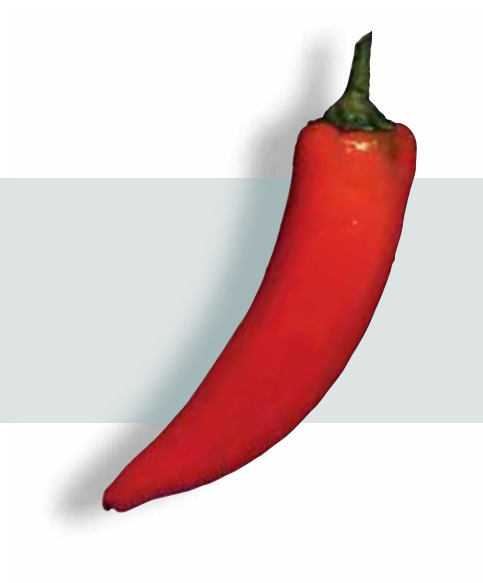


KESTON DOMESTIC

HIGH-EFFICIENCY DOMESTIC GAS BOILERS
ENGINEERED TO PERFORM

NATURAL HEATING

INTRODUCING THE QUDOS



KESTON C36 COMBI • KESTON QUDOS 28s • KESTON QUDOS 28h • KESTON C40 • KESTON DUET • KESTON qSPA



KESTON QUDOS 28H

INTELLIGENT FUTURE-READY CONDENSING BOILERS – OPEN VENT FORMAT

BASIC FEATURES

- SEDBUK A rated
- 50mm muPVC flue system as expected from Keston Boilers Ltd (NB BSEN1566-1 (pipe) and BSEN1329 (fittings)).
- Attractive LCD user display indicating full product operation status at all times
- No compartment ventilation due to the very low casing temperatures
- Two stage frost protection
- System pump and fan exercise during extended periods of inactivity
- Full diagnostics and information display
- Lockout "avoidance" technology to prevent nuisance lockouts
- Fully programmable setting – can be tailored to each individual users needs
- Logging of historical data
- Optional back frames for routing pipes behind boiler
- Natural and LP Gas models

'FUTURE READY' CONTROL CAPABILITY FITTED AS STANDARD, PROVIDING A RANGE OF OPTIONS TO SUIT ALL APPLICATIONS:

- Integral Solar Controller for direct control of 'auxiliary energy' such as solar thermal
- Keston 'Dual Stat' facility allowing two different operating temperatures depending upon the source of the demand
- Opentherm control connection for intelligent room control
- 0–10V DC input control for BMS connection controls
- Facility for hot water modulating control and legionella protection
- Weather compensation
- Optional remote fascia unit



Weather Compensation and Flue Kit included as standard

- 2 YEAR WARRANTY PACKAGE
- RIDGE VENT OPTION
- STAINLESS STEEL HEAT EXCHANGER
- WEATHER COMPENSATION
- FLUE REMEDY
- ENERGY EFFICIENCY RECOMMENDED
- SEDBUK 'A' Listed

The Keston Qudos 28 offers today's domestic market the ultimate in tomorrow's technology. A range of fully modulating gas condensing boilers with advanced yet simple integral controls that provide a suite of options for the user/installer to select to ensure optimum performance is delivered at all times.

The Qudos 28 units feature an integral control system for 'auxiliary energy' such as solar thermal, thereby providing a 'future proof' solution. This ensures seamless integration of the renewable energy source with the high efficiency boiler operation to maximise the energy efficiency benefits available.

The Qudos 28h has dimensions of only H680 x W390 x D280 and weighs just 35kg. It can be sited virtually anywhere – even in a standard kitchen cupboard if required, with no compartment ventilation.

KESTON RIDGE UNIT



An alternative to the normal Keston flue or air terminals is the Lafarge Ridge Ventilation Tile, which can be positioned on the ridge of the building. It is a standard product from Redland Roofing Products and is available in a range of colours and profiles to match the roof profile. Contact Keston Boilers Limited for more information.

KESTON QUDOS 28S

INTELLIGENT FUTURE-READY CONDENSING BOILERS – WITH INTEGRAL PUMP, VESSEL & SAFETY VALVE

BASIC FEATURES

- SEDBUK A rated
- 50mm muPVC flue system as expected from Keston Boilers Ltd (NB BSEN1566-1 (pipe) and BSEN1329 (fittings)).
- Attractive LCD user display indicating full product operation status at all times
- No compartment ventilation due to the very low casing temperatures
- Two stage frost protection
- Pump and fan exercise during extended periods of inactivity
- Full diagnostics and information display
- Variable speed circulating pump for increased operating efficiencies
- 3 bar safety valve included
- 8 litre system expansion vessel included
- Lockout "avoidance" technology to prevent nuisance lockouts
- Fully programmable setting – can be tailored to each individual users needs
- Logging of historical data
- Optional back frames for routing pipes behind boiler
- Natural and LP Gas models



'FUTURE READY' CONTROL CAPABILITY FITTED AS STANDARD, PROVIDING A RANGE OF OPTIONS TO SUIT ALL APPLICATIONS:

- **Integral Solar Controller for direct control of 'auxiliary energy' such as solar thermal**
- **Keston 'Dual Stat' facility allowing two different operating temperatures depending upon the source of the demand**
- **Opentherm control connection for intelligent room control**
- **0–10V DC input control for BMS connection controls**
- **Facility for hot water modulating control and legionella protection**
- **Weather compensation**
- **Optional remote fascia unit**

The Keston Qudos 28 offers today's domestic market the ultimate in tomorrow's technology. A range of fully modulating gas condensing boilers with advanced yet simple integral controls that provide a suite of options for the user/installer to select to ensure optimum performance is delivered at all times. For ultimate performance optimising, the Qudos 28s also features an integral speed-controlled pump to ensure water flow rate and burner rate are perfectly matched.

The Qudos 28 units feature an integral control system for 'auxiliary energy' such as solar thermal, thereby providing a 'future proof' solution. This ensures seamless integration of the renewable energy source with the high efficiency boiler operation to maximise the energy efficiency benefits available.

The Qudos 28s has dimensions of H700 x W435 x D280 and weighs 43kg. It can be sited virtually anywhere – even in a standard kitchen cupboard if required, with no compartment ventilation.

WEATHER COMPENSATION



All Keston Boilers have built in weather compensation ability as standard. Simply add an outside sensor unit to activate. The boiler will automatically adjust its heating temperature according to the outside temperature. This delivers enhanced comfort levels, reduced boiler cycling and reduced gas consumption.



Physical data

		C36 & C36P Combi	Qudos 28h	Qudos 28s	C40 & C40P	qDuet 120/150/210
Cabinet Height	mm	840	680	700	720	1933/2120/1933
Cabinet Width	mm	450	390	435	520	600
Cabinet Depth	mm	300	280	280	320	625/625/875
Top Clearance	mm	150	150	150	150	100
Side Clearance	mm	5	5	5	25	25
Base Clearance	mm	100	200	200	150	N/A
Front Clearance (for servicing)	mm	300	300	300	305	400
Weight - Full	kg / (lbs)	50/(110)	39/(86)	47/(104)	70	250/281/344
Weight - Empty	kg / (lbs)	45/(99)	35/(77)	43/(95)	61	125/131/144
Flow and Return Connection		22mm Compression using optional pre-installation jig	G 3/4	G 3/4	Rp 1" F	22mm
DHW and CWS Connection		15mm Compression using optional pre-installation jig	N/A	N/A	N/A	22mm
Gas Connection		15mm Compression	G 1/2	G 1/2	22mm Compression	Rp 0.5" F
Condensate Connection		22mm plastic	22mm plastic	22mm plastic	22mm plastic	22mm plastic
Safety Valve Discharge Connection		15mm copper	15mm copper	15mm copper	N/A	22mm(D2)
IP Rating		IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)
Flue and Air Intake Material: 50mm muPVC (BSEN1566-1 Pipe & BSEN1329 Fittings)						
Max. Flue Outlet Length	m	20	20	20	15	20
Max. Total Flue Outlet and Air Intake Length	m	40	40	40	30	40
Flue and Air Intake Material: 75mm Keston Composite						
Max. Flue Outlet Length	m	60	60	60	45	60
Max. Total Flue Outlet and Air Intake Length	m	120	120	120	90	120

Performance data

		C36 COMBI	C36P COMBI	QUDOS 28H	QUDOS 28HP	QUDOS 28S	QUDOS 28SP	C40	C40P
		Nat. Gas (G20) LPG (G31)						Nat. Gas (G20) LPG (G31)	
Max. CH Input (Gross CV)	kW/(Btu/h)	28.3/(96,600)	27.7/(94,500)	29.4/(100,300)	27.8/(94,850)	29.4/(100,300)	27.8/(94,850)	45.6/(155,600)	43.2/(147,400)
Max. DHW Input (Gross CV)	kW (Btu/h)	40.0/(136,500)	39.0/(133,000)	N/A		N/A		N/A	
Max. DHW Output to Water	kW/(Btu/h)	36.0/(122,800)	36.0/(122,800)	N/A		N/A		N/A	
Max. Output To Water (80/60°C Flow/Return)	kW/(Btu/h)	25.2/(86,000)	25.2/(86,000)	26.4/(90,500)	26.4/(90,500)	26.4/(90,500)	26.4/(90,500)	40.3/(137,600)	39.1/(133,300)
Max. Output To Water (50/30°C Flow/Return)	kW/(Btu/h)	28.0/(95,500)	27.7/(94,500)	28.4/(96,900)	28.4/(96,900)	28.4/(96,900)	28.4/(96,900)	44.9/(153,400)	43.2/(147,400)
Min. Output To Water (80/60°C Flow/Return)	kW/(Btu/h)	7.4/(25,250)	7.4/(25,250)	7.0/(24,900)	7.0/(24,900)	7.0/(24,900)	7.0/(24,900)	11.3/(38,500)	11.4/(38,800)
Max. Domestic Hot Water Flow Rate (at 35°C Rise)	litre/min	14.5		N/A		N/A		N/A	
Specific DHW Rate (EN625 30°C Rise)	litre/min	17		N/A		N/A		N/A	
Max. Domestic Hot Water Flow Temp.	°C	65		N/A		N/A		N/A	
Max. Gas Cons. After 10 mins	l/s / (Ft ³ /hr)	1.03/(131)	0.98/(61)	0.76/(96.6)	0.35/(45.0)	0.76/(96.6)	0.35/(45.0)	1.207/(153.4)	0.451/(57.4)
Max. Operating Flow Temp.	°C	82		82		82		82	
Max. Press. (Sealed System)	bar	2.7		2.5		2.5		2.7	
Inlet Gas Pressure	mbar/(in w.g)	20.0 / (8.0)	37.0/(14.8)	20.0/(8.0)	37.0/(14.8)	20.0/(8.0)	37.0/(14.8)	20.0 / (8.0)	37.0/(14.8)
Electrical Supply		230V 50Hz		230V 50Hz		230V 50Hz		230V 50Hz	
Power Consumption (Max)	W	180		84		150		260	
Power Consumption (Standby)	W	6		8.5		8.5		8	
Type of Gas		G20 Natural Gas	G31 LPG	G20 Nat Gas	G31 LPG	G20 Nat Gas	G31 LPG	G20 Natural Gas	G31 LPG
Optimum Flue Gas CO Level (at max CH rate, case on)	%	9.3	10.6	9.1	10.5	9.1	10.5	8.3	9.9
SEDBUK Efficiency ²		90.7	92.9	91.1 (A)	93.1 (A)	91.1 (A)	93.1 (A)	90.4	92.5
NOx Class		5		5		5		5	
Safety Valve	bar / (lbf/sq in)	3/(43.5)		N/A		3/(43.5)		N/A	
Expansion Vessel Capacity	litre	8		N/A		8		N/A	
Expansion Vessel Charge Pressure	bar / (lbf/sq in)	1.0/(14.5)		N/A		1.0 (14.5)		N/A	
DHW Max. Working Pressure	bar / (lbf/sq in)	8/(116)		N/A		N/A		N/A	
GC Number		47-930-01	47-930-02	41-930-19	41-930-20	41-930-17	41-930-18	41 930 07	41 930 08
CE PI Numbers		87BQ006		87BR36	87BR36	87BR36	87BR36	87BN14	

For higher output applications Keston offers a complete range of commercial heating products including made-to-order multiple boiler rigs - refer to the Keston Commercial brochure for more details.

KESTON BOILERS LIMITED

Telephone: 020 8462 0262

Fax: 020 8462 4459

34 West Common Road, Bromley, Hayes, Kent BR2 7BX, United Kingdom

WWW.KESTON.CO.UK

General Information: info@keston.co.uk

Technical Support: technical@keston.co.uk

Sales: sales@keston.co.uk

Spares: spares@keston.co.uk

Accounts: accounts@keston.co.uk

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