.4	92.5
Efficiency data - ERP					
Ecodesign Energy Label rating		N/A	N/A	N/A	N/A
Water Heater efficiency	%	87.8	87.9	87.9	87.9
NO_x emissions					
NO _x emission (Weighted)@0% O ₂	mg/kWh	31.7	21.9	26.9	36.9
General data					
Recovery Rate @ 44°C	l/hr	7388	12334	17455	23828
Recovery Rate @ 50°C	l/hr	6502	10854	15361	20969
Recovery Rate @ 56°C	l/hr	5805	9691	13715	18722
Water Content	litres	41.5	61.5	130.9	171.4
Weight (Empty)	kg	490	600	1015	1330
Weight (Full)	kg	531.5	661.5	1145.9	1501.4
Flow Connection (Inches)	Victaulic	2½"	2½"	4"	4"
Return Connection (Inches)	Victaulic	2½"	2½"	4"	4"
Gas Connection (Inches)	BSP	2"	2"	2"	2"
Electrical Requirements	V/Hz	230/50-60	230/50-60	230/50-60	400/50-60
Power Consumption	W	450	1230	1030	2100
Max Outlet Temperature	°C	85	85	85	85
Maximum Working Pressure	bar	10	10	10	10



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Energy label, product fiche and ErP data table are available at www.lochinvar.ltd.uk
For further information on the TTW+ gas-fired water heaters, including ICM & user
instructions and our full warranty terms and conditions, please visit our website: www.lochinvar.ltd.uk



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