

TWIN FLUE TECHNOLOGY EXPERTS

DESIGNED TO GO THE DISTANCE

f () in

British built since 2013

EVERYTHINGIS POSSIBLE





Providing ultimate reliability

Providing the perfect solution for difficult installations



British built since 2013 in our

DESIGNED TO WORK WITHOUT COMPROMISE

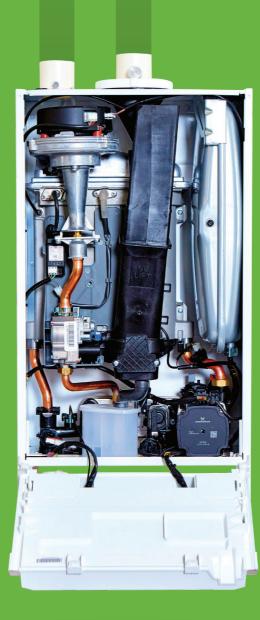
When you choose to work with Keston you can be confident that you're partnering with a British manufacturer that's supported by a dedicated national service team, delivering of 1.5° and the flue can be help and advice to you and your customers, 364 days a year.

Our rigorous research & development procedures and manufacturing quality control checks ensures that all of our products are produced to the highest of standards, delivering total comfort and peace of mind.

The Keston Twin Flue system makes every job easier. To give you maximum flue flexibility, you can run the flue vertically or horizontally from an elevation extended up to 27 metres from the boiler allowing for easy and hassle-free installation.

THE ULTIMATE SIMPLE FLUE SYSTEM

- Flexible flue positioning avoids pluming
- Widely available from plumbing and builders merchants
- Flue can be painted when installed internally and externally
- 50mm muPVC (PVC-C)* solvent weld allowing simple cost effective installation



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05 - Designed to work without compromise
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* 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 extern. Please are seen a 0 for the cent data its each system. Please see page 9 for more details. † Keston System and Combi: 5 year parts & labour warranty as standard. 7 year warranty when installe with a Keston 22mm System Filter and registered within 30 days of installation. 7 year warranty available until 31/12/20. Terms and conditions apply. Keston Hoat 2:2 was parts & labour warranty Available drift (1/2) ever parts & labour warranty as standard. 5 year warranty available subject to being commissioned by Keston Boilers. Free Commissioning only available when a Keston 28mr System Filter is installed with a single Keston Heat 2 boiler; not available on multiple (cascade) boiler installations. Terms and conditions apply nstallations. Terms and conditions apply

The Keston range includes both domestic and light commercial models which come complete with twin flue capability.

AKESTON CASIONS





Keston boilers are offered with a warranty of up to 7 years†, ensuring the ultimate peace of mind for both you and your customer. The Keston range is made up of Combi, Heat only and System boilers, offering a solution for all applications.

Every model in the range offers a market leading solution for awkward and problematic installations, thanks to the twin flue capability.

You can rest assured when choosing Keston as you will be supported by a national customer service team, offering support 7 days a week.



Keston boilers are available with warranties of up to 7

With Keston, your boiler can be situated any room, any place, anywhere - no compromise.

WHERE I DON'T WANT THE BOILER IN SIGHT



Images for illustrative purposes only. † Keston System and Combi: 5 year parts & labour warranty as standard. 7 year warranty when installed with a Keston 22mm System Filter and registered within 30 days of installation. 7 year warranty available until 31/12/20. Terms and conditions apply. Keston Heat 2: 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 2 Heat boiler; not available on multiple (cascade) boiler installations. Terms and conditions apply.

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WHERE THERE IS A LONG DISTANCE FROM BOILER TO OUTLET

The benefits of the

$\top \vee | \vee F | \cup E$ SYSTEMS

muPVC (PVC-C) pipe (Marley, Polypipe 2000 System, Polypipe Terrain 200 and Wavin Osma required for use with the innovative Keston flue and air intake system. This is readily available from your local merchant at a fraction of the cost of concentric flue.

job easier. To give you maximum flexibility, you can run the flue vertically or horizontally from an elevation of 1.5°) and the flue can be boiler allowing for easy and hasslefree installation.



Keston System 27m maximum flue length*



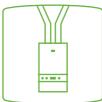
Keston Combi 27m maximum flue length*



Keston

Keston Heat 2 18m maximum flue length*





APPROVED FLUE PIPE SYSTEMS

When installing a replacement boiler a new flue system is recommended. However re-using the existing boiler flue installation is acceptable if the installer checks and confirms:

- \cdot The flue pipe is the approved Marley/Polypipe/Terrain/Wavin 50mm muPVC (PVC-C) solvent weld flue system
- The flue installation is upgraded to the most recent flue standards taking particular care to comply with flues in voids regulation
- A risk assessment is conducted to confirm the effectiveness of the flue
- The existing flue will last the lifetime of the new appliance



Individual air supply and flue outlet pipes are used as standard.

DESIGN

- The material approved for this application which MUST be used are:
- Marley muPVC Solvent Weld System (50mm)
- Polypipe System 2000 muPVC solvent weld (50mm)
 - Polypipe Terrain 200 muPVC Solvent Weld System (50mm)
 - Wavin OSMA PVC-C Solvent Weld System (50mm) to BS5255 and/or BSEN1566-11 and BSEN1329, are the only systems approved for this application.

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THE FOLLOWING PIPE AND FITTINGS ARE APPROVED:

Marley muPVC Solvent Weld System (50mm)				
Marley Code				
KP 304	50mm x 4m double spigot pipe			
KP32	50mm x 45 deg bend			
KSC3	50mm straight coupling			
KB3	50mm x 88.5 deg bend			
KT3	50mm swept tee			

Polypipe System 2000 muPVC Solvent Weld System (50mm)

Polypipe Code	
MU 301	4m length muPVC wastepipe 5/225
MU 313	50mm x 45 deg muPVC obtuse bend
MU 314	50mm x 92.5 deg muPVC swept bend
MU 310	50mm muPVC straight coupling
MU 316	50mm muPVC straight coupling
MU 316	50mm x 92.5 deg

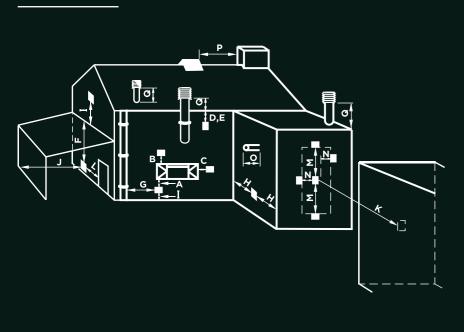
Polypipe Terrain Solvent 200 Weld System (50mm)

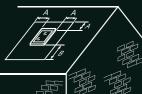
Polypipe Code	
200.2.40	4m length muPVC wastepipe
201.2.135	50mm x 135 deg muPVC bend
200.2.91	50mm x 91 1/4 deg muPVC swept bend
210.2	50mm muPVC straight coupling
204.2.135	50mm muPVC swept tee
	A DVC C Column

Wavin OSMA PVC-C Solvent Weld System (50mm)

Wavin Code	
2M073	3M length waste pipe 50mm
2M163	50mm x 45 deg bend
2M161	50mm x 87.5 deg bend
2M104	50mm double socket
2M190	50mm x 8.75 tee

FLUE POSITIONING

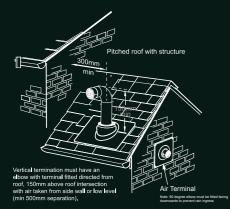






The flue terminal shall not penetrate the shaded area of the roof

tes shaded area A is less than 300mm, B shall not be less than 300mm.

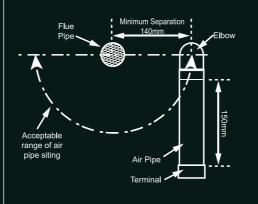


TERMINATION OF THE FLUE AND AIR

The flue and air pipes may terminate independently through any external walls within the same dwelling except on opposing walls, within the maximum lengths shown in the graphs on pages 18, 24 and 30 (alternatively a vertical flue pipe termination is acceptable). The air pipe must have an elbow and 150mm length of pipe directed downwards with a termination grill fitted. C13 only, C53 must have a minimum of a 90 degree elbow and terminal fitted facing downwards to prevent rain ingress.

The air pipe can be situated at the side or beneath the flue pipe to a minimum dimension of 140mm (see diagram below). It must not be sited above the flue pipe. The flue and air pipes must extend by at least 40mm from the wall surface. Condensing boilers emit a visible plume of water vapour from the flue terminal, this is normal. It is the responsibility of the installer to judiciously select a terminal location that does not cause a nuisance. If either the flue or air terminal is below a height of 2m from ground level a terminal guard must be fitted.

Note. Any vertical termination MUST comply with C53 installation with the air being taken from greater than 500mm away and from a flat wall termination as diagram in "Flue Positioning".



KESTON FLUE TERMINAL POSITIONS - C13 CLASSIFICATION

	n Flue Positions when Flue & Air Terminal ess than 500mm apart	Flue minimum spacing	Air minimum spacing
А	Below an opening (1)	300mm	50mm
В	Above an opening (1)	300mm	50mm
С	Horizontally to an opening	300mm	50mm
D	Below gutters,soil pipes or drain pipes	75mm	75mm
E	Below eaves	200mm	50mm
F	Below balcony or car port roof	200mm	50mm
G	From a vertical drain pipe or soil pipe	150mm	50mm
Н	From an internal or external corner or to a boundary alongside the terminal (2)	200mm	50mm
I	Above ground,roof or balcony level	300mm	100mm
J	From a surface or boundary facing the terminal	600mm	100mm
K	From a terminal facing a terminal	1200mm	1200mm
L	From an opening in the car port into the building	1200mm	100mm
М	Vertically from a terminal on the same wall	1500mm	1500mm
Ν	Horizontally from a terminal on the same wall	300mm	300mm
0	From the wall on which the terminal is mounted	40mm	40mm
Ρ	From a vertical structure on the roof	N/A	N/A
Q	Above intersection with roof	N/A	N/A
(1)	In addition, for temperature and structural reasons, the terminal should not building fabric formed for the purpose of accommodating a built-in elemer		raught) to an opening ir
(2)	The reference to external corners does not apply to building protrusions not ex for: fanned draught appliances	ceeding 450 mm, such as disused c	himneys on external wal

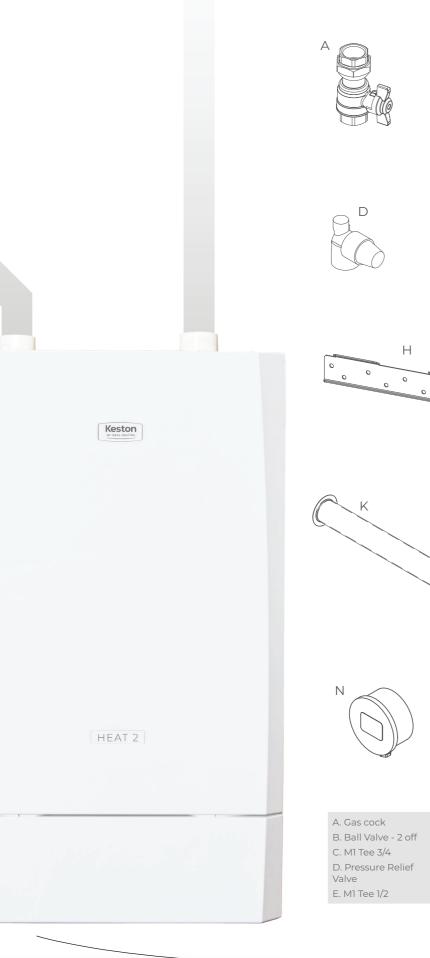
KESTON FLUE TERMINAL POSITIONS - C53 CLASSIFICATION

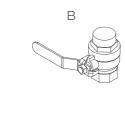
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SUPPLIED WITH KESTON HEAT 2

SUPPLIED WITH KESTON SYSTEM/COMBI

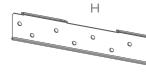






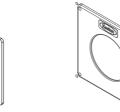
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L



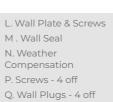


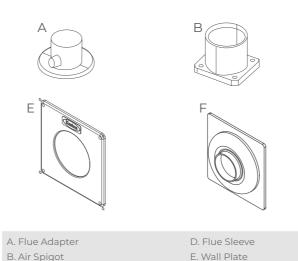


Q

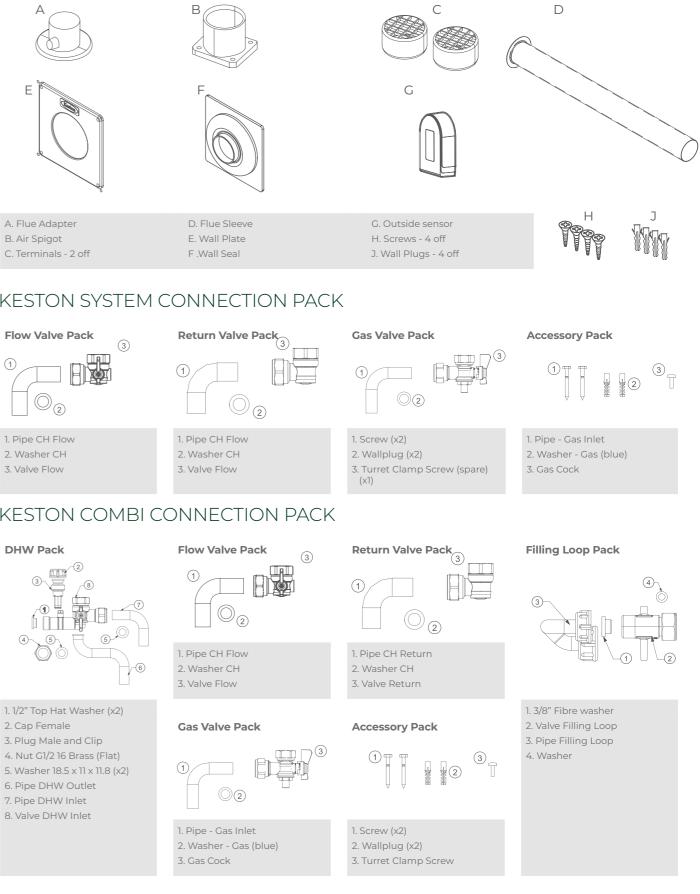
	F. Drain Nipple 3/4	L. V
off	G. Drain Nipple 1/2	Μ.
	H. Wall Mounting Plate	N. V
ief	J. Terminals - 2 off	Cor
	K. Flue Sleeve	P. S

Ρ





KESTON SYSTEM CONNECTION PACK



KESTON COMBI CONNECTION PACK





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TWIN FLUE SYSTEMS

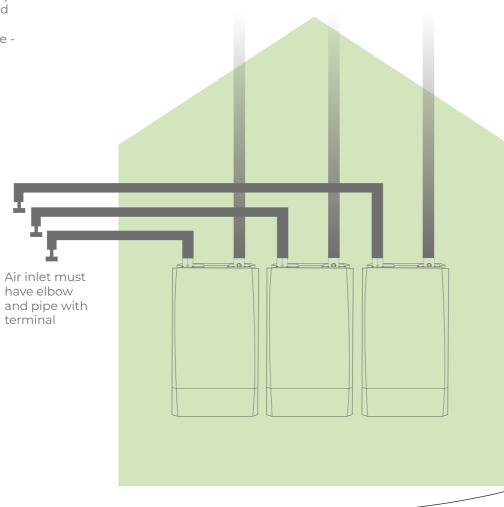
The termination of the flue pipes must be a minimum of 140mm apart.

There is no minimum spacing required when running flue pipes vertically within the building.

150mm above intersection of roof vertical flue pipe to have elbow and terminal pointing away from pitch.

If long runs of vertical pipe are utilised, it is recommended to fit a condensate trap at the base of the vertical section (if offset to flue adaptor).

- Air must be taken from vertical wall below roof level
- No minimum separation required between air intakes required
- No fall required for air intake can be horizontal



KESTON BOILER RANGE





7 YEAR WARRANTY†

Providing ultimate reliability, Keston boilers are offered with

warranties of up to 7 years when fitted with



TWIN FLUE DESIGN

Providing the perfect solution for problematic and awkward installations

British built since 2013

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WEATHER COMPENSATOR

All models in the Keston range come complete with weather



BRITISH BUILT SINCE 2013

All Keston boilers are built in and designed for the British market

ity when installed with a Keston 22mm System Filter and registered within 30 y. Keston Heat 2: 2 year parts & labour warranty as standard. 5 year warranty available when a Keston 28mm System Filter is installed with a single Keston tions apply.

KESTON HEAT 2

45KW & 55KW OUTPUT NATURAL GAS & LPG



With its higher outputs, Keston Heat 2 is an ideal solution for both Large Domestic and Commercial installations.

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; you can find out more about our Frame and Header kits on pages 24-25. 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*
- High 5:1 turndown
- Small installation footprint
- 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations**
- Cascade controls option

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- Easy servicing with 3 removable sides
- · Built in, serviceable Non-Return Valve



system filter with a Keston

Install the Keston 28mm



5 YEAR WARRANTY[†]

Providing ultimate reliability, Keston Heat 2 boilers are offered with a 5 year warranty when commissioned by Keston Boilers



TWIN FLUE DESIGN

Providing the perfect solution for problematic and awkward installations



WEATHER COMPENSATOR

All models in the Keston range come complete with weather compensation as standard



FRAME AND **HEADER KITS**

Able to facilitate up to 6 Keston Heat boilers in cascade





MODULATING PUMP Keston Heat boilers come with a low

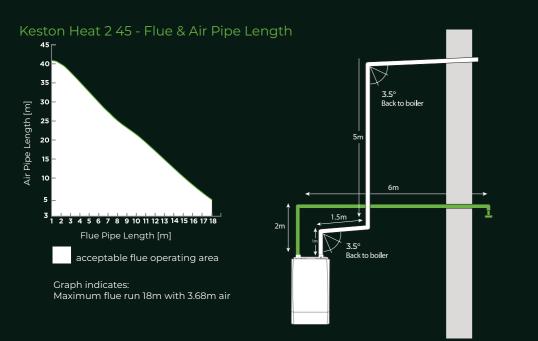
energy modulating pump which complies with energy efficiency requirements

BRITISH BUILT SINCE 2013

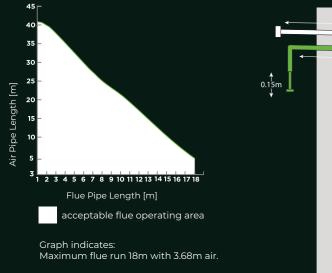
All Keston boilers are built in and designed for the British market

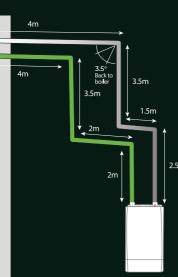
† 2 year parts & labour warranty as standard. 5 year warranty available subject to being commissioned by Keston Boilers. Free Commissioning only available when a Keston 28mm System Filter is installed with a single Keston Heat 2 boiler; not available on multiple (cascade) boiler installations. Terms 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.

FLUE



Keston Heat 2 55 - Flue & Air Pipe Length





C53 HORIZONTAL

Calculations

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

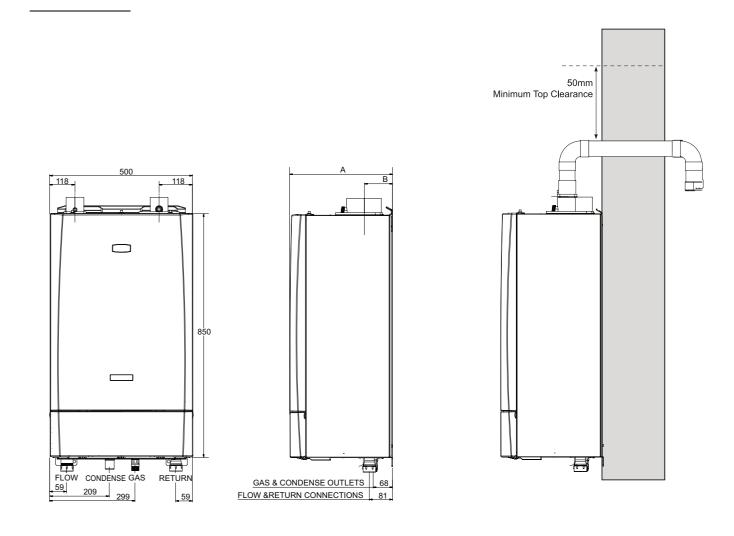
Air Elbows 2 x 1m = 2m Straights 6+2+0.1m = 8.1m Total = 10.1m

C13 HORIZONTAL

Calculations

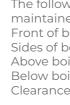
Flue Elbows 3 x 1m = 3m Straights 2.5+1.5+1.5+4 = 9.5m Total = 12.5m

Air Elbows 4 x 1m = 4m 2.5m Straights 2+2+3.5+4+0.15 = 11.65m Total = 15.65m



KESTON HEAT 2	2
Height	850mm
Width	500mm
Depth	360mm

DIMENSIONS





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

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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

SPECIFICATION DATA





CENTRAL HEATING

			45	45P	55	55P
Boiler Output	Max	kW	42.6	42.6	52.1	52.1
(Non Condensing) Mean 70°C	Min	kW	12.0	12.0	12.0	12.0
Boiler Output	Max	kW	45.0	45.0	55.0	55.0
(Condensing) Mean 40°C	Min	kW	12.7	12.7	12.7	12.7
Boiler Input Net	Max	kW	43.2	43.2	52.7	52.7
Boller Input Net	Min	kW	12.2	12.2	12.2	12.2
Poilor Input Cross	Max	kW	47.9	47.9	58.5	58.5
Boiler Input Gross	Min	kW	13.5	13.5	13.5	13.5
Gas Consumption	Max	m³/h	4.56	1.78	5.57	2.18
/ Rate	Max	ft³/h	161.2	62.9	196.9	76.8
Flue Gas Flow Rate	Max	m³/h	65.8	68.03	80.6	83.71
The Gas Flow Rate	Max	ft³/h	2323.7	2402.5	2846.4	2956.2

OTHERS

			45	45P	55	55P
	Seasonal	%	96	96	96.7	96.7
Efficiency	SEDBUK 2009	%	89.2	89.2	89.6	89.6
Seasonal Space Heating Efficiency Class			A	A	A	А
NOx	Weighted	mg/ kWh	28.6	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 - 20mba	ar 3P - G20 - 37mbar	2H - G20 - 20mba	ar 3P - G20 - 37mbar		
Gas Supply Connection			G	3/4			
Flow Connection			G 1	1/4			
Return Connection		G 1 1/4					
Max Pressure (Sealed System)	bar (psi)	6.0 (87.0)					
Maximum Static Head	m		6	1.0			
Electricity Supply			230V	- 50Hz			
Fuse Rating	А		4	.0			
Power Consumption	\vee	180	180	241	241		
IP Rating		IP20					
Condensate Drain	mm	25					
Water Content	I	5.0					
Dry Weight	kg	60.10					

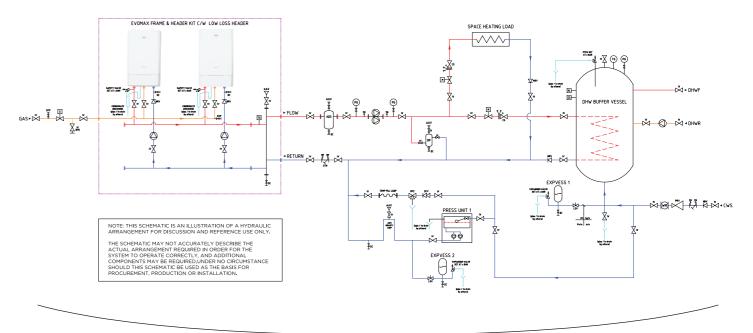
MULTI BOILER INSTALLATIONS - SYSTEM IN CASCADE

Systems that require a heat load greater than the output of a single boiler capacity can be easily achieved by fitting the required number of units in cascade. The Keston Heat range has a turndown rate of 5:1 allowing system requirements to be easily matched.

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In installations where the heat load is greater than the boiler capacity an ideal solution is to use multiple boiler arrangements.

Use Varican modules to control all boilers on a cascade through a Master and Slave set up.



18

FRAME AND HEADER KITS

Install Up To 6 Boilers in Cascade with Keston Heat 2 Frame and Header Kits.

The Keston Heat 2 Frame and Header kits offer a simple system installation allowing for outputs from 90kW to 330kW

THE FACTS

Small footprint

- 560mm depth for all variants of the Keston Heat 2 frame and header, with boilers in cascade
- Standard Height and Low Height (4 boiler maximum cascade) frames available

Low lift weight

• Lift weights are as low as possible

Time saving

• The flow and return and the low loss header are pre insulated which improves efficiency and reduces heat loss, as well as reducing installation time

Controls

- Varican Primary and Secondary modules can be used to sequence and cascade boilers independently without a complex Building Management System.
- Extension Module kit can manage 2 variable temperature mixing circuits

FLEXIBILITY OF SITING

Flue system

- The twin flue system allows awkward and difficult to site flue runs up to 18m*
- Simple 50mm muPVC (PVC-C)** solvent weld flue reduces time, cost and labour
- For increased flexibility of siting, additional elbows and bends are available for both flue systems
- Only 1m reduction in equivalent flue length per 90° bend
- Gas pressure test point fitted to both ends of the gas header to allow left or right hand installation
- New Flue Connector Air Inlet Kit allows Open Flue (B23) installations

* For the maximum total equivalent flue length, please refer to the installation manual. ** 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. Please see page 9 for more details.

KESTON HEAT 2

1 frame boiler c

Included

Boilers not or Header k

to add then

FRAME & HEADER ACCESSORIES

OOSE A FRAME KIT	CHOOSE A HE
Standard Height	Standard Heig
Up to 6 boilers 355013 required per boiler i.e. a 6	2 boilers (D 355084
ascade requires 6 frames	2 boilers (D 355111
Low Height Inline Up to 4 boilers with Low Height Header Kit	3 boilers (D 35508
included with Frame (its; please remember	3 boilers (D 355112
n to your order.	4 boilers (D 35508
	5 boilers (D 35508
	6 boilers (D 219546
	6 boilers (D 355088
	Low Height
	1 boiler (Dl 355093
	2 boilers (D 355094
	3 boilers (D 355095
	4 boilers (D 355096

British built since 2013

ADER KIT

ght Frame

DN80)

34

DN100)

DN80)

35

DN100)

ON100)

37

ON100)

DN100)

6

DN150)

t Frame

DN50)

93

DN65)

DN80)

95

ON100)

96

CHOOSE HYDRAULIC SEPARATION

Low Loss / Mixing Header

DN50 355090 DN65 355091 DN80 355019 DN100 355092

KESTON SYSTEM

10

Keston BY IDEAL HEATING

SYSTEM \$30

30kW Output



High SEDBUK efficiency rating and easy to install.

Keston System boiler provides a simple and reliable solution for a wide variety of sealed domestic systems.

Available with a 30kW output, Keston System provides a dependable and efficient solution for new and replacement installations. Time saving push & clip flue spigot connections and a wide range of alternative flueing solutions help to ensure the product is installed quickly in virtually any domestic situation.

With a lightweight design, concealed connections at the base and no compartment ventilation required, Keston System can be conveniently fitted out of sight into a standard kitchen cupboard*.

Complete with a 7 year parts and labour warranty[†], Keston System boiler provides simple heating control, all from a single compact appliance.

THE FACTS

- 7 year warranty[†]
- Easy to see pressure gauge
- · Large backlit display with user friendly controls
- Low lift weight
- Low component count maximising reliability
- Compact dimensions
- Twin flue up to 27m**
- 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations***
- Weather compensation supplied as standard
- Inbuilt frost protection
- Fully modulating
- · LPG conversion kit available



British built since 2013

YEAR WARRANTY

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7 YEAR WARRANTY[†]

Providing ultimate reliability, Keston System boilers are offered with a 7 year warranty when fitted with a Keston 22mm System Filter



TWIN FLUE DESIGN

Providing the perfect solution for problematic and awkward installations



WEATHER COMPENSATOR

All models in the Keston range come complete with weather compensation as standard



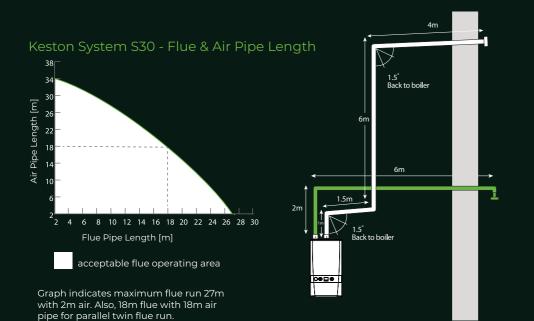
BRITISH BUILT SINCE 2013

All Keston boilers are built in and designed for the British market

† 7 year warranty when installed with a Keston 22mm System Filter and registered within 30 days of installation. 5 year parts & labour warranty as standard. 7 year warranty available unti 31/12/20. Terms and conditions apply.

 * Please check cupboard size prior to installation
** For the maximum total equivalent flue length, The only systems approved for this application 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 for more details

FLUE



C53 HORIZONTAL

Calculations

Flue Elbows 3 x 1m = 3m Straights 4+6+1.5+1 = 12.5m Total = 15.5m

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

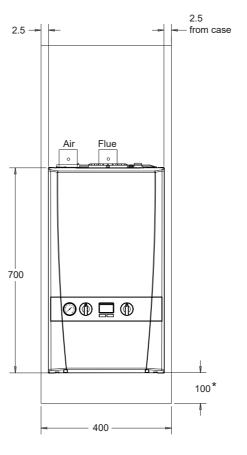
C13 HORIZONTAL

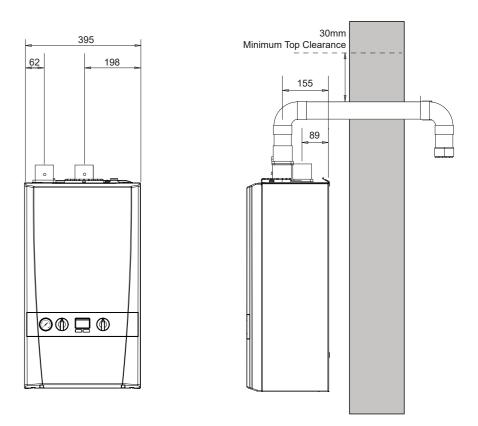
Calculations

Flue Elbows 3 x 1m = 3m Straights 4+3.5+1.5+2.5 = 11.5m Total = 14.5m

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

DIMENSIONS





KESTON SYSTEM		The t mair
Height	700mm	Fron
Width	395mm	Abov Belo
Depth	278mm	

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keston.co.uk * Or equivalent length. [†] Can be reduced to 5mm for cupboard fit, 450mm required for servicing.

e following minimum clearances must be intained for operation and servicing. nt of boiler - 450mm[†] es of boiler - 2.5mm

ove boiler - 30mm above the flue

ow boiler - 100mm[†]

SPECIFICATION DATA

CENTRAL HEATING

			S30
	Max	kW	30.3
CH Output @ 70°C	Min	kW	6.1
	Max	kW	31.0
CH Output @ 40°C	Min	kW	6.4
CH Input	Nett CV Max	kW	30.4
	Nett CV Min	kW	6.1
Chillionut	Gross CV Max	kW	33.7
CH Input	Gross CV Min	kW	6.7
CH Gas Consumption	Max	m3/h	3.135
	Min	m3/h	0.622

OTHERS

			S30
	SEDBUK 2005	%	91.1
Seasonal Efficiency	SEDBUK 2009	%	89.6
Seasonal Space Heating Efficiency Class			A
NOx Classification			Class 5

GENERAL DATA

Max Horizontal Flue Length	m
Max Horizontal Flue Length (Parallel)	m
Flue Terminal Diameter	mm
Gas Supply	
Gas Supply Connection	
Injector Size	mm
Flow Connection (CH)	
Return Connection (CH)	
Average Flue Temp - Mass Flow Rate	
CO ₂ Content (±0.7) (Max CH)	%
CO ₂ Content (±0.7) (Min CH)	%
Max Working Pressure (Sealed Systems)	bar (psi)
Electrical Supply	
Power Consumption	\mathbb{W}
Fuse Rating	
Water Content	l (gal)
Weight (Packed)	kg
Maximum Installation Weight	kg

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26

S30

27 Flue / 2 Air

18 Flue / 18 Air

50

2H - G20 - 20mbar

15mm copper compression

4.65

22mm copper compression

22mm copper compression

69°C - 13g/s

9.3

8.8

2.5 (36.3)

230V - 50Hz

100

External 3A / Internal: T4A HRC L250V

1.2 (0.26)

31.6

26.2

KESTON COMB

Keston





Complete hassle-free home comfort from a single compact appliance.

Offering first-class comfort in a compact, wall-hung appliance small enough to fit inside a standard kitchen cupboard*, the Keston Combi range enables heating and hot water to be controlled independently, ensuring maximum comfort and efficiency.

Keston Combi can be sited almost anywhere in the home, without the need for a separate tank. And because it connects to the unique Keston Twin Flue system, the boiler can be situated anywhere up to 27** metres from the flue outlet, helping to provide further flexibility when required.

Fully modulating, and with weather compensation, Keston Combi provides excellent energy savings, making it the perfect choice for new or replacement installations alike.

THE FACTS

- 7 year warranty[†]
- Easy to see pressure gauge
- · Large backlit display with user friendly controls
- Low lift weight
- Low component count maximising reliability
- · Compact dimensions
- Twin flue up to 27m**
- · 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations***
- Weather compensator supplied as standard making Keston Combi **Boiler Plus compliant out** of the box
- · Pre-fitted filling loop
- Inbuilt frost protection
- Fully modulating

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· LPG conversion kit available



YEAR WARRANTY

28





7 YEAR WARRANTY[†]

Providing ultimate reliability, Keston Combi boilers are offered with a 7 year warranty when fitted with a Keston 22mm System Filter



TWIN FLUE DESIGN

Providing the perfect solution for problematic and awkward installations



WEATHER COMPENSATOR

All models in the Keston range come complete with weather compensation as standard



BRITISH BUILT SINCE 2013

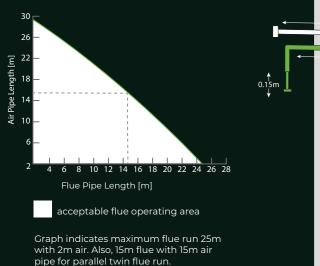
All Keston boilers are built in and designed for the British market

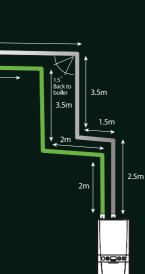
† 7 year warranty when installed with a Keston 22mm System Filter and registered within 30 days of installation. 5 year parts & labour warranty as standard. 7 year warranty available until 31/12/20. Terms and conditions apply.* Please check cupboard size prior to installation.** For the maximum total equivalent flue length, please refe to the installation manual.*** 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 (S0mm) and Wavin Osma PVC-C Solvent Weld System (S0mm). Please use the recommended Solvent Weld Cement for each system. Please see page 9 for more details

FLUE



Keston Combi C35 - Flue & Air Pipe Length





C53 HORIZONTAL

Calculations

Flue Elbows 3 x 1m = 3m Straights 4+6+1.5+1 = 12.5m Total = 15.5m

Air

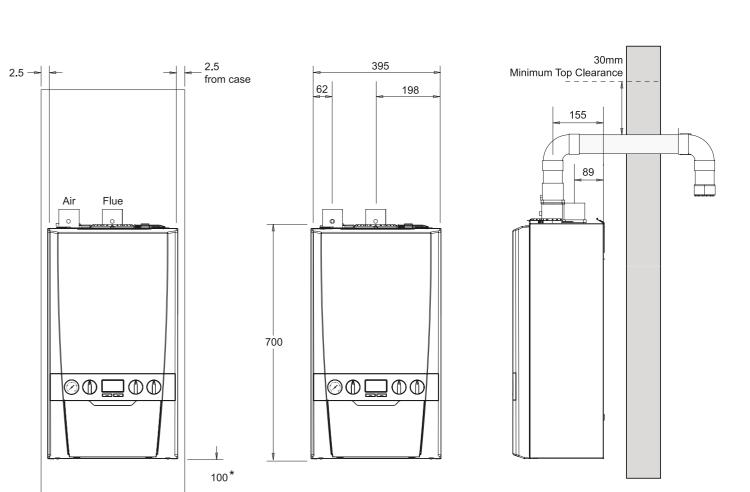
Elbows 2 x 1m = 2m Straights 6+2+0.1+1 = 8.1m Total = 10.1m

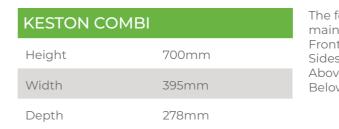
C13 HORIZONTAL

Calculations

Flue Elbows 3 x 1m = 3m Straights 4+3.5+1.5+2.5 = 11.5m Total = 14.5m

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





400

DIMENSIONS

keston.co.uk * Or equivalent length. † Can be reduced to 5mm for cupboard fit, 450mm required for servicing

The following minimum clearances must be maintained for operation and servicing. Front of boiler - 450mm[†] Sides of boiler - 2.5mm

Above boiler - 30mm above the flue

Below boiler - 100mm[†]

SPECIFICATION DATA

CENTRAL HEATING

			C30	C35
CH Output @ 70°C	Max	kW	24.2	24.2
CH Output @ 70 C	Min	kW	6.1	7.1
	Max	kW	25.6	25.6
CH Output @ 40°C	Min	kW	6.4	7.5
CH Input	Nett CV Max	kW	24.3	24.3
	Nett CV Min	kW	6.1	7.1
Chilpout	Gross CV Max	kW	27.0	27.0
CH Input	Gross CV Min	kW	6.7	7.9
CH Gas	Max	m³/h	2.512	2.512
Consumption	Min	m³/h	0.623	0.734

HOT WATER

			C30	C35
DHW Output	Max	kW	30.3	35.3
DHW Input	Nett CV Max	kW	30.4	35.4
DHW Input	Gross CV Max	kW	33.7	39.3
DHW Gas Consumption		m³/h	3.135	3.658
DHW Flow Rate at 35°C Rise		l/min	12.4	14.5
DHW Specific Rate		l/min	14.5	16.9

OTHERS

			C30	C35
Concorol Efficiency	SEDBUK 2005	%	91.1	91.1
Seasonal Efficiency	SEDBUK 2009	%	89.6	89.6
Seasonal Space Heating Efficiency Class			А	А
NOx Classification			Class 5	Class 5

GENERAL DATA

Max Horizontal Flue Length	m
Max Horizontal Flue Length (Parallel)	m
Flue Terminal Diameter	mm
Gas Supply	
Gas Supply Connection	
Injector Size	mm
Flow Connection (CH)	
Return Connection (CH)	
Inlet Connection (DHW)	
Outlet Connection (DHW)	
Average Flue Temp - Mass Flow Rate (DHW)	
CO ₂ Content (±0.7) (Max CH)	%
CO ₂ Content (±0.7) (Max DHW)	%
Max Working Pressure (Sealed Systems)	bar (psi)
Max DHW Inlet Pressure	bar (psi) (kPa)
Min DHW Inlet Pressure	bar (psi) (kPa)
Electrical Supply	
Power Consumption	\sim
Fuse Rating	
Water Content (CH)	l (gal)
Water Content (DHW)	l (gal)
Weight (Packed)	kg
Maximum Installation Weight	kg

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C30	C35		
27 Flue / 2 Air	25 Flue / 2 Air		
18 Flue / 18 Air	15 Flue / 15 Air		
5	0		
2H - G20	- 20mbar		
15mm coppe	r compression		
4.65	4.90		
22mm coppe	r compression		
22mm coppe	r compression		
15mm coppe	r compression		
15mm coppe	r compression		
68°C - 13g/s	73°C - 15g/s		
8.8	8.9		
9.3	9.5		
2.5 (36.3)			
10.0 (14:	5) (1000)		
1.3 (18.	9) (130)		
230V	- 50Hz		
101	774		
External 3A / Interr	nal: T4A HRC L250V		
1.2 (0.26)		
0.5	(0.11)		
34.4	34.5		
31.4	31.5		



KESTON SERVICE Support & Aftersales

When you choose a Keston appliance, you are selecting a solution that has been expertly produced to the highest of standards.

SUPPORT

When you choose to work with Keston you can be confident to know that you're partnering with a British manufacturer that's supported by a dedicated national service team, delivering help and advice to you and your customers, 364 days a year.

Our rigorous research and development procedures and manufacturing quality control checks ensures that all of our products are produced to the highest of standards, delivering total comfort and peace of mind.

SERVICE

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Our dedicated service team of engineers are fully trained to exacting standards and are Gas Safe Registered, providing one-toone advice on the road, over the phone or via the net to thousands of customers each year.

PARTS

Keston's extensive quality testing procedures ensure that all of our products are manufactured to the highest of quality standards.

AFTERSALES

Supported by a dedicated national service team, delivering help and advice to you and your customers, 364 days a year, all of Keston's products come with their own dedicated warranty. Each product design undergoes a rigorous research and development procedure and manufacturing quality control check to ensure that every product is produced to the highest of standards, helping to deliver total home comfort and peace of mind. In the unlikely event that a spare part is required, you can be rest assured that most parts are readily available to order via your local spares outlet up to 10 years after appliance production has ceased.

Keston spare parts can be obtained from any of Ideal Heating's nationwide network of approved stockists.



Installer helpline & Homeowner helpline

01482 443 005



Spares Department

01482 443 005

For information about any Keston spare parts

For a list of stockists, please call our Spares Department or visit our website keston.co.uk

KESTON TRAINING

Here at Keston, we understand that having the confidence to be able to specify and install a wide range of products is an essential part of your day-to-day job.

With this in mind, we have created a wide range of comprehensive training courses, utilising both classroom and hands-on learning techniques to enable you to become a more efficient, skilled heating engineer.

All of our training courses have been designed to ensure that you get the most out of the time spent off the road and can be easily adapted to suit the desired knowledge level.

So, if you're looking to refresh your existing knowledge, or to learn how to install something completely new, Keston has a course for you.

For more information, please contact the training department on 01482 443 005.

LOCATIONS

Centres of Excellence in Hull, Leeds and Reading.

These are comprehensive one-day courses, which can be mixed and matched for individual installation and servicing companies. The course uses a simple step-bystep approach with hands on training to ensure all aspects of commissioning, servicing and fault finding can be dealt with quickly and efficiently.

If you are an installer/service engineer you must be Gas Safe Registered to attend a course. attend a course.

COURSE CONTENT

Each course covers the following:

- Product range overview
- Product specification
- Installation requirements
- Flue and accessory options
- Component review overview
- Component change and repair
- User controls
- Sequence of operation
- Fault finding

The course involves discussion with tutors, demonstrations with practical advice. Lunch and refreshments are provided and a certificate is awarded upon completion.



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PRODUCT INFORMATION

Keston

Keston Priecel Heating



KESTON SYSTEM	KESTON COMBI	KESTON HEAT 2
355063 - Keston System S30 Boiler Packaged	355061- Keston Combi C30 Boiler Packaged	355123 - Keston Heat 45 Boiler Packaged
	355062 - Keston Combi C35 Boiler Packaged	355124 - Keston Heat 55 Boiler Packaged
		355125 - Keston Heat 45P Boiler Packaged
		355126 - Keston Heat 55P Boiler Packaged

ACCESSORIES

KESTON SYSTEM	KESTON COMBI	KESTON HEAT 2
355005 - Keston Twin Combi/ System Stand Off Kit	355005 - Keston Twin Combi/ System Stand Off Kit	355006 - Keston Air Terminal Finishing Kit
355006 - Keston Air Terminal Finishing Kit	355067 - 7 Day Plug in Electronic timer	355082 - Keston System Filter 28mm
355007 - Keston Flue Sleeve Kit 355081 - Keston System Filter	355066 - RF Electronic Programmable Stat	355128 - Varican Gateway Master Kit
22mm 355071- Keston System S30 LPG	355006 - Keston Air Terminal Finishing Kit	355129 - Varican Gateway Slave Kit
Conversion Kit	355007 - Keston Flue Sleeve Kit	355130 - Extension Module Kit
	355081- Keston System Filter 22mm	
	355069 - Keston Combi C30 LPG Conversion Kit	Pocket Kit
		355132 - Flow Sensor Strap On Kit
	355070 - Keston Combi C35 LPG Conversion Kit	355133 - Keston Heat and Heat 2 Room Sensor Kit
		355135 - Keston Heat 2 OPENTHERM 2 Channel Programmable Room Control
		355136 - Safety Interlock Kit
		355137 - 0-10V Pump Control Kit
		355138 - KNX Gateway
		355139 - Elue Connector Air Inlet

FRAME AND HEADER KITS

KESTON HEAT 2
355093 - Low Height Frame & Header DN50 x 1 Boiler Kit
355094 - Low Height Frame & Header DN65 x 2 Boiler Kit
355095 - Low Height Frame & Header DN80 x 3 Boiler Kit
355096 - Low Height Frame & Header DN100 x 4 Boiler Kit
355090 - Low Loss Header DN50
355091 - Low Loss Header DN
355019 - Low Loss Header DN
355092 - Low Loss Header DN100
355097 - Standard Height Flexible Gas Hose
355098 - Low Height Flexible Gas Hose

Keston

55139 - Flue Connector Air Inlet Kit



Customer Service: 01482 443005

Technical Help: 01482 443005

Manufactured to the highest UK standards, anything is possible with a Keston.

Keston Heating, PO Box 103, National Avenue, Kingston upon Hull, East Yorkshire, HU5 4JN

E: enquiries@idealheating.com



energy saving trust endorsed product

British built since 2013

In accordance with our policy of constant improvement we reserve the right to alter the design and specification of products without prior notice.