

Keston

BY IDEAL HEATING

KESTON HEAT 2

45kW & 55kW Output Natural Gas & LPG



Twin Flue
up to 18m*



Frame and Header
kit compatible



Weather
compensator



NOx Class 6



Modulating
pump



Wall hung



Built in, serviceable
Non-return valve



Easy to service with
three removable sides



Features & specification

Supported by a 5 year parts and labour warranty and Free Commissioning†, Keston Heat 2 is a reliable and efficient wall hung solution. The quality of this product range has been developed through meticulous design, careful component selection and proving; leading to reliability and longevity.

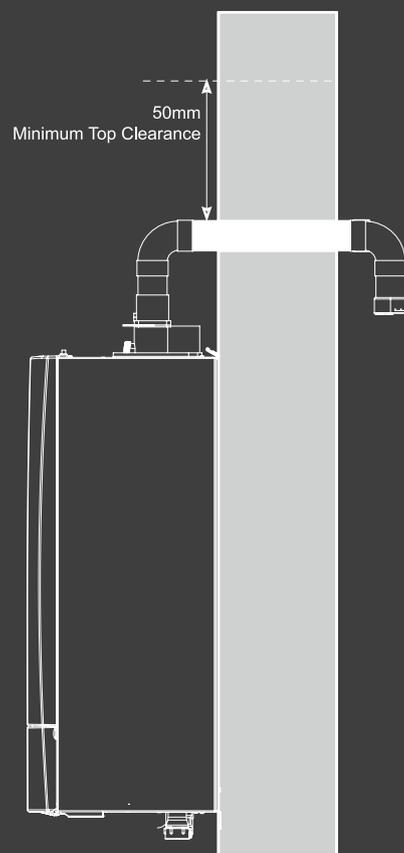
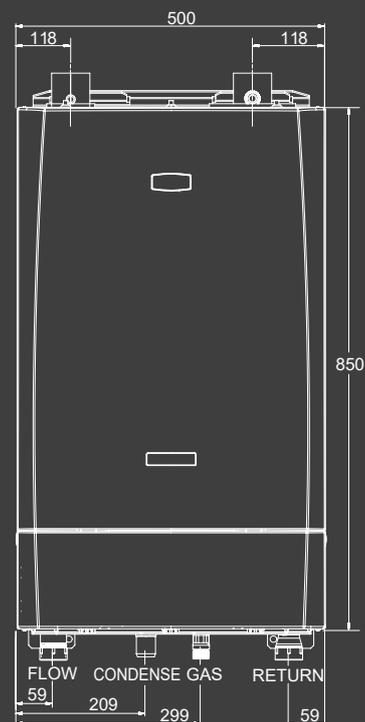
The range provides high efficiencies for both home and business owners, ensuring reduced running costs. This is coupled with low NOx emissions, giving Keston Heat 2 a Class 6 rating.

For Commercial installations, Keston Heat 2 are easy to cascade, with a choice of Frame heights and advanced optional cascade controls. Please note that Free Commissioning is not available on multiple (cascade) boiler installations.

THE FACTS

- 5 year warranty†
- Free Commissioning†
- Low NOx Class 6
- Inbuilt weather compensation
- Inbuilt pump (low energy modulating)
- Twin flue up to 18m*
- New Air Inlet Kit for Open Flue (B23) installation
- High 5:1 turndown
- Small installation footprint
- 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations**
- Cascade controls option
- Easy servicing with 3 removable sides
- Built in, serviceable Non-Return Valve

DIMENSION & CLEARANCES



† 2 year parts & labour warranty as standard. 5 year warranty available subject to being commissioned by Keston Boilers. Free Commissioning only available when a Keston 28mm System Filter is installed with a single Keston Heat 2 boiler; not available on multiple (cascade) boiler installations. Terms and conditions apply.* For maximum total equivalent flue length please refer to the installation instructions for full details. ** The only systems approved for this application are: Marley muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe System 2000 muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe Terrain Solvent Weld System (50mm) and Wavin Osma PVC-C Solvent Weld System (50mm). Please use the recommended Solvent Weld Cement for each system.

SPECIFICATION DATA

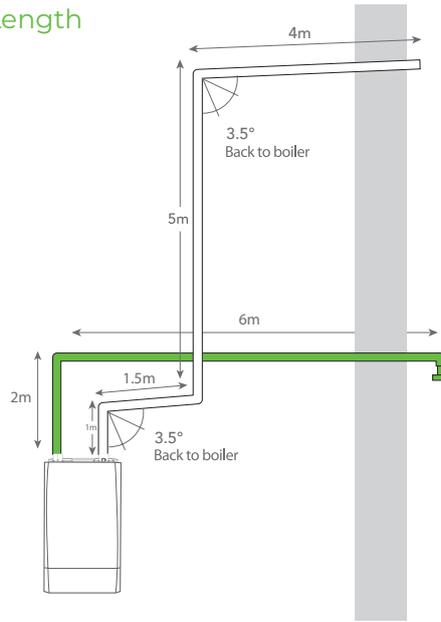
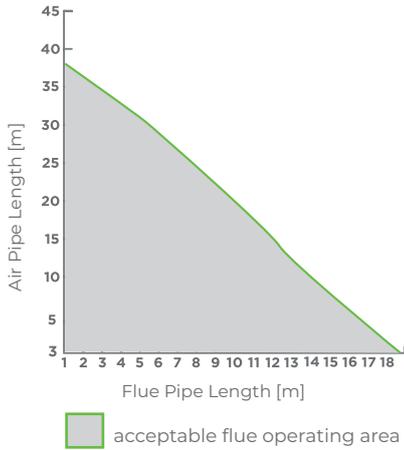
CENTRAL HEATING			45	45P	55	55P
Boiler Output (Non Condensing) Mean 70°C	Max	kW	42.6	42.6	52.1	52.1
	Min	kW	12.0	12.0	12.0	12.0
Boiler Output (Condensing) Mean 40°C	Max	kW	45.0	45.0	55.0	55.0
	Min	kW	12.7	12.7	12.7	12.7
Boiler Input Net	Max	kW	43.2	43.2	52.7	52.7
	Min	kW	12.2	12.2	12.2	12.2
Boiler Input Gross	Max	kW	47.9	47.9	58.5	58.5
	Min	kW	13.5	13.5	13.5	13.5
Gas Consumption / Rate	Max	m ³ /h	4.56	1.78	5.57	2.18
	Max	ft ³ /h	161.2	62.9	196.9	76.8
Flue Gas Flow Rate	Max	m ³ /h	65.8	68.03	80.6	83.71
	Max	ft ³ /h	2323.7	2402.5	2846.4	2956.2

OTHERS			45	45P	55	55P
Efficiency	Seasonal	%	96	96	96.7	96.7
	SEDBUK 2009	%	89.2	89.2	89.6	89.6
Seasonal Space Heating Efficiency Class			A	A	A	A
NOx	Weighted	mg/kWh	28.5	43.1	35.4	48.4
	Classification		Class 6	Class 6	Class 6	Class 6
CO ₂ (±0.5)	Max	%	9.5	10.8	9.7	10.7
	Min	%	8.7	9.9	8.7	9.9

GENERAL DATA		45	45P	55	55P
Max Horizontal Flue Length	m	21 Flue / 2 Air	13 Flue / 1 Air	17 Flue / 2 Air	17 Flue / 1 Air
Max Horizontal Flue Length (Parallel)	m	15 Flue / 15 Air	9.5 Flue / 9.5 Air	15 Flue / 15 Air	12.25 Flue / 12.25 Air
Flue Terminal Diameter	mm	50			
Gas Supply		2H - G20 - 20mbar	3P - G20 - 37mbar	2H - G20 - 20mbar	3P - G20 - 37mbar
Gas Supply Connection		G 3/4			
Flow Connection		G 1 1/4			
Return Connection		G 1 1/4			
Max Pressure (Sealed)	bar (psi)	6.0 (87.0)			
Maximum Static Head	m	61.0			
Electricity Supply		230V - 50Hz			
Fuse Rating	A	4.0			
Power Consumption	W	180	180	241	241
IP Rating		IP20			
Condensate Drain	mm	25			
Water Content	l	5.0			
Dry Weight	kg	60.10			

EXAMPLE FLUE INSTALLATION

Keston Heat 2 45 - Flue & Air Pipe Length



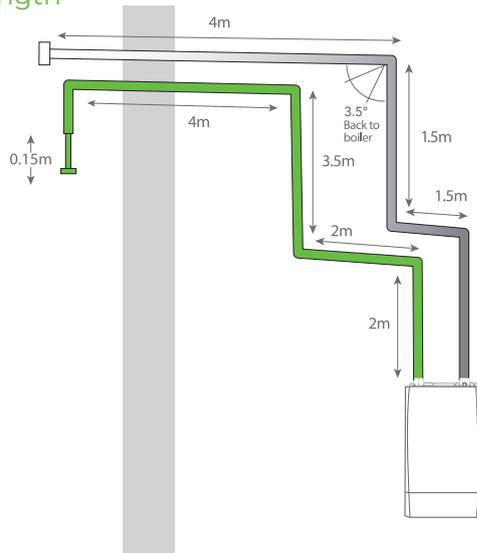
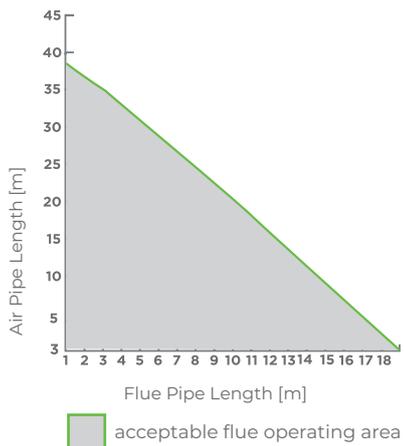
C53 HORIZONTAL

Calculations

Flue
Elbows 3 x 1m = 3m
Straights 4+5+1.5+1 = 11.5m
Total = 14.5m

Air
Elbows 2 x 1m = 2m
Straights 6+2+0.1m = 8.1m
Total = 10.1m

Keston Heat 2 55 - Flue & Air Pipe Length



C13 HORIZONTAL

Calculations

Flue
Elbows 3 x 1m = 3m
Straights 2.5+1.5+1.5+4 = 9.5m
Total = 12.5m

Air
Elbows 4 x 1m = 4m
Straights 2+2+3.5+4+0.15 = 11.65m
Total = 15.65m

DIMENSIONS

KESTON HEAT 2

Height	850mm
Width	500mm
Depth	360mm

The following minimum clearances must be maintained for operation and servicing.

Front of boiler - 450mm*

Sides of boiler - 25mm

Above boiler - 50mm above the flue

Below boiler - 300mm

Clearance between multiple boiler installations - 25mm

* Can be reduced to 5mm for cupboard fit, 450mm required for servicing.