Vokèra
heating for life

Domestic heating solutions

COMBI, SYSTEM AND OPEN VENT BOILERS \ WATER HEATERS \ UNVENTED CYLINDERS \ SOLAR THERMAL COLLECTORS \ AIR SOURCE HEAT PUMPS \ TRAINING

For space and water heating

Part of the Riello Group

RIELLO GROUP
Energy For Life

heating for life

Vokèra products provide a trouble-free focal point for any central heating system. Our extensive range offers the right choice for every home and application.

Choosing the right boiler shouldn't have to mean limited choice. Our range comes in a variety of outputs suitable for any domestic application.

Versatile flueing options and natural gas/LPG flexibility means that virtually any home can enjoy the benefits of a Vokèra boiler.

And now you can couple a Vokèra boiler with Vokèra renewable technology products, harnessing the earths natural resources.

warmth

VOKERA DOMESTIC HEATING SOLUTIONS

efficiency

Vokèra Domestic Heating Solutions

Quality and reliability

More than 1.5 million Vokèra boilers have been installed around the UK and Ireland demonstrating our wealth of experience in home heating. Vokèra is recognised for the quality and reliability of its products with one of the highest reliability statistics in the market coupled with a 30 year unblemished record of product quality. At every stage, from research and development through to production and after sales support, we build quality in as standard. Safety is our number one priority, Vokèra is ISO 9001 approved, supports the 'benchmark' initiative, are members of the Heating and Hot Water Industry Council, Association of Plumbing and Heating Contractors, the Energy Utilities Alliance and Gas Safe Register.

In support of this we back our Vision boiler range with a 5 or 7 year warranty option, our Linea One, Unica i and Mynute i ranges with a 5 year warranty as standard and our other boiler ranges with a 2 year warranty as standard.

Vokèra base the monthly reliability factor on the number of products at risk, measured against the quantity of bona-fide warranty interventions carried out during the same period

Choice

Vokèra specialises in the domestic and light commercial market and provides products that fulfil modern requirements. Our product range incorporates a product for every domestic application, including high efficiency combination, system and open vent boilers, light commercial boilers and water heaters and unvented cylinders.

Vokèra renewable energy technology products are MCS approved demonstrating their quality and reliability. Renewable products available include the Zenith solar thermal range and AriaPRO air source heat pumps.

Versatility

Vokèra boilers are available in natural gas with kits available to allow simple conversion to LPG. A wide range of flue options means that Vokèra appliances are extremely versatile – there is not a place in the home where they cannot be installed.

Service and support

Our support network incorporates a pre sales support advice service, Technical Training, Technical Support service and a Customer Care team dedicated to providing great service.

Vokèra employed engineers and approved agent network support every product, giving you peace of mind that should you need us, we are there. Our engineers boast a 95% first time fix rate, ensuring a rapid resolution should any Vokèra appliance develop a fault during the warranty period. We regularly publish our customer satisfaction results on our website, these not only demonstrate our commitment to continual improvement, but the high levels of 99% satisfaction we consistently achieve every year.*

*Vokèra calculates its monthly customer satisfaction results by the total number of customer calls our engineers attend versus customer complaints.

High efficiency condensing technology

The latest technology is used to maximise the efficiency of all Vokèra products. All Vokèra high efficiency boilers conform to the Energy-related Product Directive (ErP). ErP is a mandatory piece of legislation, which aims to bring in minimum standards for space heating and hot water systems. In summary, the directive requires heating appliances with up to 400kW output to meet a set of requirements regarding their energy consumption, efficiency and carbon emissions. In a similar way to the ratings already found on domestic white goods, the Energy Labelling Directive means that space and water heating products and packages are to be given an efficiency rating and label, from A+++ to G.

Vokèra high efficiency appliances are amongst the most energy efficient boilers available today. These condensing boilers dramatically reduce wasted heat, saving money and helping to protect the environment. Most of these boilers can be fitted with additional energy saving controls to ensure they maximise energy efficiency and the overall ErP rating.

Radial heat exchanger

Starting from the raw materials this key component is designed and built in-house ensuring the highest quality, no compromise. This provides maximum control over the manufacturing process, ensuring excellent flexibility and reliability of the thermal and corrosion resistant properties of the heat exchanger.

The innovative heat exchanger, found in our higher specification products, is a single piece component manufactured from superior quality aluminium alloy that has been specifically chosen for its excellent corrosion resistant properties and high thermal transfer rate. The radial design and large cross-sectional area eliminate the risk of scaling or superheated areas. No welding or localised heat treatment is necessary during the manufacture of the heat exchanger, thereby maintaining maximum integral strength and thermal qualities of the aluminium alloy.

The Linea One and Unica i combination boilers utilise the latest version of the radial heat exchanger which has been developed to increase the time between any required maintenance of the heat exchanger. This has been enabled by increasing the 'pitch' of the coils thereby reducing the possibility of condense residues sticking to the outer wall of the exchanger.

Vokèra Unica i with
10:1 modulation ratio

Class leading 10:1 modulation ratio

By incorporating the most advanced technology available, an extremely high modulation ratio of 10:1 has been achieved in the higher specification products such as the Linea One, Unica i and Mynute i. The modulation ratio is a boiler's ability to reduce its maximum output to its minimum output. The ability of an appliance to modulate its output to 10% of its maximum output has many benefits.

If a boiler has a maximum output of 38kW yet only has a modulation ratio of 4:1, it will only be able to modulate down to around 10kW. However, when most rooms have reached the required temperature and radiator TRVs have closed, the demand on the boiler will be considerably less than 10kW. This means that the minimum output of the boiler will be higher than it needs to be, so the boiler will constantly switch on and off, leading to fuel inefficiency. This will also place unnecessary stress on the boiler's components and parts.

A boiler with a high maximum output and a wide modulation ratio however, will be able to modulate down to an extremely low output, reducing wear and tear on primary components and increasing fuel efficiency resulting in cost savings for the end user.

Secondly, a combination boiler with a high modulation ratio is able to maintain a stable domestic hot water (DHW) flow temperature at a low flow rate, minimising any temperature fluctuations to provide a continuous flow of hot water, ensuring total end user comfort. This is particularly important for end users who prefer showers over baths or for those who require a constant DHW outlet temperature – for example, where there are young children or elderly people in a household, who are at a higher risk of scalding.

When selecting a combi boiler, it's crucial to consider modulation ratios and to remember that performance is not just about kW output. Installing a combi boiler with a high maximum output and a wide modulation ratio will deliver optimal efficiency and comfort.

Vokèra Magnetic Filter

High efficiency boilers offer excellent performance for heating systems, however this performance can be impaired if the central heating system is not cared for. Radiators usually account for the largest surface area of a central heating system where they act as heat emitters but they are usually made up of mild steel which can corrode easily if left untreated.

Even when a corrosion inhibitor is added to the system, low levels of corrosion can still occur, forming magnetite; a black sludge like substance. Magnetite particles can be dispersed throughout the system causing blockages or restrictions that can result in a loss of performance and homeowner comfort; and can also lead to premature failure of valves and pumps which can be costly.

The Vokèra Magnetic Filter is compatible with all Vokèra domestic boilers, it collects waterborne magnetite particles and any other debris that has been left within a system, offering additional protection and restoring efficiency without reducing the flow rate through the system. Easy to install on both horizontal and vertical pipe runs, the Magnetic Filter's base mounted isolation valve also aids servicing and the easy discharge of the particles collected.

Vokèra Fuelsaver

The Vokèra Fuelsaver passive flue gas heat recovery system consists of a post heat exchanger device that is located between the boiler and the flue terminal and offers the potential to increase efficiency by capturing heat recovered from the flue exhaust gases that would normally be wasted. This captured heat is then used to pre-heat the incoming cold mains water supply before it enters the boiler, thereby reducing gas consumption and improving domestic hot water efficiency.

The addition of a Vokèra Fuelsaver can save up to 33% of the gas normally required for DHW; save up to 500kg carbon emissions annually and reduces cold water wastage by 5% annually due to the inlet water being pre-heated.

For more information on the Fuelsaver see page 8.

Intelligent controls

Vokèra boilers boast some of the latest innovations in technology, including OpenTherm, that help maximise efficiency. We are committed to making our controls as straight forward as possible so we have incorporated this technology into the complete Vokèra combination boiler range so that they are compatible with Vokèra OpenTherm controls and devices. The OpenTherm 7 day programmable room thermostat has been configured for the Unica i range and has a Plug & Play Tyco connection on the receiver that enables the simplest of installation to the boiler. For installation to other Vokèra ranges the Tyco connection simply needs to be re-configured or removed.

Wireless OpenTherm Control - Transmitter
Wall mounted wireless RF Transmitter (shown)

The installation of a Vokèra intelligent control provides a more comfortable and stable room temperature for the end user, in addition to helping reduce fuel bills. When installed with the Unica i, the correct use of the Vokèra OpenTherm control can save up to £67 of a home's annual energy bill[*].

Most of Vokèra's current boiler range also comes with pre-configured weather compensating technology, allowing you to install the Vokèra weather compensation control with the simple addition of an external sensor.

Gas Safe Registered Installers: For a step by step video on the installation of an OpenTherm control visit the Vokèra YouTube channel, **search Vokera Ltd.**

Wireless OpenTherm Control - Receiver
Tyco Plug & Play connection on wireless OT Receiver and Unica i boiler for a simple installation.

For more information on the range of Vokèra controls see page 33.

[*]Energy saving based on average 18,000kWh per annum

Renewable technology

Our MCS approved high grade Zenith solar thermal collectors maximise energy efficiency and meet the approved standard of BS EN12975 and have the Solar Keymark seal of approval.

Both the Zenith solar thermal collectors and AriaPRO range are MCS approved, demonstrating their quality and reliability.

The Zenith solar thermal flat plate collectors are backed by a 10 year warranty and the evacuated tube collectors and AriaPRO air source heat pumps with a 2 year warranty.

Zenith flat plate and evacuated tube solar thermal collectors

High Power Commercial Heating Products

The CondexaPRO, a long established product range within Vokèra, makes true plant-room efficiency simple. The high reliability of products, the availability of a comprehensive line of specific accessories, the ease of mounting and the maximum flexibility, make the Vokèra CondexaPRO systems the best solution both for large domestic properties and commercial buildings, including hotels, schools, office-buildings, factories and sports centres.

CondexaPRO products are suitable both for new buildings, as a replacement of old floor-standing boilers, and thanks to their modularity they offer the highest efficiency at any time combined with the maximum peace of mind. The availability of two different heat exchangers, giving nominal outputs of 50kW and 128kW, offer a number of practical boiler variations and even more cascade configurations, up to 6.9MW, all available as natural gas or LPG.

The expert Vokèra service team are also able to provide a commissioning service for CondexaPRO boiler installations.

CondexaPRO wall hung condensing boilers

CondexaPRO box floor standing units. Available for internal and external installations.

Pre sales support for domestic renewable installations and commercial applications

The Vokèra pre sales support team offers advice on a range of products and applications to engineers, architects, specifiers and developers, ensuring you get the correct guidance and reassurance when choosing a solution for your project.

To ensure that your installation is reaching its energy efficiency potential the correct product and output must be specified. The Vokèra pre sales team will carry out a complete survey of your project and provide a bespoke report detailing the energy efficiency and potential energy savings of the installation, a complete bill of materials, and they can also provide on-site assistance and support with product assembly and commissioning.

Contact the Vokèra pre sales team: **pre-sales@vokera.co.uk**

Fuelsaver
Passive Flue Gas Heat Recovery Device
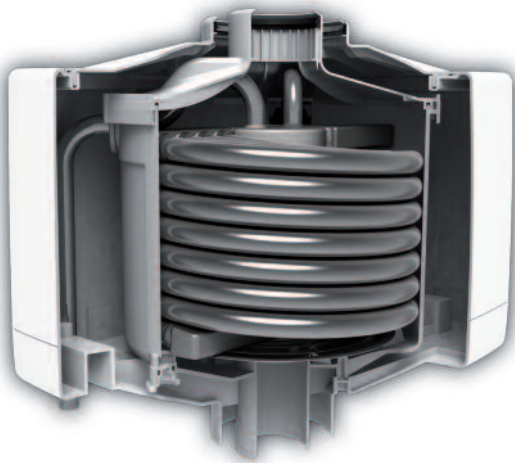
The Vokèra Fuelsaver is a Passive Flue Gas Heat Recovery (PFGHR) device and can be fitted to a new or existing condensing Vokèra Vision, Unica i or Compact A combi boiler.

The post heat exchanger device is located between the boiler and flue terminal. The device offers the potential to increase efficiency by capturing some of the heat in boiler flue gases that would normally be wasted. It uses this extracted heat to reduce the amount of fuel that has to be burned when providing hot water.

5 year parts and labour warranty.[1]

Gas consumption is reduced saving up to 33% of the gas normally required for DHW.

Reduces carbon emissions by up to 500kg annually.

Cold water wastage is significantly reduced by 5% annually due to the inlet water being pre-heated.

Specifically developed to meet new build requirements with low water content ensuring optimum performance.

Listed on PCDB and validated for SAP 2009 - helps to meet the requirements of higher levels of the Code of Sustainable Homes on new dwellings.

Easy to install – low lift weight and adjustable wall bracket simplifies installation. Designed as a 'bolt-on' product, the Fuelsaver unit is secured to the wall and is connected directly to the appliance flue outlet. Thereafter the flue system is installed just as it would be in a normal installation.

Extremely low temperature at flue outlet, virtually eliminates any nuisance pluming.

No separate condensate required as condensate fluid is collected and discharged via the boiler.

Can be used on both horizontal and vertical flue configurations minimising impact on the siting of the installation.

Compatible with Vokèra's 60/100mm concentric flue system.

No moving parts eliminates the need for annual servicing or maintenance and permits silent operation.

Compatible with weather compensation sensor to further improve efficiency.

Compatible with other renewable technologies.

WRAS approved product.

Does not require any electrical supply so has zero parasitical energy consumption.

*Gas Safe Registered installers require no additional trades, skill or qualifications to install the Vokèra Fuelsaver.

For more information watch our short video on the Fuelsaver by visiting our YouTube channel, **search VokeraLtd.**

| REDUCES GAS CONSUMPTION BY UP TO 33%	REDUCES CARBON EMISSIONS BY UP TO 500KG	(1) 5 YEAR WARRANTY	LISTED ON PCDB AND VALIDATED FOR SAP 2009
REDUCES COLD WATER WASTAGE BY 5%	NO ADDITIONAL QUALIFICATIONS NEEDED*	COMPATIBLE WITH UNICA I, VISION C AND COMPACT A BOILERS	EASY TO INSTALL WITH ADJUSTABLE BRACKET

[1] Subject to registration and annual service.

Fuelsaver Installation

*Compatible with Vokèra Unica i,
Vision C and Compact A combi boilers

Hot flue gases

Condensing boiler*

Outlet pre-heated water
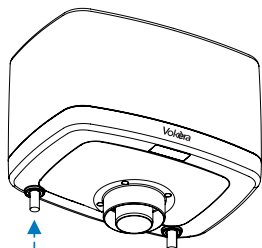
Inlet mains cold water

Heating

Domestic hot water

Mains cold water
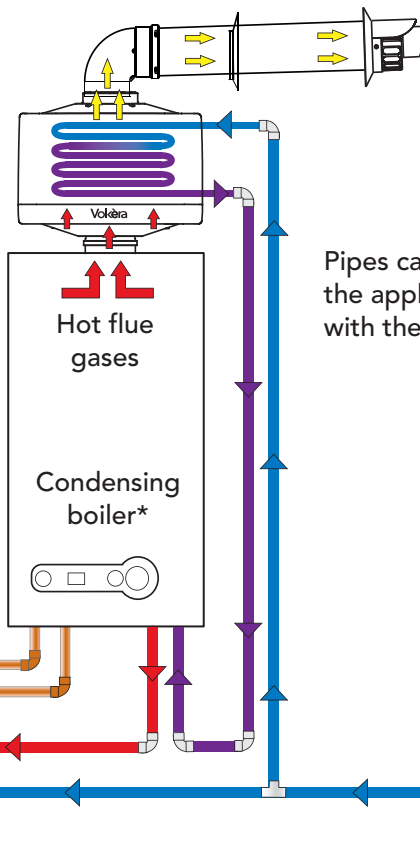
Pipes can run neatly behind the appliance when fitted with the boiler spacing frame

SPECIFICATIONS

SPECIFICATIONS	Fuelsaver
Product order code	29450000
Efficiency Savings	
Gas Saving	Up to 33%
Carbon Saving (annual)	Up to 500kg
Water Saving (annual)	Over 5%
Dimensions and Weights	
Dimensions (HxWxD)	276 x 376 x 262
Lift weight empty (kg)	6.6
Lift weight full (kg)	9.4
Flue Details (concentric 60/100mm)	
Unica i28 max horizontal / vertical flue length	3.95m / 4.95m
Unica i32 max horizontal / vertical flue length	3.95m / 4.95m
Unica i36 max horizontal / vertical flue length	3.95m / 4.95m
Vision 25C max horizontal / vertical flue length	2m / 3m
Vision 30C max horizontal / vertical flue length	1m / 2m
Compact 25A max horizontal / vertical flue length	2m / 3m
Compact 29A max horizontal / vertical flue length	1m / 2m

FLUE OPTIONS AND ACCESSORIES

Description	Code
Blending valve	1150529
Telescopic horizontal flue terminal (60/100mm)	29450121
Horizontal flue terminal (60/100mm)	29450120
Vertical flue terminal (60/100mm)	29450122

See page 32 for a full list of 60/100mm flue accessories

DIMENSIONS AND CLEARANCES

'x'

'z'

'y'

276mm

262mm

376mm
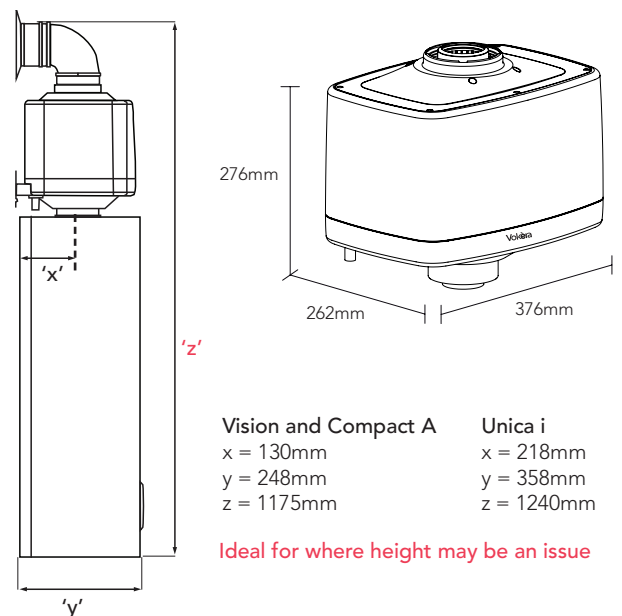
Vision and Compact A
x = 130mm
y = 248mm
z = 1175mm

Unica i
x = 218mm
y = 358mm
z = 1240mm

Ideal for where height may be an issue

Clearances for all boilers and Fuelsaver

Front: 600mm   Bottom: 150mm
Sides: 12mm   Top: 150mm*

*From casing or 25mm above flue elbow, whichever is applicable.

Linea One
High efficiency combi boiler

Fully compliant with the Energy-related Products Directive. Further efficiency can be achieved when installed with a weather compensation sensor or OpenTherm control.

5 year parts and labour warranty[1].

Flow rate of up to 15.6 l/min results in quick delivery of hot water and meets NHBC performance requirements for combi boilers in properties with multiple bathrooms.

Weather compensation control, supplied as standard, can increase ErP space heating efficiency by a further 2%

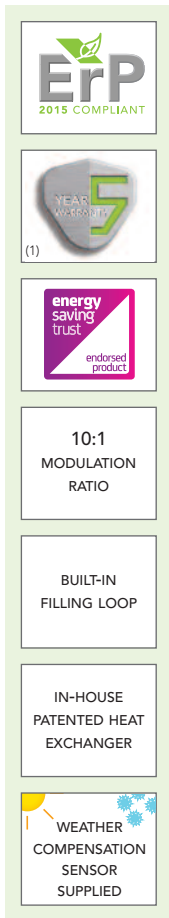DHW memory function memorises the DHW usage pattern over the past seven days and uses the stored data to plan the pre heat function for the duration of the following week. The standard pre heat function is therefore only enabled when necessary, maximising energy savings.

Fully modulating pump can be controlled using several modes of operation and can reduce electrical consumption by up to 50%.

Exceptional modulation ratio of 10:1 maximises efficiency and comfort for end user.

Designed for easy installation. A pre-fixing jig and built-in filling loop allows the system to be connected and tested without the boiler needing to be in place.

The easy to use appliance interface and controls permits the end user to view, change and adjust the operating modes of the boiler.

Versatile flue options with concentric flue lengths up to 12m and twin flue lengths up to 30m.

Use the Vokèra push fit telescopic flue for a quick and simple installation.

Built-in frost protection, protects the appliance from damage during periods of cold weather.

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Anti-seize function protects the pump and motorised valve from sticking during long periods of inactivity.

Self-start programming protects the pump and motorised valve from sticking during long periods of inactivity.

Vokèra's unique radial design heat exchanger utilises an extruded aluminium alloy. Aluminium has excellent thermal transfer properties and our updated design incorporates a new profile that inhibits the build-up of condense residues, thereby significantly reducing the frequency of cleaning.

Easy to understand diagnostic display speeds installation and commissioning and aids the service engineer in the unlikely event of a fault developing.

Enhanced Autostop disabling function with four optional modes of operation, including: service reminder, reducing the output of the boiler, supply DHW only and moving the boiler into standby mode (no heat or DHW)[2].

Can be converted to LPG.

Low NOx – Class 5 performance with only 19mg/kWh.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
OpenTherm RF programmable room thermostat	20050690
Wiring Kit for use with OpenTherm	1221179
Telescopic flue terminal	29450121
Spacing frame	435
Condense pump	404
Linea One LPG conversion kit	20031415
Magnetic filter	29450199

[1] Subject to registration and annual service. [2] Autostop activation device required. Contact Vokèra technical for advice

Flue thermostat

Aluminium radial heat exchanger

Easy maintenance condensate siphon

Analogue pressure gauge

Anti-seize function on 3-way valve

Innovative hydraulic manifold in composite material for quick and easy maintenance

Automatic by-pass

Electric insulation IPX5D

Flue gas analysis test point

Cyclonic separator

Condensate level sensor

Premix burner

Fully modulating pump

DHW flow meter

Frost protection via PCB
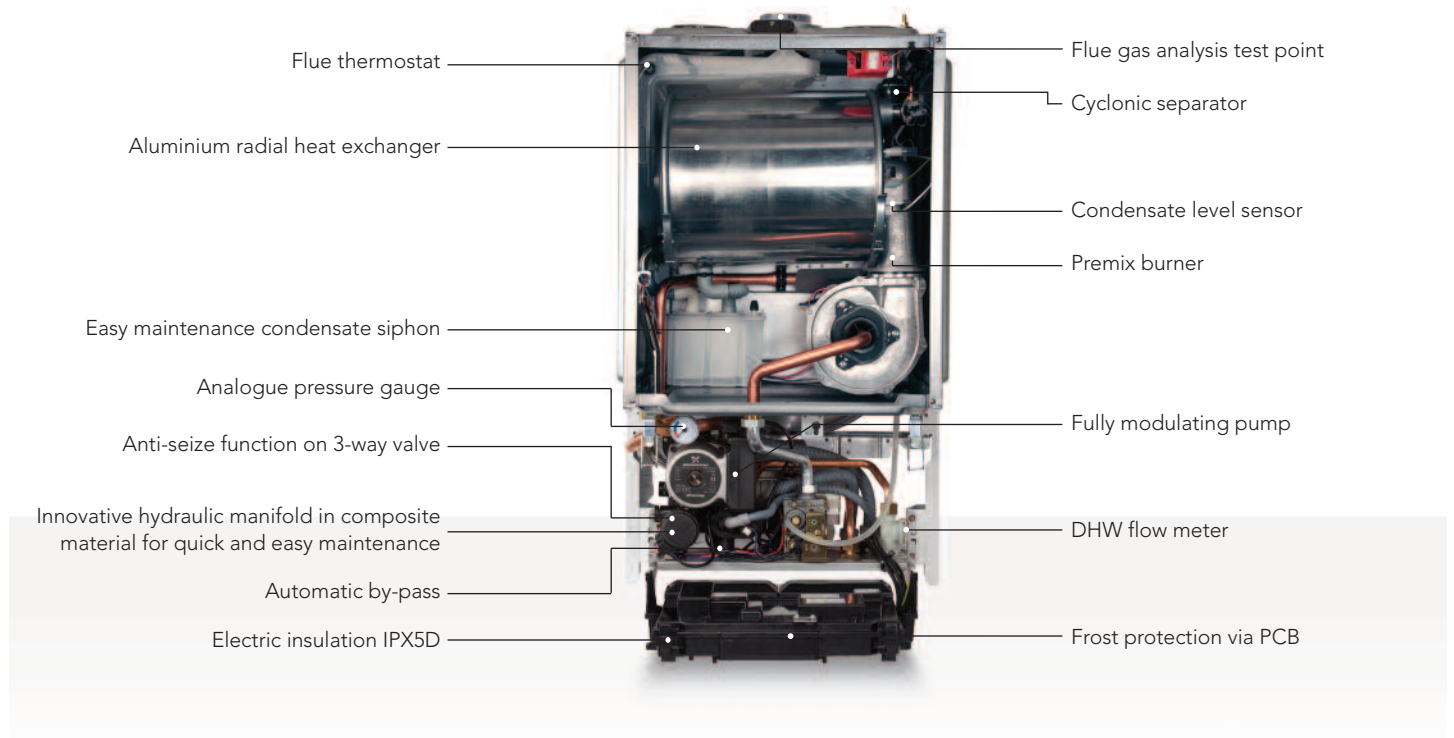
SPECIFICATIONS

SPECIFICATIONS	Linea One 38HE
Product order code	20023491
Central Heating	
Heat input (kW)	30
Maximum heat output @ 80/60°C (kW)	29.3
Maximum heat output @ 50/30°C (kW)	32
Minimum heat output @ 80/60°C (kW)	3.8
Minimum heat output @ 50/30°C (kW)	3.8
Domestic Hot Water	
Maximum heat input (kW)	38.1
Minimum heat input (kW)	3.8
Flow Rate - 35°C rise (l/min)	15.6
Minimum flow rate (l/min)	2.0
Weight	
Dry weight (kg)	44
Connections	
Flow & return	22mm
Gas	15mm
DHW inlet & outlet	15mm
Safety valve	15mm
Condense	21mm
Electrical	
Voltage (V/Hz)	230/50
Flue Details (concentric)	
Maximum horizontal flue length (60/100mm)	3.85m
Maximum vertical flue length (60/100mm)	4.85m
Maximum horizontal flue length (80/125mm)	10m
Maximum vertical flue length (80/125mm)	12m
Flue Details (twin pipes)	
Maximum horizontal flue length (80mm/80mm)	30m/30m
Maximum vertical flue length (80mm/80mm)	30m/30m
Efficiency	
ErP seasonal space heating energy efficiency (class/%)	A/93
ErP water heating efficiency (XL profile) (class/%)	A/83
SAP 2009 efficiency (%)	89.2
NOx class	5

DIMENSIONS AND CLEARANCES (MM)

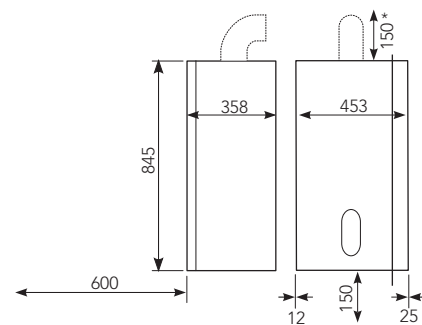
358
453
845
600
150
150
12
25

*From casing or 25mm above flue elbow (whichever is applicable)

ENVIRONMENTALLY FRIENDLY

Vokèra is committed to creating the most environmentally friendly products available and continue to invest in limiting emissions such as CO_2 and NOx. The Linea One boasts both impressive energy efficiency ratings and has the best class for NOx emissions.

Up to 93% efficient, the Linea One is an industry leader and one of the most energy efficiency combination boilers currently available. With up to 93% of the fuel used being converted into heat, emissions are kept to a minimum.

NOx Class 5
at only 29mg/kWh

To achieve maximum credits with a condensing boiler, under the Code for Sustainable Homes the NOx must be below 40mg/kWh. Significant research and development have enabled the Linea One to declare a NOx emissions of only 29mg/kWh.

Unica i
High efficiency combi boiler

ErP
2015 COMPLIANT

5 YEAR WARRANTY
(1)

energy saving trust
endorsed product

10:1
MODULATION
RATIO

REAR
FLUE
OPTION

PRE-FIXING JIG
AND BUILT-IN
FILLING LOOP

PLUG & PLAY
CONNECTION TO
OPENTHERM
THERMOSTAT

Fully compliant with the Energy-related Products Directive. Further efficiency can be achieved when installed with a weather compensation sensor or OpenTherm control.

5 year parts and labour warranty.[1]

Energy Saving Trust endorsed product.

Rear flue option as well as the standard top flue option provides a versatile installation. Other flueing options available are; horizontal, vertical and twin flue, enabling the boiler to be sited almost anywhere in the home.

Versatile flue options with concentric flue lengths up to 20m and twin flue lengths up to 45m.

Exceptional modulation ratio of 10:1 maximises efficiency and comfort for end-user. Other energy saving features, including low power consumption, making the Unica i extremely efficient.

Compatible with energy saving controls including outside weather compensation sensor and OpenTherm programmable thermostat with 'Plug & Play' connection for a simple installation. **Unica i32 achieves an ErP A+ system rating** with these controls (see page 35 for further information).

Designed for easy installation. A pre-fixing jig and built-in filling loop allows the system to be connected and tested without the boiler needing to be in place.

Improved fixing jig that can be discarded once the pipework is in place, providing greater flexibility when connecting the pipework to the boiler which is especially beneficial when there are uneven wall surfaces.

Standard Autostop disabling function[3] that automatically changes the current operating mode and moves it permanently into the standby mode, helping Registered Social Landlords fulfill their legal obligation of an annual gas safety check.

Front mounted heat exchanger assists in simple maintenance.

Vokèra's unique radial design heat exchanger utilises an extruded aluminium alloy. Aluminium has excellent thermal transfer properties and our updated design incorporates a new profile that inhibits the build-up of condense residues, thereby significantly reducing the frequency of cleaning.

Simple to use back-lit LCD display ensures end-users can easily operate and adjust the appliance.

Easy to understand diagnostic display aids the service engineer in the unlikely event of a fault developing.

Built-in frost protection protects the appliance from damage during periods of cold weather.

Low NOx - Class 5 performance provides maximum credits available for a condensing boiler under the Code for Sustainable Homes.

Can be converted to LPG.

Compatible with Vokèra Fuelsaver passive flue gas heat recovery device. Heat recovered from the flue exhaust gases is used to pre-heat the incoming cold mains water supply before entering the boiler, thereby reducing gas consumption and improving domestic hot water efficiency.

[1]Subject to registration and annual service. [2]Energy saving based on average 18,000kWh per annum. [3]Autostop activation device required. Contact Vokèra technical for advice.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Rear flue terminal	29450133
Telescopic flue terminal	29450121
OpenTherm RF programmable room thermostat with 'Plug & Play' connection to the Unica i	20050690
Weather compensation sensor	2359259
White pipe cover 400mm	518
Spacing frame	435
Magnetic filter	29450199
Fuelsaver	29450000

Flue gas analysis test point

Aluminium radial heat exchanger

Premix burner

Cyclonic separator

Condensate level sensor

Easy maintenance condensate syphon

DHW plate heat exchanger

High efficiency pump

Automatic by-pass

Analogue pressure gauge

Electric insulation IPX5D

Frost protection via PCB

SPECIFICATIONS	Unica i28	Unica i32	Unica i36
Product order code	20097273	20097274	20097275
Central Heating			
Heat input (kW)	20	25	30
Max heat output @ 80/60°C (kW)	19.6	24.6	29.3
Domestic Hot Water			
Heat input (kW)	28	32	36
Flow Rate - 35°C rise (l/min)	11.5	13.1	14.7
Weight			
Dry weight (kg)	40	42	41
Connections			
Flow & return	22mm	22mm	22mm
Gas	15mm	15mm	15mm
DHW inlet & outlet	15mm	15mm	15mm
Safety valve	15mm	15mm	15mm
Electrical			
Voltage (V/Hz)	230/50	230/50	230/50
Flue Details (concentric)			
Maximum horizontal flue[4] length inc. rear flue (60/100mm)	7.8m	7.8m	7.8m
Maximum vertical flue[4] length (60/100mm)	8.8m	8.8m	8.8m
Maximum horizontal flue length (80/125mm)	20m	20m	14.85m
Maximum vertical flue length (80/125mm)	25m	25m	19.85m
Flue Details (twin pipes)			
Max horizontal (80mm/80mm)	45m/45m	45m/45m	45m/45m
Max vertical (80mm/80mm)	45m/45m	45m/45m	45m/45m
Efficiency			
ErP seasonal space heating energy efficiency (class/%)	A/93	A/94	A/93
ErP water heating efficiency (XL profile) (class/%)	A/85	A/84	A/84
SAP 2009 efficiency (%)	89.6	89.6	89.2
NOx class	5	5	5

DIMENSIONS AND CLEARANCES (MM)
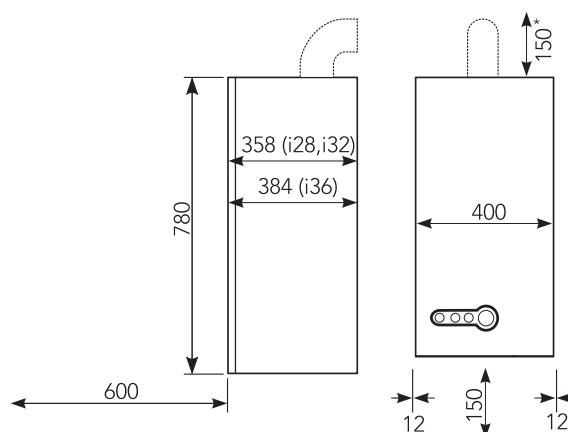
358 (i28,i32)
384 (i36)
780
600
150*
400
150
12
12

*From casing or 25mm above flue elbow (whichever is applicable)

ADDITIONAL ENERGY SAVING OPTIONS

The Unica i combi range is compatible with the Vokèra Fuelsaver passive flue gas heat recovery device.

The Fuelsaver consists of a post heat exchanger device that is located between the boiler and the flue terminal and offers the potential to increase efficiency by capturing heat recovered from the flue exhaust gases that would normally be wasted. This captured heat is then used to pre-heat the incoming cold mains water supply before entering the boiler, thereby reducing gas consumption and improving domestic hot water efficiency.

The addition of a Vokèra Fuelsaver can:

- Save up to **33%** of the gas normally required for DHW

- Saves up to **500kg** carbon emissions annually

- Reduces cold water wastage by **5%** annually due to the inlet water being pre-heated

[4] Deduct 3.85m from the maximum flue length when installed with Fuelsaver.

General Enquiries: 0844 391 0999   enquiries@vokera.co.uk   www.vokera.co.uk

Vision C
High efficiency combi boiler
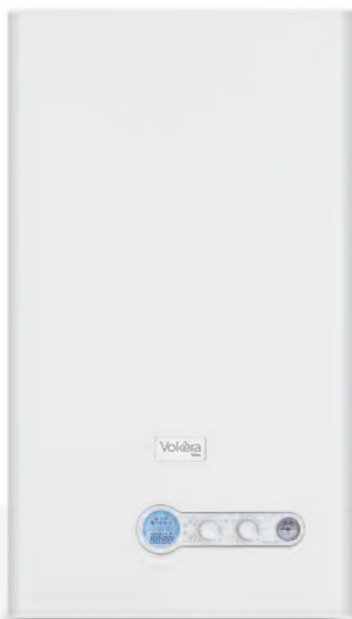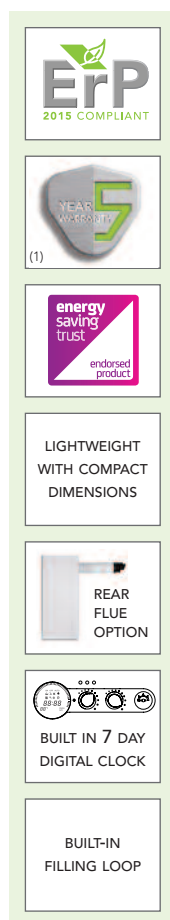
Fully compliant with the Energy-related Products Directive. Further efficiency can be achieved when installed with a weather compensation sensor or OpenTherm control.[1]

5 or 7 year parts and labour warranty.[2]

Simple to use built-in 7 day digital clock with three modes of operation and back-lit LCD display enables full control of heating times over a seven day period, maximising control and saving energy.

Flow rate of up to 12 l/min results in quick delivery of hot water.

DHW Pre-Heat function that is easily activated by the end-user.

Small dimensions enable the boiler to be sited almost anywhere in the home, including within a kitchen cupboard.

Rear flue option as well as the standard top flue option provides a versatile installation. Other flueing options available are; horizontal, vertical and twin flue.

Lightweight at only 27kg for the 25C enables the boiler to be lifted into place easily, even in tight spaces.

Designed for easy installation. Standard Vokèra pipework layout enables trouble-free replacement of older Vokèra models.

Standard Autostop disabling function[3] that automatically changes the current operating mode and moves it permanently into the standby mode, helping Registered Social Landlords fulfill their legal obligation of an annual gas safety check.

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Additional built-in functions include: SARA function for automatic temperature control and improved efficiency, anti-cycling for longer lasting component performance, frost protection and CO mode for simple servicing.

If the boiler is to be installed in a location that is difficult to access then Vokèra's optional RF room thermostat control can be installed in a convenient location so the heating temperature can easily be adjusted.

Anti-cycling control prevents wasteful on/off cycling reduces wear and tear for longer lasting component performance.

Low NOx - Class 5 performance. Only 19mg/kWh for 25C provides maximum credits available for a condensing boiler under the Code for Sustainable Homes.

Can be converted to LPG.

Vision system boiler also available.

Compatible with Vokèra Fuelsaver passive flue gas heat recovery device which is listed on the PCDB and validated for SAP 2009.

KITCHEN CUPBOARD FIT

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Rear flue terminal	29450133
Pipe cover	20012594
RF Room thermostat control	20059642
OpenTherm RF programmable room thermostat[4]	20050690
Weather compensation sensor[4]	2359259
Spacing frame	20030704
Magnetic filter	29450199
Fuelsaver	29450000

[1]The addition of an energy saving control will override the built-in digital control settings on the Vision Combi. For Vision System boilers please contact Vokèra technical for advice, controls heat only. [2]Subject to registration and annual service, 7 year warranty offer valid for a promotional period, terms and conditions apply. [3]Autostop activation device required. [4]Control Interface required for use with OpenTherm and weather compensation controls. Code 29450143

Flue gas analysis test point

Cyclonic separator

Premix burner

Aluminium heat exchanger

Expansion vessel location allows for easy servicing maintenance

High efficiency pump

Electric insulation IPX5D

DHW plate heat exchanger

Frost protection via PCB

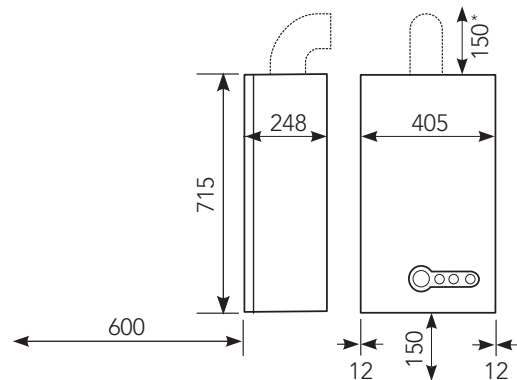| SPECIFICATIONS	Vision 25C	Vision 30C
Product order code - 5 year warranty	20097278	20099224
Product order code - 7 year warranty	29450501	29450502
Central Heating		
Max heat input (kW)	20	25
Maximum heat output @ 80/60°C (kW)	19.5	24.5
Domestic Hot Water		
Maximum heat input (kW)	25	29
Flow Rate - 35°C rise (l/min)	10.2	12
Weight		
Dry weight (kg)	27	28
Connections		
Flow & return	22mm	22mm
Gas	15mm	15mm
DHW inlet & outlet	15mm	15mm
Safety valve	15mm	15mm
Flue details (concentric)		
Maximum horizontal flue length[5] inc. rear flue (60/100mm)	5.85m	4.85m
Maximum vertical flue length[5] (60/100mm)	6.85m	5.85m
Maximum horizontal flue length (80/125mm)	15.3m	12.8m
Maximum vertical flue length (80/125mm)	20.3m	17.8m
Flue Details (twin pipes)		
Maximum horizontal flue length (80mm/80mm)	45m/45m	40m/40m
Maximum vertical flue length (80mm/80mm)	45m/45m	40m/40m
Efficiency		
ErP seasonal space heating energy efficiency (class/%)	A/93	A/93
ErP water heating efficiency (XL profile) (class/%)	A/85	A/84
SAP 2009 efficiency (%)	89.1	89.0
NOx class	5	5

[5]Deduct 3.85m from the maximum flue length when installing with the Vokèra Fuelsaver passive flue gas heat recovery device.

DIMENSIONS AND CLEARANCES (MM)

150*

248

405

715

600

150

12

12

*From casing or 25mm above flue elbow (whichever is applicable)

ADDITIONAL ENERGY SAVING OPTIONS

The Vision combi range is compatible with the Vokèra Fuelsaver passive flue gas heat recovery device.

The Fuelsaver consists of a post heat exchanger device that is located between the boiler and the flue terminal and offers the potential to increase efficiency by capturing heat recovered from the flue exhaust gases that would normally be wasted. This captured heat is then used to pre-heat the incoming cold mains water supply before entering the boiler, thereby reducing gas consumption and improving domestic hot water efficiency.

The addition of a Vokèra Fuelsaver can:

- Save up to **33%** of the gas normally required for DHW

- Saves up to **500kg** carbon emissions annually

- Reduces cold water wastage by **5%** annually due to the inlet water being pre-heated

Compact A
High efficiency combi boiler

Fully compliant with the Energy-related Products Directive. Further efficiency can be achieved when installed with a weather compensation sensor or OpenTherm control.

Small dimensions enable the boiler to be sited almost anywhere in the home, including within a kitchen cupboard.

Rear flue option as well as the standard top flue option provides a versatile installation. Other flueing options available are; horizontal, vertical and twin flue, enabling the boiler to be sited almost anywhere in the home.

Easy to understand diagnostic display aids the service engineer in the unlikely event of a fault developing.

2 year parts and labour warranty.[1]

Energy Saving Trust endorsed product.

Compact dimensions and low lift weight at only 26kg for the 25A enables a flexible installation allowing the boiler to be lifted into place easily, even in tight spaces.

Attach the RF 7 day programmable room thermostat, with a Tyco Plug & Play connection for a simple installation, to increase efficiency and maintain optimum room temperature.

Designed for easy installation. Standard Vokèra pipework layout enables trouble-free replacement of older Vokèra models.

Hot water survivor function: If the hot water thermistor fails it will use the primary thermistor to provide hot water to ensure the end user has access to a supply of warm water.

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Anti-cycling control prevents wasteful on/off cycling and reduces wear and tear.

Low NOx - Class 5 performance.

Built-in frost protection, protects the appliance from damage during periods of cold weather.

Plated heat exchanger reduces the risk of scaling and comes with 5 year anti-scale warranty.

Installation time saving features:- Built-in condense trap with safety device and push-fit connection and no ventilation is required.

Combustion analysis test point for easy servicing and maintenance.

Can be converted to LPG.

Selectable pre-heat function enables end-users to manually select the pre-heat function according to their own individual tastes and requirements, improving end-user comfort.

Compatible with Vokèra Fuelsaver passive flue gas heat recovery device which is listed on the PCDB and validated for SAP 2009.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Rear flue terminal	29450133
Pipe cover	20012594
7 day RF programmable room thermostat	20059643
OpenTherm RF programmable room thermostat[2]	20050690
Weather compensation sensor[2]	2359259
Compact A 24 hour analogue clock kit	20025085
Telescopic flue terminal	29450121
Spacing frame	20030704
Compact 25A LPG conversion kit	20045569
Compact 29A LPG conversion kit	20029055
Magnetic filter	29450199

[1]Subject to registration and annual service. [2]Control Interface required for use with OpenTherm and weather compensation sensor. Code 29450143.

Flue gas analysis test point

Cyclonic separator

Premix burner

Aluminium heat exchanger

Expansion vessel location allows for easy servicing maintenance

High efficiency pump

Electric insulation IPX5D

DHW plate heat exchanger

Frost protection via PCB
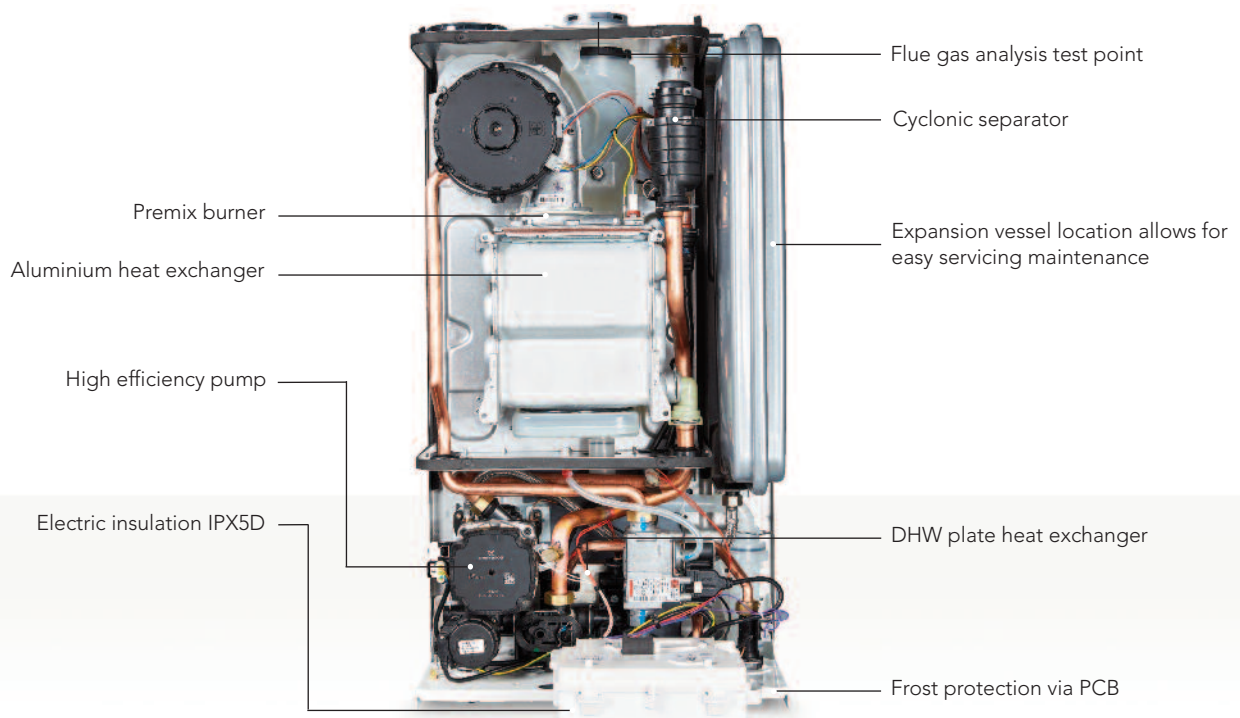
SPECIFICATIONS	Compact 25A	Compact 29A
Product order code	20099226	20099227
Central Heating		
Heat input (kW)	20	25
Max heat output @ 80/60°C (kW)	19.5	24.5
Domestic Hot Water		
Maximum input (kW)	25	29
Flow Rate - 35°C rise (l/min)	10.2	11.9
Weight		
Dry weight (kg)	26	27
Connections		
Flow & return	22mm	22mm
Gas	15mm	15mm
DHW inlet & outlet	15mm	15mm
Safety valve	15mm	15mm
Electrical		
Voltage (V/Hz)	230/50	230/50
Flue details (concentric)		
Maximum horizontal flue length[3] inc. rear flue (60/100mm)	5.85m	4.85m
Maximum vertical flue length[3] (60/100mm)	6.85m	5.85m
Maximum horizontal flue length (80/125mm)	15.3m	12.8m
Maximum vertical flue length (80/125mm)	20.3m	17.8m
Flue Details (twin pipes)		
Maximum horizontal flue length (80mm/80mm)	45m/45m	40m/40m
Maximum vertical flue length (80mm/80mm)	45m/45m	40m/40m
Efficiency		
ErP seasonal space heating energy efficiency (class/%)	A/93	A/93
ErP water heating efficiency (XL profile) (class/%)	A/85	A/84
SAP 2009 Efficiency (%)	89.1	89.0
NOx class	5	5

DIMENSIONS AND CLEARANCES (MM)

150*

248

405

715

600

150

12   150   12

*From casing or 25mm above flue elbow (whichever is applicable)

PLUG & PLAY CONNECTION FOR RF CONTROL

The 7 day RF programmable room thermostat allows easy control over boiler heating timings and temperatures over a 7 day period.

This wall mounted, battery operated, digital thermostat control enables versatile siting and ensures end user accessibility.

The receiver is easily connected to the boiler using the 'Plug & Play' Tyco socket ensuring the simplest of installation.

See page 34 for more information.

[3] Deduct 3.85m from the maximum flue length when installing with the Vokèra Fuelsaver.

Verve
High output heat only boiler

ErP 2015 COMPLIANT

2 YEAR WARRANTY (1)

RADIAL HEAT EXCHANGER

FAMILIAR CHARACTERISTICS TO DOMESTIC BOILERS

EXCELLENT POWER TO WEIGHT RATIO

INTEGRAL PUMP

CASCADES UP TO 200kW

Fully compliant with the Energy-related Products Directive. Further savings can be achieved when installed with a weather compensation sensor or OpenTherm control.

Can be cascaded up to 200kW in wall hung, free standing linear or back to back installations. See the Vokèra Commercial catalogue for more information and example configurations.

2 year parts and labour warranty.[1]

Familiar characteristics to domestic boilers with a large output, enabling it to be installed in large domestic homes or small commercial properties.

Optional hydraulic separator enables the installer to separate the boiler from heating system.

Vokèra strongly recommends the addition of the optional hydraulic separator to ensure that the boiler operates at the required flow-rate, reducing component wear and tear and prevents nuisance shut down.

Isolating valve kit supplied as standard for simple servicing. The flow and return valve kit that enables the boiler to be isolated from the circuit – whether sealed or open-vent – eliminates any need to drain the whole system during servicing.

Addition of the optional three port valve enables the installer to configure different system circuits, including space heating, hot water and low temperature underfloor heating.

Vokèra's unique radial design heat exchanger utilises an extruded aluminium alloy. Aluminium has excellent thermal transfer properties and our updated design incorporates a new profile that inhibits the build up of condense residues, thereby significantly reducing the frequency of cleaning.

The Verve comes with 80mm twin flue outlet allowing the flue to run up to 20m but can easily be converted to a 60/100mm concentric flue or 80/125mm concentric flue, making installations extremely flexible.

Incorporates Vokèra's Cyclonic Separator, providing a significant improvement in the effectiveness of the 'air separator' and can also capture particulates from the system water.

Simple installation with the Verve operating on a standard domestic gas supply, reducing installation preparation.

Low NOx - Class 5 performance.

Combustion analysis test point for easy servicing and maintenance.

Built-in SARA function for improved efficiency, anti-cycling for longer lasting component performance, frost protection and CO mode for simple servicing.

3.5 bar safety pressure relief valve.

Can be converted to LPG.

Built-in thermo-regulation, attach an energy saving control[1] to increase energy efficiency. Compatible with weather compensation sensor and OpenTherm RF control.

No internal expansion vessel but a 24 litre expansion vessel is available as an optional extra and is adequate for most systems.

[1]Subject to registration and annual service. [2]Contact Vokèra technical for advice.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Hydraulic separator	20028475
3 way valve kit for DHW	20028476
B23 air intake kit	20028478
Flue kit adaptor 80/80 - 60/100	20028027
Flue kit adaptor 80/80 - 80/125	20028029
24 litre expansion vessel	20043324
OpenTherm RF programmable room stat[2]	20050690
Weather compensation sensor[2]	2359259
Condense pump	404
Magnetic filter	29450199

Twin flue outlet

Flue gas analysis test point

Aluminium radial heat exchanger

Condensate level sensor

High efficiency pump

Electric insulation IPX5D

Frost protection via PCB

Condense trap

Pressure switch

Safety valve
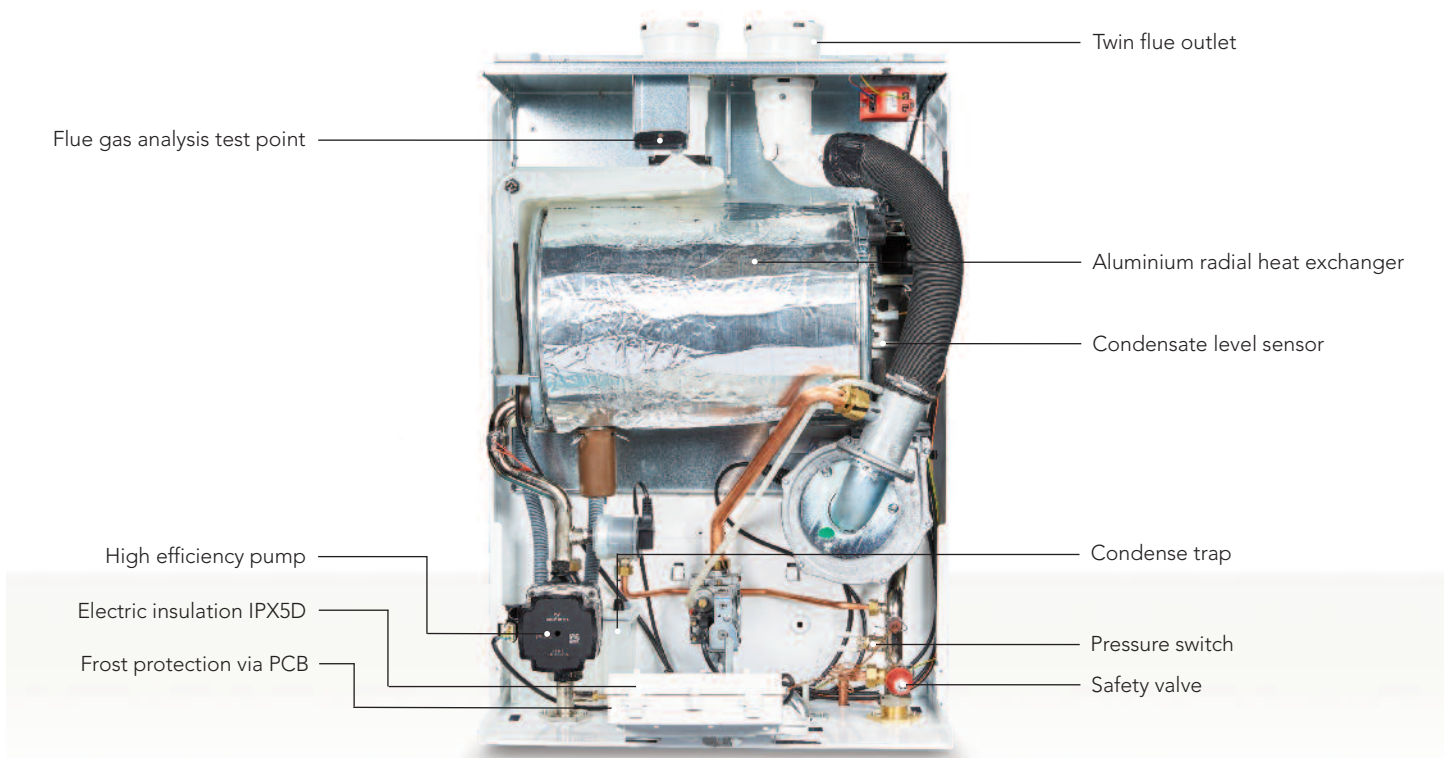
SPECIFICATIONS

SPECIFICATIONS	Verve
Product order code	20102705
Central Heating	
Heat input (kW)	47
Maximum heat output @ 80/60°C (kW)	45.8
Maximum heat output @ 50/30°C (kW)	49.9
Weight	
Dry weight (kg)	39
Connection	
Flow & return	1½"
Gas	22mm
Safety valve	15mm
Condense	21mm
Electrical	
Voltage (V/Hz)	230/50
Flue Details (concentric)	
Maximum horizontal flue length (60/100mm)	1.85m
Maximum vertical flue length (60/100mm)	2.85m
Maximum horizontal flue length (80/125mm)	4.85m
Maximum vertical flue length (80/125mm)	7.0m
Flue Details (twin pipes)	
Maximum horizontal flue length (80mm/80mm)	20m/20m
Maximum vertical flue length (80mm/80mm)	20m/20m
Efficiency	
ErP seasonal space heating energy efficiency (class/%)	A/92
SAP 2009 efficiency (%)	88.9
NOx class	5

DIMENSIONS AND CLEARANCES (MM)

283   553   764   150   600   150   100   100
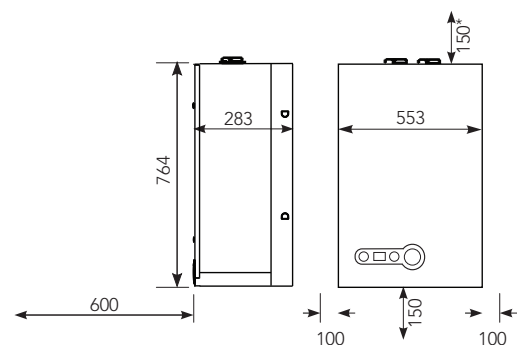
*From casing or 25mm above flue elbow (whichever is applicable)

HIGH POWER DOMESTIC BOILER

The Verve boiler has been designed to provide domestic installers the opportunity to expand their scope of work into large domestic and light commercial applications without having to gain additional commercial qualifications.

Domestic characteristics include Vokèra's unique in-house patented heat exchanger and a similar PCB to that of other Vokèra domestic appliances, ensuring a familiar and simple installation.

Mynute i
High efficiency system boiler
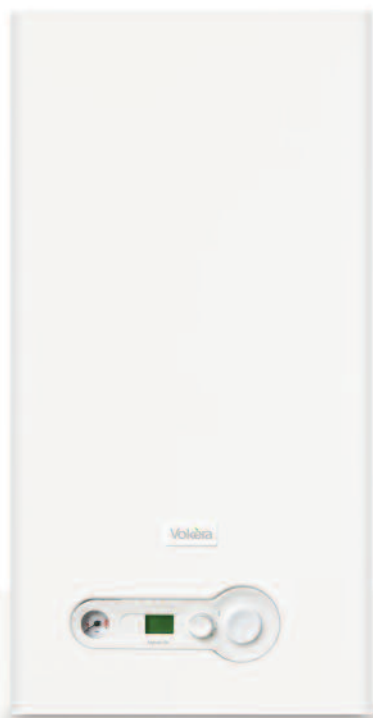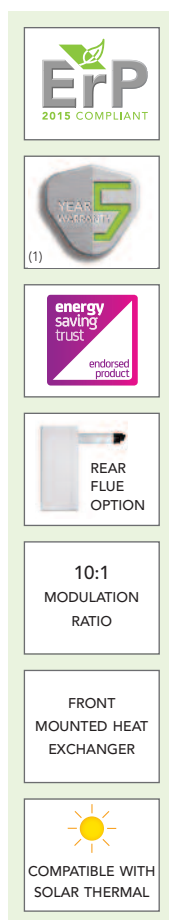
ErP 2015 COMPLIANT

YEAR WARRANTY 5
(1)

energy saving trust endorsed product

REAR FLUE OPTION

10:1 MODULATION RATIO

FRONT MOUNTED HEAT EXCHANGER

COMPATIBLE WITH SOLAR THERMAL

Fully compliant with the Energy-related Products Directive. Further savings can be achieved when installed with a weather compensation sensor or OpenTherm control.

5 year parts and labour warranty.[1]

Exceptional modulation ratio of 10:1 maximises efficiency and comfort for end user.

Simple to use back-lit LCD display ensures end-users can easily operate and adjust the appliance.

Rear flue option as well as the standard top flue option provides a versatile installation. Other flueing options available are; horizontal, vertical and twin flue.

Front mounted heat exchanger assists in simple maintenance. Our in-house patented heat exchanger incorporates a unique radial design utilising an extruded aluminium alloy. Aluminium has excellent thermal transfer properties and our updated design incorporates a new profile that inhibits the build-up of condense residues, thereby significantly reducing the frequency of cleaning.

Built-in relay enables use of a wide variety of external controls and switching devices.

Dual temperature range - easily configured to suit under-floor heating systems, with two built-in temperature ranges to suit either high or low temperature systems.

Low pressure loss reduces noise and increases pump performance.

Designed for easy installation with standard Vokèra pipework layout enabling trouble free replacement of older Vokèra models.

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Low NOx - Class 5 performance.

Anti-seize function protects the pump from sticking during long periods of inactivity.

Anti-cycling control prevents energy wasteful on/off cycling and reduces wear and tear.

Built-in frost protection,which protects the appliance from damage during periods of cold weather.

Standard Autostop disabling function[2] that automatically changes the current operating mode and moves it permanently into the standby mode, helping Social Landlords fulfill their obligation of an annual gas safety check. Autostop will only operate after a pre-defined period of time has elapsed and if it has been activated during commissioning.

Built-in thermo-regulation; attach an energy saving control[4] to increase energy efficiency. Compatible with weather compensation sensor and OpenTherm RF control.

Compatible with Vokèra's MCS accredited Zenith solar thermal collectors.

Can be converted to LPG.

[1]Subject to registration and annual service. [2]Autostop activation device required.
[3]Can be used on heat only appliances, contact Vokèra Technical Helpline for advice.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
OpenTherm RF programmable room thermostat[3]	20050690
Weather compensation sensor[3]	2359259
Relay[3] (for use with weather compensation sensor)	29450144
Spacing frame	2359689
Mynute i LPG conversion kit	20069593
Pipe cover	518
Condensate pump	404
Magnetic filter	29450199

Flue gas analysis test point

Cyclonic separator

Aluminium radial heat exchanger

Premix burner

Condensate level sensor

Easy maintenance condensate syphon

High efficiency pump

Analogue pressure gauge

Electric insulation IPX5D
Frost protection via PCB
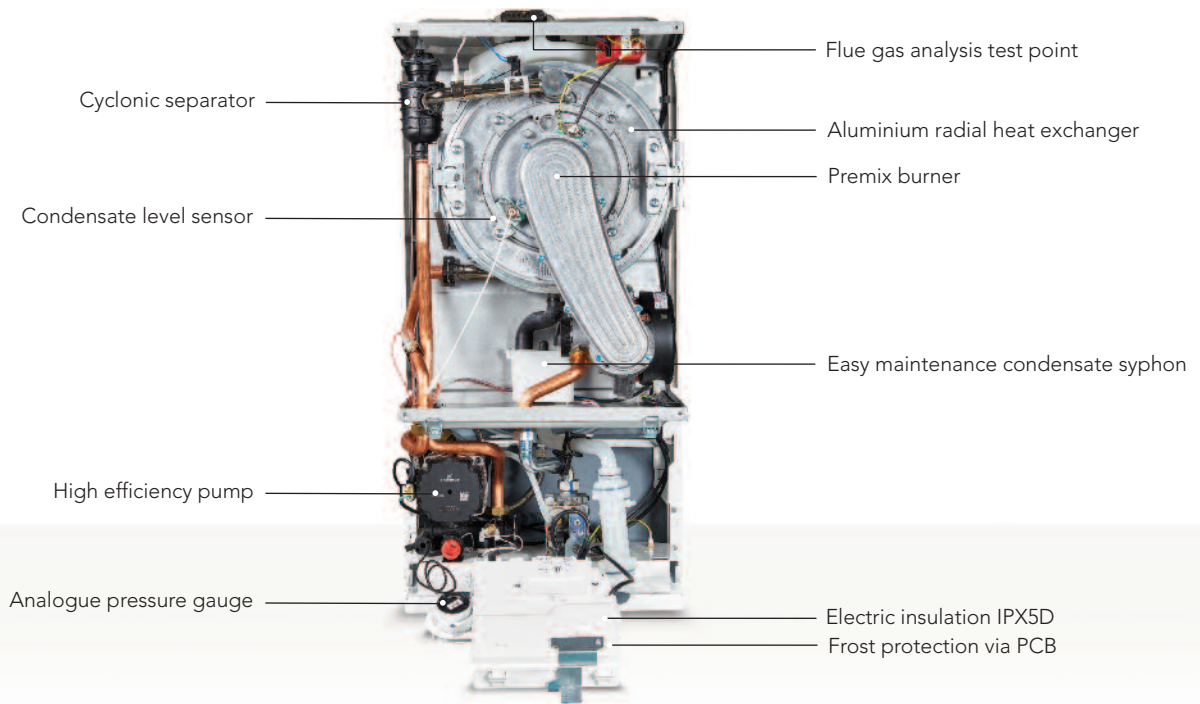
SPECIFICATIONS	Mynute i20	Mynute i30
Product order code	20101253	20101256
Central Heating		
Heat input (kW)	20	30
Maximum heat output @ 80/60°C (kW)	19.6	29.2
Modulation Ratio		
Modulation ratio	10:1	10:1
Weight		
Dry weight (kg)	36	38
Connections		
Flow & return	22mm	22mm
Gas	15mm	15mm
Safety valve	15mm	15mm
Condensate	21mm	21mm
Electrical		
Voltage (V/Hz)	230/50	230/50
Flue details (concentric)		
Maximum horizontal flue length inc. rear flue (60/100mm)	7.8m	7.85m
Maximum vertical flue length (60/100mm)	8.8m	8.85m
Maximum horizontal flue length (80/125mm)	20m	14.85m
Maximum vertical flue length (80/125mm)	21m	15.85m
Flue Details (twin pipes)		
Maximum horizontal flue length (80mm/80mm)	50/50m	38/38m
Maximum vertical flue length (80mm/80mm)	50/50m	38/38m
Efficiency		
ErP seasonal space heating energy efficiency (class/%)	A/93	A/93
SAP 2009 Efficiency (%)	89.5	89.1
NOx class	5	5

DIMENSIONS AND CLEARANCES (MM)

338 (i20)
388 (i30)
400
780
600
150
150
12
12
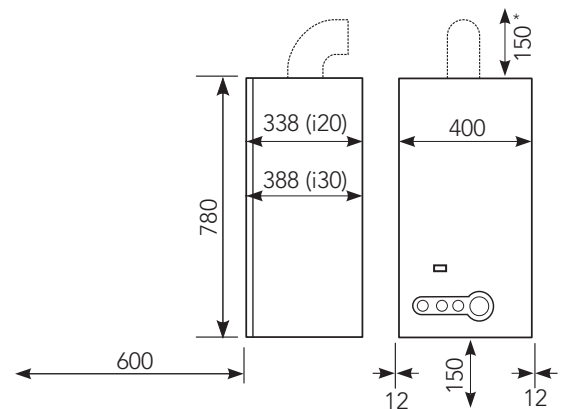
*From casing or 25mm above flue elbow (whichever is applicable)

EASY TO INSTALL AND SIMPLE TO MAINTAIN

The popular and respected Mynute HE range has been redeveloped to create the highly efficient Mynute i system boiler. The Mynute i is extremely energy efficient and is the first Vokèra system boiler to incorporate a 10:1 modulation ratio which provides significant benefits to the end user with the primary advantages being running costs and user comfort.
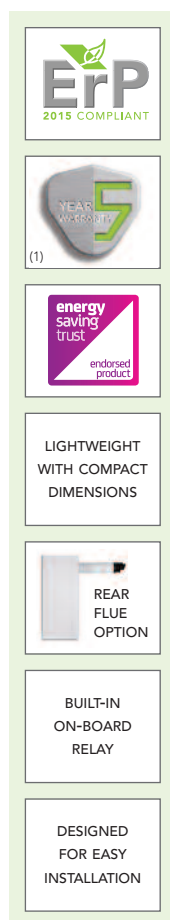
The Mynute i is also the first Vokèra system boiler to incorporate a front mounted heat exchanger which ensures the range is easy to install and simple to maintain.

The versatile flue options simplify installation further and increase siting flexibility. Flue options include a rear flue option and horizontal or vertical flueing options, using Vokèra's concentric or twin flue systems.

Vision S
High efficiency system boiler

ErP 2015 COMPLIANT

5 YEAR WARRANTY (1)

energy saving trust endorsed product

LIGHTWEIGHT WITH COMPACT DIMENSIONS

REAR FLUE OPTION

BUILT-IN ON-BOARD RELAY

DESIGNED FOR EASY INSTALLATION

Fully compliant with the Energy-related Products Directive. Further efficiency can be achieved when installed with a weather compensation sensor or OpenTherm control.

Built-in on-board relay provides the simplest of connections to 230V controls or can be reconfigured for use with weather compensation where voltage-free controls are used.

5 or 7 year parts and labour warranty.[1]

Lightweight at only 26kg for a 20S, its small dimensions enable the boiler to be sited almost anywhere in the home, including a kitchen cupboard.

Designed for easy installation with standard Vokèra pipework layout enabling trouble free replacement of older Vokèra models.

Low NOx - Class 5 performance. Only 19mg/kWh for 20S provides maximum credits available for a condensing boiler under the Code for Sustainable Homes.

Rear flue option as well as the standard top flue option provides a versatile installation. Other flueing options available are; horizontal, vertical and twin flue.

Easy to understand diagnostic display on the facia aids the engineer in the unlikely event of a fault developing.

Standard Autostop disabling function[2] automatically changes the current operating mode and moves it permanently into the standby mode, helping registered social landlords fulfill their legal obligation of an annual gas safety check. Autostop will only operate after a pre-defined period of time has elapsed and if it has been activated during commissioning.

Attach the outside weather compensation sensor or OpenTherm RF programmable room thermostat to the Vision S boiler to further increase energy efficiency and comfort (heating only applications).[3]

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Additional built in functions include: SARA function for automatic temperature control and improved efficiency, anti-cycling for longer lasting component performance and CO mode for simple servicing.

Built-in frost protection, protects the appliance from damage during periods of cold weather.

Low temperature option for under floor heating.

Compatible with Vokèra's unvented single and twin water cylinders.

Compatible with Vokèra's MCS accredited Zenith solar thermal collectors.

Pipe cover (not shown) available as an option extra for a tidy installation.

Can be converted to LPG.

Vision combi boiler also available.

KITCHEN CUPBOARD FIT

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Rear flue terminal	29450133
Pipe cover	20012594
RF Room thermostat control	20059642
OpenTherm RF programmable room thermostat[4]	20050690
Weather compensation sensor[4]	2359259
Spacing frame	20030704
Control interface[5]	29450143
Fuelsaver	29450000

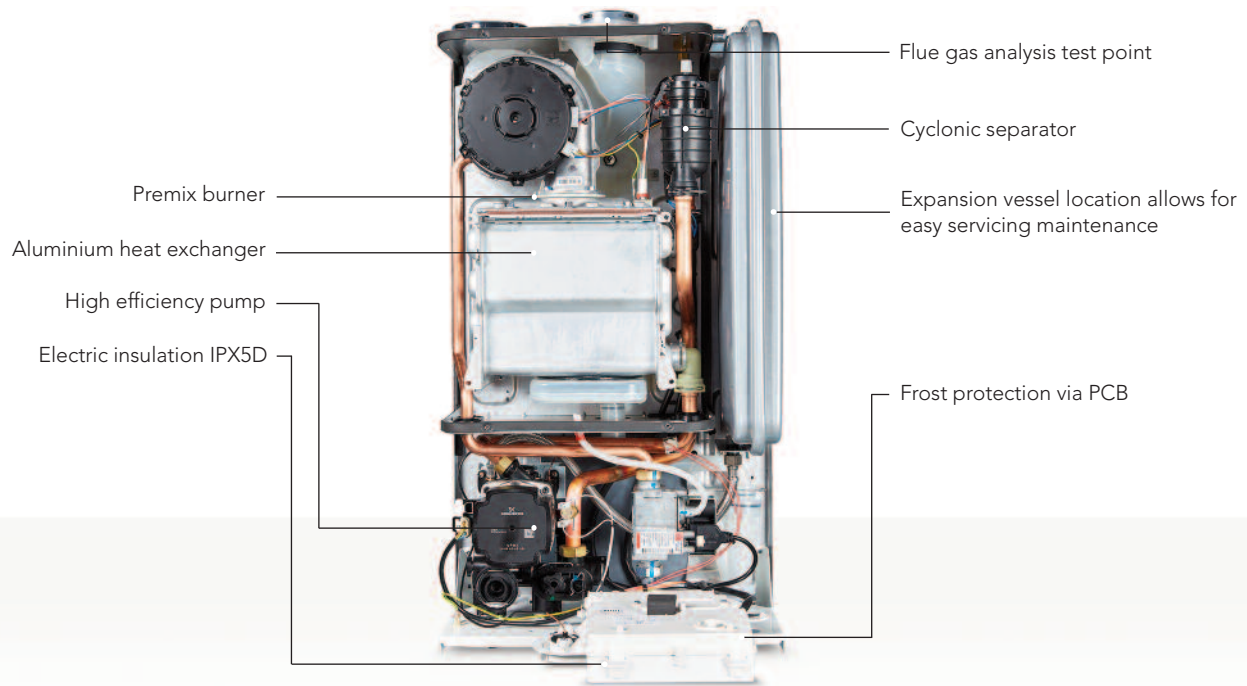[1]Subject to registration and annual service. 7 year warranty available for a promotional period. [2]Autostop activation device required. [3]Can be used on heat only appliances, contact Vokèra Technical Helpline for advice. [4]Contact Vokèra Technical Helpline for advice. [5]Required for use with OpenTherm and weather compensation controls.

Flue gas analysis test point

Cyclonic separator

Premix burner

Aluminium heat exchanger

Expansion vessel location allows for easy servicing maintenance

High efficiency pump

Electric insulation IPX5D

Frost protection via PCB

SPECIFICATIONS	Vision 20S	Vision 25S
Product order code - 5 year warranty	20099228	20099229
Product order code - 7 year warranty	29450503	29450504
Central Heating		
Heat input (kW)	20	25
Maximum heat output @ 80/60°C (kW)	19.5	24.5
Maximum heat output @ 50/30°C (kW)	20.84	26.23
Weight		
Dry weight (kg)	26	27
Connections		
Flow & return	22mm	22mm
Gas	15mm	15mm
Safety Valve	15 mm	15mm
Condensate	21mm	21mm
Electrical		
Voltage (V/Hz)	230/50	230/50
Flue details (concentric)		
Maximum horizontal flue length (60/100mm)	5.85m	4.85m
Maximum vertical flue length (60/100mm)	6.85m	5.85m
Maximum horizontal flue length (80/125mm)	15.3m	12.8m
Maximum vertical flue length (80/125mm)	16.3m	13.8m
Flue Details (twin pipes)		
Maximum horizontal flue length (80mm/80mm)	45m/45m	40m/40m
Maximum vertical flue length (80mm/80mm)	45m/45m	40m/40m
Efficiency		
ErP seasonal space heating energy efficiency (class/%)	A/93	A/93
SAP 2009 efficiency (%)	89.2	89.1
NOx class	5	5

DIMENSIONS AND CLEARANCES (MM)

248

405

150*

715

600

150

12

12
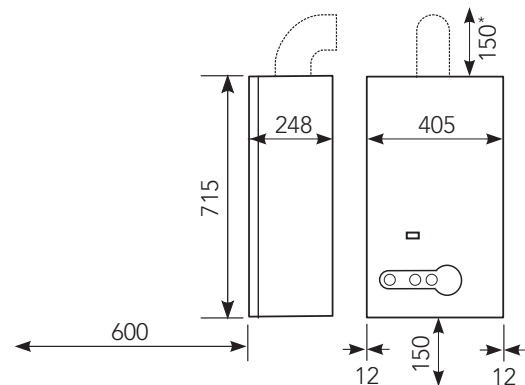
*From casing or 25mm above flue elbow (whichever is applicable)

INSTALLER FRIENDLY AND FEATURE RICH

The new Vision range has been designed to provide installers with a hassle free installation and end users with a simple to operate and reliable appliance.

The small dimensions and lightweight 26kg lift weight (20S), make the Vision boilers very easy to install, even in tight spaces - including a kitchen cupboard. The rear flue option also simplifies installation and increases siting flexibility.

The upgraded Vision system boilers now come with a built in on-board relay which enables the simplest of connections to 230V controls and energy saving controls including the Vokèra weather compensation sensor.

Mynute VHE
High efficiency open vent boiler
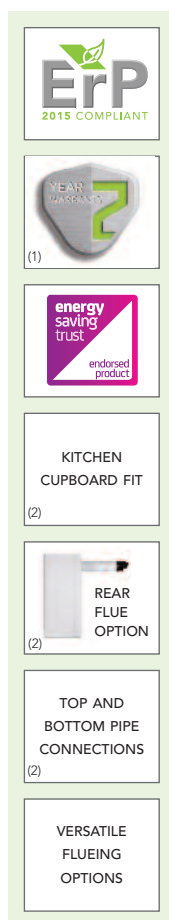
ErP 2015 COMPLIANT

YEAR WARRANTY (1)

energy saving trust endorsed product

KITCHEN CUPBOARD FIT (2)

REAR FLUE OPTION (2)

TOP AND BOTTOM PIPE CONNECTIONS (2)

VERSATILE FLUEING OPTIONS

Fully compliant with the Energy-related Products Directive.

2 year parts and labour warranty.(1)

Aluminium heat exchanger provides excellent thermal transfer and anti-corrosion properties and is fully recyclable.

Low pressure loss reduces noise and increases pump performance.

Simple commissioning; only minimal adjustments are required after installation and automatic modulation eliminates the need to range rate the boiler.

Top and bottom pipe connections on Mynute 15VHE for flexibility and ease of installation.

Low NOx - Class 5 performance.

Only requires one metre minimum static head.

Anti-cycling control reduces on/off cycling, increasing efficiency of the boiler and reducing fuel costs.

Built-in frost protection, which protects the appliance from damage during periods of cold weather. External pump must be connected directly to the boiler to ensure this function operates.

Versatile, horizontal, vertical or rear flueing(2) options enable the boiler to be sited almost anywhere in the home. Flue type certification also permits Mynute VHE to be used with Vokèra's 80mm PP flexible flue liner and B23 applications.

Anti seize function protects the pump from sticking during long periods of inactivity.

Standard Autostop disabling function(3) that automatically changes the current operating mode, and moves it permanently into the standby mode. Autostop will only operate after a pre-defined period of time has elapsed and if it has been activated during commissioning.

Intuitive control panel ensures end-users can easily operate and adjust the appliance.

Purge cycle feature. The boiler will automatically run a two minute purge cycle when the boiler is switched on for the first time before the burner ignites to expel any air that may be present in the system.

Compatible with Vokèra's MCS accredited Zenith solar thermal collectors and unvented single twin coil cylinders.

REAR FLUE AND TOP AND BOTTOM PIPE CONNECTIONS (2)

OPTIONS	
Description	Code
Rear flue terminal (15kW only)	533
White pipe cover 400mm (20kW only)	518
Spacing frame (20kW only)	2359689
Condensate pump	404
Magnetic filter	29450199

(1) Subject to registration and annual service. (2) 15kW outputs only. (3) Autostop activation device required. Contact Vokèra Technical for advice

Condensate level sensor

Easy maintenance condensate syphon

Electric insulation IPX5D

Frost protection via PCB

Flue gas analysis test point

Aluminium radial heat exchanger

Premix burner
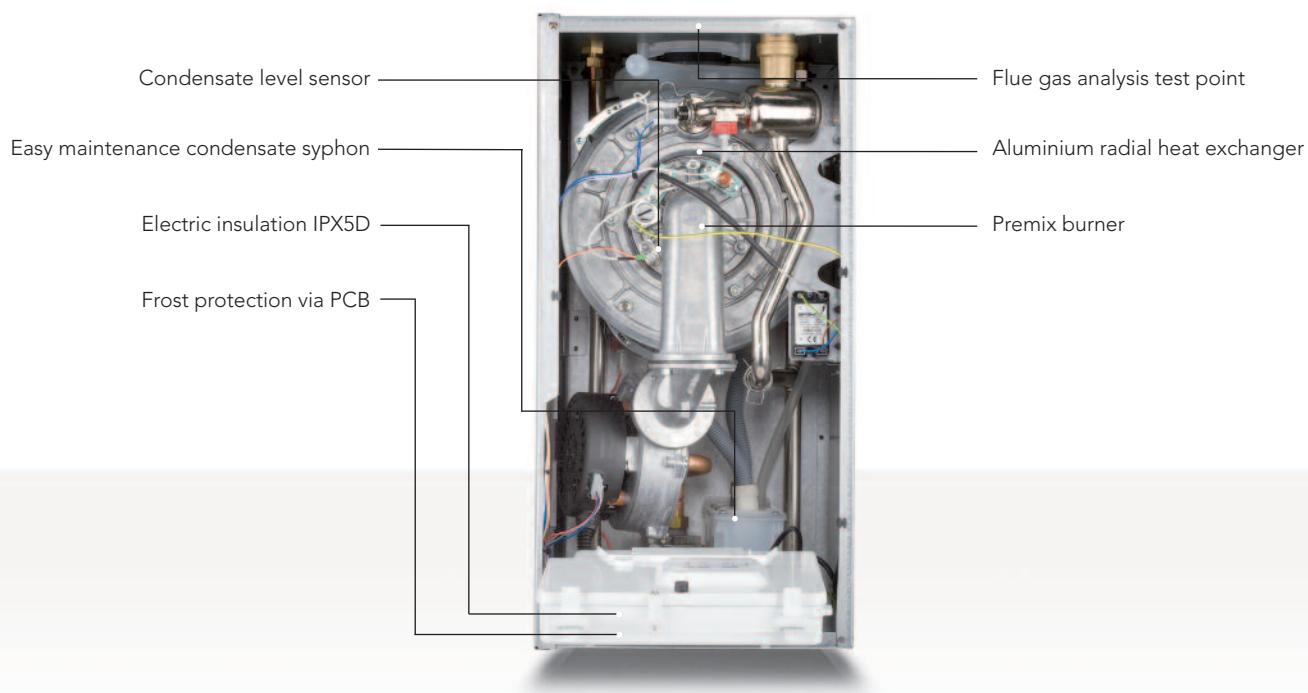
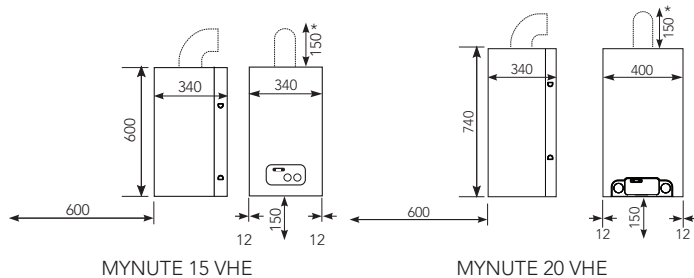| SPECIFICATIONS	Mynute 15VHE	Mynute 20VHE
Product order code	884	886
Central Heating		
Heat input (kW)	15	20
Maximum heat output @ 60/80°C (kW)	14.6	19.7
Maximum heat output @ 30/50°C (kW)	15.74	21.16
Min static head	1m	1m
Max static head	30m	30m
Min flow rate at max output	500 l/h	500l/h
Weight		
Dry weight (kg)	25	29
Connections		
Flow & return	22mm	22mm
Gas	15mm	15mm
Condense	21mm	21mm
Electrical		
Voltage (V/Hz)	230/50	230/50
Flue Details (concentric)		
Maximum horizontal flue length (60/100mm)	7.8m	7.8m
Maximum vertical flue length (60/100mm)	8.8m	8.8m
Maximum horizontal flue length (80/125mm)	25m	20m
Maximum vertical flue length (80/125mm)	30m	25m
Flue Details (twin pipes)		
Maximum horizontal flue length (80mm/80mm)	40m/40m	40m/40m
Maximum vertical flue length (80mm/80mm)	40m/40m	40m/40m
Efficiency		
ErP seasonal space heating energy efficiency (class/%)	A/93	A/91
SAP 2009 efficiency (%)	89.3	88.8
NOx Class	5	5

DIMENSIONS AND CLEARANCES (MM)

MYNUTE 15 VHE

600

340

340

150*

600

12   150   12

MYNUTE 20 VHE

740

340

400

150*

600

12   150   12

*From casing or 25mm above flue elbow (whichever is applicable)

CONTROL PANEL

Vokèra

No pipe cover available for 15kW outputs.
Pipe cover for 20kW output available as optional extra.

Need to upgrade your cylinder as well as your boiler?
You can install this boiler with a Vokèra AquaFlow unvented
single coil cylinder - See next page for details

General Enquiries: 0844 391 0999   enquiries@vokera.co.uk   www.vokera.co.uk

AquaFlow
Unvented single coil cylinder

For use with Vokèra Mynute VHE open vent boiler, Vision S and Mynute i system boiler.

Inner tank guaranteed for 25 years, made from stainless steel.

2 year warranty on ancillary components.[1]

High performance mains pressure to all hot water outlets.

Up to 50 litre per minute flow rate.

WRAS Approved.

No need for 'sacrificial anode' due to excellent anti-corrosion properties.

Compact dimensions.

TPRV, EV, Tundish, 2-port motorised valve supplied as standard.

3kW immersion heater and energy cut-out device supplied as standard.

Optional secondary return connection if required.

Thermal insulation and energy efficient coil meet Part L Requirements.

[1] Subject to registration and annual service.
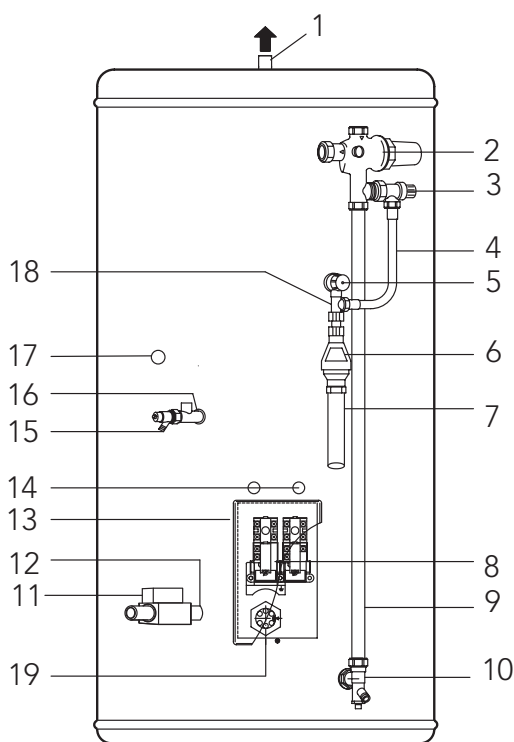
1. Hot water outlet
2. Pressure reducing valve
3. Expansion/check valve
4. Flexible connection
5. TPR valve
6. Tundish
7. Discharge pipe
8. Cylinder thermostat
9. Cold feed tube
10. Drain cock
11. Motorised valve
12. Flow connection
13. Junction box
14. Cable Entry
15. Commissioning drain valve
16. Secondary return
17. Return connection
18. Tee Piece
19. Immersion Element

SPECIFICATIONS	AquaFlow 150	AquaFlow 200	AquaFlow 250
Product order code	863	864	865
Capacity	150 litres	200 litres	250 litres
Height	900mm	1150mm	1400mm
Depth (diameter)	580mm	580mm	580mm
Weight (when full)	190kg	240kg	300kg
Coil rating	12kW	26.5kW	26.5kW
Average recovery time	30 min	26 min	28 min
Energy loss (kW/day)	1.78	2.04	2.45
Maximum working pressure	8-bar	8-bar	8-bar
ErP water heating efficiency (XL Profile) class	B	C	C

AquaNova

Instantaneous multipoint water heater

ErP 2015 COMPLIANT

YEAR WARRANTY (1)

INSTANTANEOUS HOT WATER

HIGH FLOW RATE

SIMPLE INSTALLATION AND COMMISSIONING
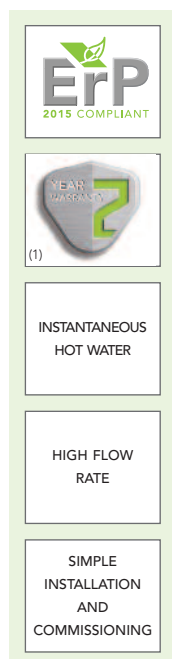
Suitable for domestic and small light commercial applications.

2 year warranty on ancillary components.[1]

Provides instant hot water to multiple outlets, such as to a kitchen and bathroom.

Ideal for replacement installations for properties that require hot water supply only due to existing electric, convector or gas wall heating appliances.

AquaNova has a 28kW heat output and high flow rate of 11.8 litres per minute.

Simple installation and commissioning. All connections are easily accessible and the appliance features a built-in fly lead.

Continuous gas modulation and electronic temperature sensing gives accurate temperature control.

AquaNova can be flued horizontally or vertically using Vokèra's concentric Uni flue or twin flue systems.

Simple to service. No diaphragm or water section. This reduces maintenance requirements.

Electronic ignition eliminates the need for a constantly running fan or energy wasteful pilot light.

[1]Subject to registration and annual service.

DIMENSIONS AND CLEARANCES (MM) - AQUANOVA
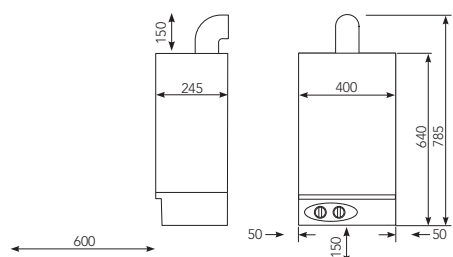
*From casing or 25mm above flue elbow (whichever is applicable)

SPECIFICATIONS	AquaNova
Product order code	965
Performance	
Heat input	32
Rated output to DHW (kW)	28.8
Flow rate	
Hot water flow rate - 35°C rise (l/min)	11.8
Weight	
Dry weight (kg)	20
Connections	
Cold water inlet	15mm
Hot water outlet	15mm
Gas	15mm
Electrical	
Voltage (V/Hz)	230/50
Power consumption (W)	85
Maximum flue length (concentric)	
Maximum horizontal flue length 60/100mm	2.4m
Maximum vertical flue length 60/100mm	3.6m
Maximum flue length (twin)	
Maximum horizontal flue length 80/80mm	5m/5m
Maximum vertical flue length 80/80mm	5m/5m
Efficiency	
ErP water heating efficiency (XL profile) (class/%)	A/80.1
NOx class	3

Domestic Boiler Feature Reference Chart

Use this product feature reference chart to quickly identify what Vokèra product provides the ideal solution for your heating and domestic hot water requirements.

PRODUCT FEATURES

Feature	Linea One	Unica i	Vision Combi	Compact A	Verve	Mynute i	Vision System	Mynute VHE
5 year warranty	✓	✓	✓	✗	✗	✓	✓	✗
Back lit LCD display	✓	✓	✓	✓	✓	✓	✓	✗
History recall information function	✓	✓	✓	✗	✓	✗	✗	✗
DHW preheat ON/OFF function	✓	✓	✓	✓	✗	✗	✗	✗
External second pump connection	✓	✗	✗	✗	✗	✗	✗	✗
DHW memory function option	✓	✗	✗	✗	✗	✗	✗	✗
DHW comfort function option	✓	✗	✗	✗	✗	✗	✗	✗
Modulating pump	✓	✓	✗	✗	✗	✓	✗	✗
Advanced Autostop function - 4 modes operation ✓	✗	✗	✗	✗	✗	✗	✗	
Autostop function - 1 mode operation	✗	✓	✓	✓	✗	✓	✓	✓
OpenTherm control option	✓	✓ [1]	✓ [2]	✓ [2]	✓ [2]	✓ [2]	✓ [2]	✗
Cyclonic air and particle separator	✓	✓	✓	✓	✓	✓	✓	✓
Built in filling loop	✓	✓	✓	✗	✗	✗	✗	✗
Pre-heated hot water	✓	✓	✓	✓	✗	✗	✗	✗
Pre-fixing jig	✓	✓	✗	✗	✗	✗	✗	✗
Full hot water flame modulation +/- 1°C max fluctuation	✓	✓	✓	✓	✗	✗	✗	✗
Automatic by-pass	✓	✓	✓	✓	✗	✓	✓	✗
Digital diagnostic code display	✓	✓	✓	✓	✓	✓	✓	✓
High efficiency air/gas modulation system	✓	✓	✓	✓	✓	✓	✓	✓
Weather compensation control option	✓ [3]	✓	✓ [2]	✓ [2]	✓ [2]	✓ [2]	✓ [2]	✗
Compartment ventilation not required	✓	✓	✓	✓	✓	✓	✓	✓
Built in frost protection	✓	✓	✓	✓	✓	✓	✓	✓
LPG model / conversion kit available	✓	✓	✓	✓	✓	✓	✓	✓
Anti seize function	✓	✓	✓	✓	✓	✓	✓	✓
'Anti cycle' heating control	✓	✓	✓	✓	✓	✓	✓	✓
Electrical insulation to IPX5D	✓	✓	✓	✓	✓	✓	✓	✓
Fault diagnostic display	✓	✓	✓	✓	✓	✓	✓	✓
Telescopic flue system	✓	✓	✓	✓	✓	✓	✓	✓
Twin flue system	✓	✓	✓	✓	✓	✓	✓	✓
Vertical flue option	✓	✓	✓	✓	✓	✓	✓	✓
Rear flue option	✗	✓	✓	✓	✗	✓	✓	✓ [4]
Combustion analysis function	✓	✓	✓	✓	✓	✓	✓	✓
Electronic burner ignition	✓	✓	✓	✓	✓	✓	✓	✓
Pipe space through back of boiler	OPT	OPT	OPT	OPT	✗	OPT	OPT	N/A
Domestic heat exchanger: 5 year guarantee against scaling	✓	✓	✓	✓	✓	N/A	N/A	N/A

[1] Plug & Play connection on OpenTherm and Unica i
[2] Contact Vokèra Technical for advice
[3] Weather compensation control supplied as standard
[4] Mynute 15VHE only

Flue Options

Vokèra offers a wide range of flue systems that are able to meet the majority of applications. There are concentric flue systems and a parallel (twin) flue system that can be used in either horizontal or vertical configurations.

All Vokèra flue systems incorporate simple to use, push-fit connections that are designed to enable a fast and simple method of installation. The attractive white finish complements the modern design of our appliances.

60/100mm CONCENTRIC
Our 60/100 condensing range (for HE appliances) are the most widely used and will suit most applications that are usually encountered.

80/125mm CONCENTRIC
The 80/125 range is suitable for use on specific appliances and suits applications where a slightly longer concentric flue system is required.

80mm + 80mm PARALLEL (twin)
The 80mm + 80mm parallel (twin) range can be utilised where an extremely long flue run is envisaged, or required.

Uni-flue 60/100mm CONCENTRIC
The Uni-flue range is suitable for use on the Aquanova water heater and standard efficiency appliances that are only to be used on applications where a condensing boiler is not suitable.

TERMINAL POSITIONS
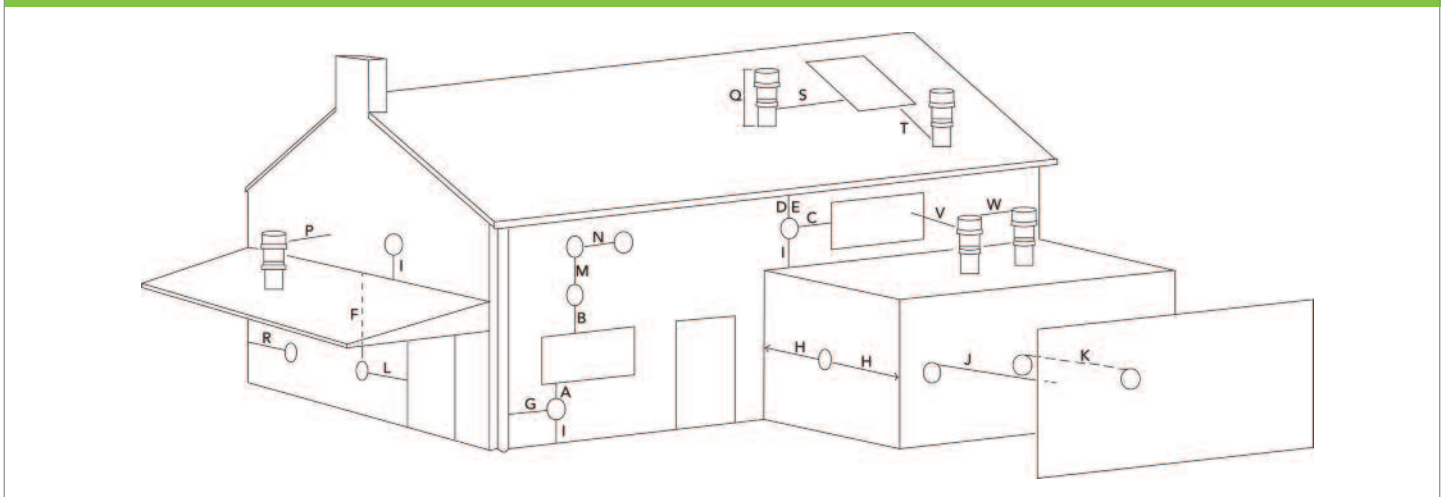
FLUE EXIT CLEARANCES

	Flue Exits	Minimum distance
A	Below an opening*	300mm
B	Above an opening*	300mm
C	To the side of an opening*	300mm
D	Below gutters, drain pipe etc	25mm
E	Below eaves	25mm
F	Below balcony, carport roof etc	25mm
G	To side of a vertical soil/drain pipe etc	25mm (60mm for 80/125 flue)
H	From internal or external corner or boundary	25mm (60mm for 80/125 flue)
I	Above ground, roof or balcony level	300mm
J	From a surface or boundary facing a terminal	600mm**
K	From a terminal facing a terminal	1200mm
L	From an opening in the carport into the building	1200mm
M	Vertically from a terminal on the same wall	1500mm
N	Horizontally from a terminal on the same wall	300mm
P	From a structure to the side of a vertical terminal	300mm
Q	From the top of a vertical terminal to the roof flashing	As determined by fixed collar of vertical terminal
R	To the side of a boundary	300mm
S	To the side of an opening / window on a pitched roof	600mm
T	Below an opening / window on a pitched roof	2000mm
V	From a vertical terminal to an adjacent opening*	Call Vokèra Technical for advice
W	From a vertical terminal to an adjacent vertical terminal	300mm (only if both terminals are same height)

Flue systems and terminal locations should be located and installed in accordance with current Building Regulations (UK) or I.S. 813 (ROI).

The terminal should be located where the dispersal of combustion products is not impeded and with due regard for the damage and/or discolouration that may occur to building products located nearby.

The terminal must not be located in a place where it is likely to cause a nuisance. Water vapour may condense on leaving the terminal. The effect of such plumeing must be considered.

* Term 'opening' includes window, air brick etc
** Minimum clearance ensures the boiler works safely, however consideration should be made for nuisance factor.

Flue Options

HORIZONTAL & VERTICAL CONCENTRIC SYSTEMS	HORIZONTAL & VERTICAL PARALLEL (TWIN) SYSTEMS
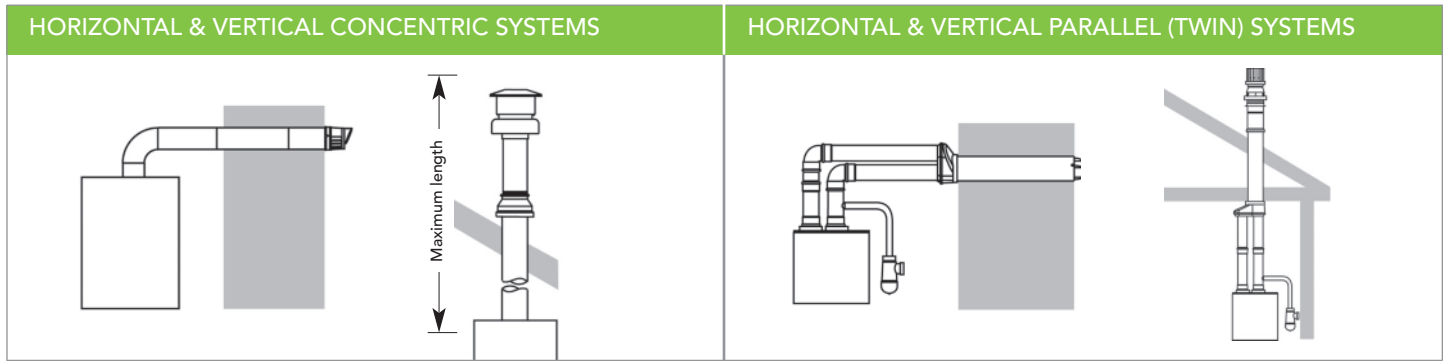
ALSO AVAILABLE - 80MM FLEXIBLE PP FLUE SYSTEM

The 80mm Flexible PP Flue System range consists of Polypropylene components and a flexible Polypropylene liner. A full range of flue components and accessories to facilitate different flue requirements are available.

The flexible PP flue system is suitable for multiple applications and is for use with high efficiency appliances, including Linea One, Unica i, Vision combi and system boilers, Mynute i, Mynute VHE and Compact A.

The range includes several different connectors that enable flexible PP to be connected to rigid PP / flexible PP to flexible PP when off-cuts may be required to be joined together.

For further information and advice please contact the Vokèra Technical Helpline on 0844 391 0999 (option 4).

MAXIMUM FLUE LENGTHS

	Concentric 60/100mm (4")		Concentric 80/125mm (5")		Parallel (twin) 80mm + 80mm	Flexible PP Flue	Concentric Uni-flue 60/100mm (4")	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal	Vertical
Linea One	3.85m	4.85m	10.0m	12.0m	30m + 30m	12m + 12m	N/A	N/A
Unica i28	7.8m*	8.8m*	20m	25m	45m + 45m	16m + 16m	N/A	N/A
Unica i32	7.8m*	8.8m*	20m	25m	45m + 45m	14m + 14m	N/A	N/A
Unica i36	7.8m*	8.8m*	14.85m	19.85m	45m + 45m	14m + 14m	N/A	N/A
Vision 25C	5.85m*	6.85m*	15.3m	20.3m	45m + 45m	8m + 8m	N/A	N/A
Vision 30C	4.85m*	5.85m*	12.8m	17.8m	40m + 40m	8m + 8m	N/A	N/A
Compact 25A	5.85m*	6.85m*	15.3m	20.3m	45m + 45m	8m + 8m	N/A	N/A
Compact 29A	4.85m*	5.85m*	12.8m	17.8m	40m + 40m	8m + 8m	N/A	N/A
Verve 47kW	1.8m	2.8m	4.8m	7.0m	20m + 20m	8m + 8m	N/A	N/A
Mynute i20	7.8m	8.8m	20m	21m	40m + 40m	16m + 16m	N/A	N/A
Mynute i30	7.85m	8.85m	14.85m	15.85m	40m + 40m	16m + 16m	N/A	N/A
Mynute 35HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m	N/A	N/A
Vision 20S	5.85m	6.85m	15.3m	16.3m	45m + 45m	8m + 8m	N/A	N/A
Vision 25S	4.85m	5.85m	12.8m	13.8m	40m + 40m	8m + 8m	N/A	N/A
Mynute 15VHE	7.8m	8.8m	25m	30m	40m + 40m	16m + 16m	N/A	N/A
Mynute 20VHE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m	N/A	N/A
Aquanova	N/A	N/A	N/A	N/A	7m + 7m	N/A	2.4m	3.8m
Reductions for additional bend/s (reduction for PMK = 4.0 metres)								
45-deg	1m	1m	1m	1m	1m	N/A	1m	1m
90-deg	1m	1m	1m	1m	1m	N/A	1.5m	1.5m

*Deduct 3.85m from the maximum flue length when installed with Fuelsaver.

80MM PARALLEL (TWIN) FLUE SYSTEMS

Code	
310	Adaptor kit for SE range and Aquanova
430	Adaptor kit for all condensing boilers
0225805	Horizontal terminal & convertor box
0225810	Vertical terminal & convertor box
0225820	250mm extension (pair)
0225825	500mm extension (pair)
0225830	1000mm extension (pair)
0225835	2000mm extension (pair)
0225840	45-deg bend (pair)
0225845	90-deg bend (pair)
0225850	Double pipe bracket 80mm X 80mm (5-OFF)
0225855	Single pipe bracket 80mm (5-OFF)
0225765	Flat roof flashing plate (390mm Dia)
29450178*	Condense trap kit for SE range and Aquanova
29450176	Vertical collector for SE range and Aquanova
29450177	Horizontal collector for SE range and Aquanova

*When ordering this product you will need to also order either the 29450176 or 29450177, depending on your installation requirements.

The 80mm + 80mm parallel (twin) system enables greater flue lengths to be achieved and can be used in either a horizontal or vertical configuration. However the parallel system must be converted back to a concentric system at the point of termination. Dedicated flue kits are available for this purpose.
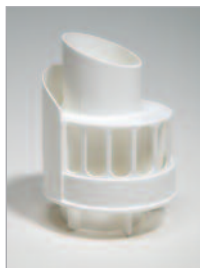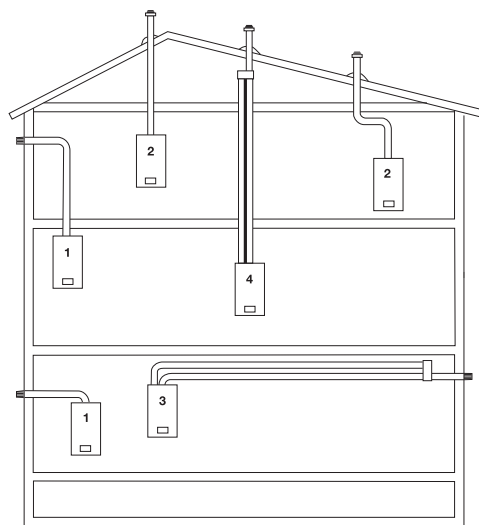
An adaptor kit is required to convert the appliance flue outlet from a concentric configuration into a parallel configuration.

When used in the horizontal plane, the flue system should be installed so that it has a 1° – minimum – fall back to the boiler. This will enable any condensate fluid that may form, to drain via the condensate connection/trap.

The exhaust pipe can reach very high temperatures and so must be adequately protected to avoid contact with persons and/or materials that could be damaged as a result.

The air inlet pipe should be insulated to reduce the possibility of condense forming on the outside of the pipe.

Vokèra can advise that the Gas Safe Technical Bulletin, TB 008 ed2.1, gives specific advice on the requirements for new installations with a flue routed within a void, where appropriate means for the gas engineer to visually check the flue must be incorporated (this is normally achieved by inspection hatches located in the ceiling).

The flue system installation options as detailed below are not generic for all concentric flues. Please see the boiler and flue compatibility tables for information on a specific appliances suitability with the different concentric flue systems.

FLUE SYSTEM OPTIONS

Configuration	Description	Compatible with
1	Horizontal Concentric	All appliances
2	Vertical Concentric	All appliances
3	Horizontal parallel system	All appliances
4	Vertical parallel system	All appliances

N.B. A boiler top adaptor/kit is required when using the 80/125mm concentric and 80mm parallel systems.

White nose cone
60/100mm concentric flue system
Code: 29450130

Telescopic horizontal flue terminal
60/100mm concentric flue system
Code: 29450121

Plume management kit
60/100mm concentric flue system
Code: 522

Boiler and Flue Compatibility
Concentric flue ranges

The 60/100 condensing range is suitable for all current Vokèra high efficiency (condensing) appliances. A flue kit adaptor is required to use the 60/100 concentric flue on the Verve 47kW domestic heat only boiler.

When used in the horizontal plane, the flue system (excluding horizontal terminal) should be installed so that it has a 1° - 3° fall back to the boiler (17mm - 51mm per-metre). This will enable any condensate fluid that may form, to drain via the condensate connection/trap. It can also be used as a replacement flue system on older/obsolete Vokèra HE appliances, however you should contact the Vokèra Technical Helpline for specific advice.

60/100MM CONCENTRIC FLUE SYSTEMS								
Code	Description	Linea One	Unica i	Vision range[1]	Compact A	Verve	Mynute i	Mynute VHE
29450121	Telescopic horizontal flue terminal	✓	✓	✓	✓	✓	✓	✓
29450120	Horizontal flue terminal	✓	✓	✓	✓	✓	✓	✓
522	Plume management kit	✗[2]	✓	✓	✗[2]	✗	✓	✓
29450131	Plume management kit extension	✗[2]	✓	✓	✗[2]	✗	✓	✓
29450123	90-deg bend	✓	✓	✓	✓	✓	✓	✓
29450124	45-deg bend (pair)	✓	✓	✓	✓	✓	✓	✓
29450125	500mm extension	✓	✓	✓	✓	✓	✓	✓
29450126	1000mm extension	✓	✓	✓	✓	✓	✓	✓
29450127	2000mm extension	✓	✓	✓	✓	✗	✓	✓
29450128	Telescopic extension	✓	✓	✓	✓	✓	✓	✓
529	Wall brackets (5 x 100mm)	✓	✓	✓	✓	✓	✓	✓
29450122	Vertical flue terminal	✓	✓	✓	✓	✓	✓	✓
531	Pitched roof flashing plate	✓	✓	✓	✓	✓	✓	✓
532	Flat roof flashing plate	✓	✓	✓	✓	✓	✓	✓
533	Telescopic rear flue	✗	✗	✗	✗	✗	✓	✓[3]
29450133	Telescopic rear flue	✗	✓	✓	✓	✗	✓	✓[3]
534[4]	Brick red nose cone	✓	✓	✓	✓	✓	✓	✓
535[4]	Beige nose cone	✓	✓	✓	✓	✓	✓	✓
29450130	White nose cone	✓	✓	✓	✓	✓	✓	✓
487	45-deg-plume diverter	✓	✓	✓	✓	✓	✓	✓
20028027	Flue kit adaptor for Verve	✗	✗	✗	✗	✓	✗	✗

[1] Includes both Vision combi and system boilers   [2] Contact Vokèra Technical for advice   [3] 15kW output only   [4] Available as special order only. Minimum order quantities apply

The 80/125 range can be only utilised with certain appliances. A flue kit adaptor is required to use the 80/125 concentric flue on the Verve 47kW domestic heat only boiler. An adaptor is also required for other appliances to convert the flue outlet from 100mm to 125mm.

When used in the horizontal plane, the flue system (excluding horizontal terminal) should be installed so that it has a 1° - 3° fall back to the boiler (17mm - 51mm per-metre). This will enable any condensate fluid that may form, to drain via the condensate connection/trap.

80/125MM CONCENTRIC FLUE SYSTEMS								
Code	Description	Linea One	Unica i	Vision range[1]	Compact A	Verve	Mynute i	Mynute VHE
413	Horizontal terminal	✓	✓	✓	✓	✓	✓	✓
414	Vertical terminal	✓	✓	✓	✓	✓	✓	✓
415	90-deg bend	✓	✓	✓	✓	✓	✓	✓
416	45-deg bend (single)	✓	✓	✓	✓	✓	✓	✓
417[2]	250mm extension	✓	✓	✓	✓	✓	✓	✓
418	500mm extension	✓	✓	✓	✓	✓	✓	✓
419	1000mm extension	✓	✓	✓	✓	✓	✓	✓
420	2000mm extension	✓	✓	✓	✓	✓	✓	✓
422[2]	Telescopic extension	✓	✓	✓	✓	✓	✓	✓
423	Wall brackets (5 x 125mm)	✓	✓	✓	✓	✓	✓	✓
424	Boiler top adaptor for HE appliances	✓	✓	✓	✓	✗	✓	✓
425[2]	Fixed offset	✓	✓	✓	✓	✓	✓	✓
426	Silicon lubricant	✓	✓	✓	✓	✓	✓	✓
532	Flat roof flashing plate	✓	✓	✓	✓	✓	✓	✓
531	Pitched roof flashing plate	✓	✓	✓	✓	✓	✓	✓
20028029	Flue kit adaptor for Verve	✗	✗	✗	✗	✓	✗	✗

[1] Includes both Vision combi and system boilers   [2] Available by special order

Choosing the Right Control
Intelligent controls

Maximise energy and fuel savings

With the introduction of condensing technology, boilers have continued to increase in efficiency with most current appliances able to reach over 90% efficiency. However, the technology within boilers is now so advanced that, even with future developments, there is little chance of boiler efficiency percentages increasing much further.

The one area that can still help maximise the efficiency and overall performance of the boiler is the correct use of a control. Even with average efficiencies now reaching over 90%, this can be increased by a further 2% - with the simple addition of a weather compensation control for example.

Choosing the right control

There are a number of different controls available so establishing the most suitable one for your heating requirements may be confusing. Vokèra provide a range of controls that can be used be with combi and system boilers, including; room thermostats, programmable room thermostats and the Vokèra 'Intelligent Control' range that incorporates the most advanced technology available, such as weather compensation and OpenTherm.

The Vokèra Vision combi boilers come with a built-in 7 day digital clock which enables different settings for each day of the week. Additional controls can be added to a Vision combi if it needs to be sited in a difficult to access location or for energy saving purposes.

Intelligent controls

Outside weather compensation sensor
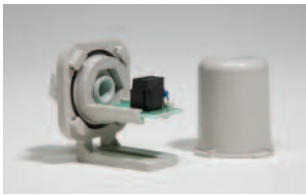
The Vokèra outside weather compensation sensor manages the central heating flow outlet temperature by regulating the boiler in line with external weather conditions, providing a consistent and comfortable room temperature. For example, when the central heating is timed to come on, the external sensor measures the outside temperature and the boiler calculates the required flow temperature needed to maintain the set room temperature.

Code: 2359259 - This control is supplied as standard with the Linea One combi boiler.

711 OpenTherm RF programmable room thermostat
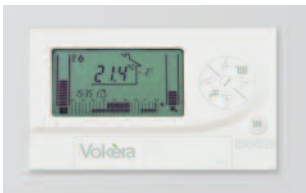
Vokèra's OpenTherm programmable room thermostat incorporates the most advanced technology; the basic principle of OpenTherm is that it takes over the management of the flow outlet temperature and raises or lowers the flow temperature of the boiler in order to maintain a certain room temperature that has been requested or set by the end user.

When you connect the OpenTherm to a boiler, the boiler's own internal management of the set point becomes redundant and the OpenTherm control takes over. By allowing the OpenTherm to manage the set-point the efficiency of the appliance is increased as the control constantly endeavours to maintain a low outlet temperature, this means an even lower return temperature and condensing boilers are at their peak efficiency when operating with a low return temperature.

A saving of around 15% can be achieved when using the OpenTherm programmable room thermostat when compared to a typical on/off room thermostat, this equates to a £67 saving on an annual fuel bill (energy saving based on average 18,000kwh per annum). Not only is the OpenTherm designed to reduce fuel costs it is also designed to improve end user comfort, it achieves this by significantly reducing or eliminating temperature 'undershoot' or 'overshoot', meaning that a stable room temperature is achieved and maintained.

You can install the OpenTherm alongside the weather compensation control to benefit from even further energy savings. Weather compensation technology 'fine tunes' the heating system to the outside temperature condition, where the flow temperature increases/decreases in response to external weather conditions. Effectively it takes into consideration the external temperature and works with the OpenTherm control to tell the boiler what it needs to do to compensate for the outside weather conditions, so if it is a warm day, it tells the boiler it will not need to work as hard to achieve the room set point.

Configured for use with the Unica i combi boiler with the receiver being easily connected to the boiler using the Plug & Play Tyco socket. The Tyco connection can be re-configured or removed to facilitate use with other compatible Vokèra high efficiency combi boilers.

OpenTherm RF programmable room thermostat - colour white. Code: 20050690   (Black version also available. Code: 20050691)

Gas Safe Registered Installers: For a step by step installation video visit the Vokèra YouTube channel, **search Vokera Ltd.**

Choosing the Right Control
Energy saving controls

Energy Saving Controls

Room thermostats control the ambient room heating temperature. Programmable room thermostats can have different set temperatures for different periods of the day, offering greater flexibility and a simple solution to boiler control. For maximum comfort it is recommended that your thermostat is set between 18 - 21°C.

7 day RF programmable room thermostat

This on/off programmable room thermostat allows easy control over boiler heating timings and temperatures over a 7 day period. A typical heating programme is pre programmed so the time and day of the week only need to be set before the programmer is fully operational.

Configured for use with the Compact A combi boiler with the receiver being easily connected to the boiler using the Plug & Play Tyco socket. The Tyco connection can be re-configured or removed to facilitate use with other compatible Vokèra high efficiency combi boilers.
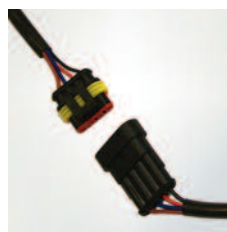
Wireless version product code: 20059643

Hard-wired version also available, product code: 20063874

Tyco connection from receiver to boiler

RF room thermostat control

This on/off room thermostat has similar characteristics to the above as it can be used to adjust the set room temperature. It is ideal for the Vision combi boilers as it allows easy control over the heating temperatures but it will not interfere with any programmed heating timings that have been set on the built in digital clock.

Wireless version product code: 20059642

Hard-wired version also available, product code: 20063869

CONTROLS COMPATIBILITY									
Code	Control	Linea One	Unica i	Vision Combi	Compact A	Verve 47kW	Mynute i	Vision System	Mynute VHE
20050690	711 OpenTherm RF programmable room thermostat	✓[1]	✓	✓[3]	✓[3]	✓[2]	✓[2]	✓[2]	✗
2359259	Outside weather compensation sensor	✓[5]	✓	✓[3]	✓[3]	✓[2]	✓[2]	✓[2]	✗
20059643	7 Day RF Programmable room thermostat	✓	✓[6]	✓	✓	✓[2]	✓[2]	✓[2]	✓[2]
20063874	7 Day HW Programmable room thermostat	✓	✓	✓	✓	✓[2]	✓[2]	✓[2]	✓[2]
20059642	RF room thermostat control	✓	✓	✓	✓	✓	✓	✓	✓
20063869	Hard-wired room thermostat control	✓	✓	✓	✓	✓	✓	✓	✓
20025085	Compact A 24 hour analogue clock kit[7]	✗	✗	✗	✓	✗	✗	✗	✗

[1] Requires wiring kit - code 1221179 - contact Vokèra Technical for advice.

[2] Can be used on heating only applications - contact Vokèra Technical for advice.

[3] Requires control interface - code 29450143 - contact Vokèra Technical for advice. The addition of an energy saving control will override any settings that have been programmed into the built in digital clock on the Vision Combi.

[4] Can be used on internal installations - contact Vokèra Technical for advice.

[5] Outside weather compensation control is supplied in the box with every Linea One.

[6] Wiring needs to be reconfigured - contact Vokèra Technical for advice.

[7] Compact A 24 hour analogue clock kit includes a pipe cover that the analogue clock is incorporated into.

Choosing the Right Control
Providing energy saving solutions for the future

ErP
2015 COMPLIANT

How can controls improve the ErP efficiency rating?

Differing types of controls are classified according to the 'uplift' in efficiency it brings to the package.

There are **eight** classes of control system, each adds an efficiency percentage to the boiler seasonal space heating ErP efficiency rating. That is how the package efficiency is calculated. Additional heaters such as a second boiler, heat pump or solar input will also adjust the package efficiency.

Class I: Room Thermostat: A room thermostat that controls the on/off operation of a heater. Performance parameters, including switching differential and room temperature control accuracy are determined by the thermostat's mechanical.

Class II: Weather compensator control, for use with modulating heaters: A heater flow temperature control that varies the set point of the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. Control is achieved by modulating the output of the heater.

Class III: Weather compensator control, for use with on/off output heaters: A heater flow temperature control that varies the set point of the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. Heater flow temperature is varied by controlling the on/off operation of the heater.

Class IV: TPI room thermostat, for use with on/off output heaters: An electronic room thermostat that controls both thermostat cycle rate and in-cycle on/off ratio of the heater proportional to room temperature. TPI control strategy reduces mean water temperature, improves room temperature control accuracy and enhances system efficiency.

Class V: Modulating room thermostat, for use with modulating heaters: An electronic room thermostat that varies the flow temperature of the water leaving the heater dependent upon measured room temperature deviation from room thermostat set point. Control is achieved by modulating the output of the heater.

Class VI: Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.

Class VII: Weather compensator and room sensor, for use with on/off output heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and adjusts the compensation curve parallel displacement to improve room comfort. Heater flow temperature is varied by controlling the on/off operation of the heater.

Class VIII: Multi-sensor room temperature control, for use with modulating heaters: An electronic control, equipped with 3 or more room sensors that varies the flow temperature of the water leaving the heater dependent upon the aggregated measured room temperature deviation from room sensor set points. Control is achieved by modulating the output of the heater.

Unica i32 plus Class VI controls (711 RF programmable thermostat plus weather compensation sensor) achieves an ErP A+ (98%) space heating package rating.

CONTROLS AND ERP CLASSIFICATIONS

Code	Description	Class I	Class II	Class III	Class IV	Class V	Class VI	Class VII	Class VIII
20059642	RF room thermostat control	✓	✗	✗	✗	✗	✗	✗	✗
20063869	Hard-wired room thermostat control	✓	✗	✗	✗	✗	✗	✗	✗
20101743	RF programmable room thermostat	✓	✗	✗	✗	✗	✗	✗	✗
20063874	7 day HW programmable room thermostat	✓	✗	✗	✗	✗	✗	✗	✗
20050690	OpenTherm RF programmable room thermostat (white)	✗	✗	✗	✗	✓	✗	✗	✗
20050691	OpenTherm RF programmable room thermostat (black)	✗	✗	✗	✗	✓	✗	✗	✗
29450145	RF outside weather compensation sensor (photovoltaic)	✗	✓	✗	✗	✗	✗	✗	✗
2359259	Outside weather compensation sensor	✗	✓	✗	✗	✗	✗	✗	✗
Kit Code	711 and outside weather compensation sensor kit	✗	✗	✗	✗	✗	✓	✗	✗
	Package / system efficiency label - uplift	1%	2%	1.5%	2%	3%	4%	3.5%	5%

Renewable Technology
Solar thermal

Solar thermal has become one of the most cost efficient renewable technologies currently available for reducing CO_2 emissions, harnessing the sun's natural energy to heat water.

Solar thermal collectors absorb the sun's energy, which is absorbed by the heat transfer fluid that circulates around the collector and pipework to a twin coil cylinder that heats the domestic hot water. The water is then stored ready for supply to the taps. When the system does not heat to the required temperature the boiler steps in to make up the difference.

By installing solar thermal you can expect to save on average around 350 - 400kg of CO_2 per year. Financial returns will depend on a number of factors including, among others, location of property, positioning of collectors on the roof, weather conditions and which fossil fuel you are replacing.
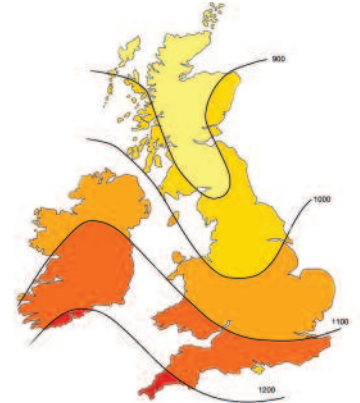
Fig 1 - Source: Solar Trade Association

Fig 1 shows the annual average solar radiation falling on one m^2 measured in kW hours. (UK and Ireland).

Zenith solar thermal systems

Our high grade MCS approved solar collectors maximise energy efficiency and meet the approved standard of BS EN12975 and have the Solar Keymark seal of approval.

Zenith 'Evacuated Tube' collectors - Vokèra Zenith evacuated tubes are made up of 14 double sleeve evacuated glass tubes. The vacuum inside the double sleeved glass tubes provides effective thermal insulation and permits the collectors to generate heat from the sun even in bad weather and during winter months. Zenith evacuated tubes can be more efficient than flat plate collectors in colder, less sunny parts of the UK and are suitable for retro fit and new build applications.

Zenith 'On Tile' collectors and 'Inset' collectors - Vokèra Zenith on tile flat plate collectors and inset flat plate collectors are of high build quality and are designed to use both direct sunlight and daylight to gain the maximum amount of energy throughout the whole year. Zenith on tile collectors are more suited to retro fit applications and inset collectors to new build applications or for those requiring a more discreet finish.

Design and Installation

The Vokèra renewable portfolio can be incorporated to form many different heating system layouts that fulfil all heating and domestic hot water requirements.

The below diagrams show how the Vokèra Zenith range can be teamed with Vokèra boilers to further reduce reliance on fossil fuels and maximise the benefits of renewable energy. For a solar efficiency and suitability report contact the Vokèra Pre Sales team.

Zenith solar system
Mynute i sealed system boiler
Aquaflow unvented twin coil cylinder

Zenith Solar system
Mynute VHE regular open vent boiler
Aquaflow unvented twin coil cylinder

Zenith Evacuated Tube
Product specifications

ErP 2015 COMPLIANT

7 YEAR WARRANTY

SOLAR KEYMARK SEAL OF APPROVAL

MANUFACTURED IN HOUSE

IDEAL FOR RETRO FIT AND NEW BUILD APPLICATIONS

PRE SALES SUPPORT AVAILABLE

MCS approved demonstrating the quality and reliability of the Zenith solar thermal collector range.

Evacuated tube technology provides better efficiency in cooler parts of the UK due to their ability to absorb and retain solar radiation, with the tubes working on the same principle as a vacuum flask.

High build quality designed to use both direct sunlight and daylight maximising energy performance even on cloudy days.

Ideal for retro fit and new build applications.

Evacuated tube collectors are easy to install as, if necessary, the tubes can be removed prior to the frame being fitted onto the roof. The tubes can then be positioned within the collector frame.

Zenith solar thermal packages include an intelligent controller for increased functionality and flexibility.

Evacuated tube collectors have greater application flexibility, this is due to the wide range of angles the collector can be positioned in, while maintaining effective absorption.

Easy replacement of glass tubes without having to empty the solar heating circuit.

As a guide 1m² of solar collector is required per person in a household. Up to six collectors can be connected in a series.

Zenith solar thermal collector systems are pressurised which provides greater flexibility for siting the collector and a faster reaction time to daylight and sunlight, maximising upon the sun's energy.

Integrated CPC mirrors maximise absorption even in oblique light.

A highly selective finish on the copper absorber plate within each tube guarantees exceptional absorption performance.

14 individual tubes in each collector.

Long working life, with no metal parts passing through the glass tubes to cause loss of vacuum.

Solar Keymark seal of approval.

Pre Sales service available to provide advice and assistance on suitability and free design service.

TECHNICAL SPECIFICATIONS	Evacuated Tube Collector
Total area	2.77 m²
Exposed area	2.40 m²
Effective absorption area	2.69 m²
Dimensions H x W x D (mm)	1730 x 1600 x 145
Empty weight	52 kg
Liquid content	2.05 litres
Recommended flow rate of panel (per m²/h)	30 litres
Absorption (α)	> 94%
Emissions (β)	< 7%
Maximum permitted pressure	10 bar
Maximum temperature	236 °C

EVACUATED TUBE COLLECTOR PACKAGE CODES

Description	Code
Evacuated tube pitched roof package	29450193
Evacuated tube flat roof package	29450194

EVACUATED TUBE COLLECTOR PACKAGE INCLUDES

Evacuated tube solar collectors (x2)	Air vent
Roof kit (pitched or flat roof)	Expansion vessel
Glycol	Premium controller
Pump station	

EVACUATED TUBE - DOMESTIC PROPERTY INSTALLATION

Zenith Flat Plate 'On Tile' and 'Inset'
Solar thermal collectors

10 YEAR WARRANTY

SOLAR KEYMARK SEAL OF APPROVAL

MANUFACTURED IN HOUSE

IDEAL FOR RETRO FIT AND NEW BUILD APPLICATIONS

ON TILE COLLECTORS - Ideal for retro fit applications with solar collectors sitting on top of the roof tiles, therefore requiring minimal adaptation to the roof.

INSET COLLECTORS - Ideal for new build applications with collectors sitting in the roof, therefore requiring less roof tiles and resulting in a neat and discreet finish.

MCS approved demonstrating the quality and reliability of the Zenith solar thermal collector range.

High build quality, designed to use both direct sunlight and daylight, and a highly selective finish on the copper absorber plate maximises energy performance even on cloudy days.

The collectors have an aluminium body, with a single piece copper absorber plate to create a greater reflective surface, maximising energy performance.

Flat plate collectors achieve optimum performance when positioned on a south facing roof at an angle of 35° and 45°. If this position is not possible, a split system could be used whereby one collector would be placed on the east facing side of the roof and another on the west.

The collectors are ultrasonically welded together to ensure high build quality and product longevity.

Heat transfer fluid flows through 12 individual copper pipes in the collector to create a large surface area for absorption.

As a guide, 1m² of solar collector is required per person in a household. Up to six collectors can be connected in a series.

Zenith solar thermal collector systems are pressurised which provides greater flexibility for siting of the collector and a faster reaction time to daylight and sunlight, maximising upon the sun's energy.

The bottom and walls of the collector tray are lined with 4cm of rock wool insulation to maximise heat retention and energy efficiency.

Low iron oxide content for high energy transmission and to minimise corrosion.

Each collector is protected with tempered glass to withstand extreme weather conditions, such as hail stones.

A well installed Zenith system will provide a reliable and extremely efficient service with a life expectancy of approximately 20+ years.

Pre Sales service available to provide advice and assistance on suitability and free design service.

SPECIFICATIONS	Flat Plate Collector
Total area	2.43 m²
Exposed area	2.20 m²
Effective absorption area	2.15 m²
Dimensions H x W x D (mm)	2046 x 1186 x 90
Empty weight	40 kg
Liquid content	1.6 litres
Recommended flow rate per m² (l/h)	30 litres
Absorption (α)	95%
Emissions (β)	5%
Maximum permitted pressure	10 bar
Maximum temperature	204 °C
Zero loss collector efficiency (η_0)	0.798
Collector heat loss efficiency $a1$ W/(m²K)	4.27

FLAT PLATE COLLECTOR PACKAGE CODES

| Description	Code
On tile pitched roof package	29450195
On tile flat roof package	29450196
Inset slate roof package	29450191
Inset tile roof package	29450192

FLAT PLATE COLLECTOR PACKAGE INCLUDES

Flat plate solar collectors (x2)	Air vent
Roof kit	Expansion vessel
Glycol	Premium controller
Pump station	

FLAT PLATE - DOMESTIC PROPERTY INSTALLATION

Domestic property with a Vokèra Zenith Inset installation

AquaFlow Twin
Unvented twin coil water cylinder
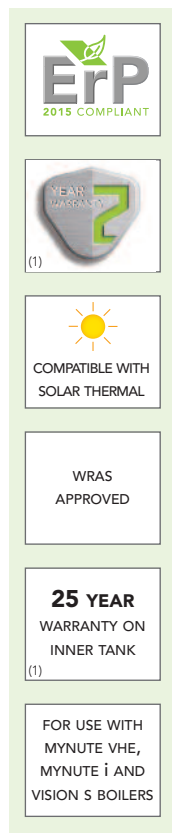
Install the Aquaflow Twin with a Zenith solar thermal system and a system or open vent boiler to benefit from solar thermal energy.

Inner tank guaranteed for 25 years, made from stainless steel.

Cylinder manufactured from high grade corrosion resistant stainless steel.

Easy and quick to install.

Balanced cold water supply point.

Secondary return facility on all units as standard.

No need for 'sacrificial anode' due to excellent anti-corrosion properties.

No cold water feed tanks required means a dry roof space.

Twin coil units supplied with one two port motorised valve.

Twin coil units are supplied with one low level immersion heater factory fitted and hard wired complete with surface mounted thermostat.

Twin coil cylinders have two thermostats, upper for boiler heating and lower for Solar pre-heater.

Cylinders are supplied with all mandatory valves and fittings.

(1) Subject to registration and annual service.
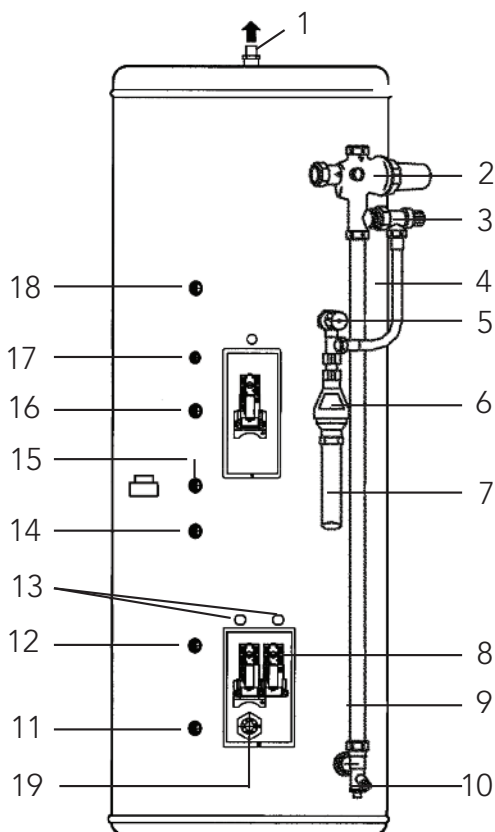
1. Hot water outlet
2. Pressure reducing valve
3. Expansion/check valve
4. Flexible connection
5. TPR valve
6. Tundish
7. Discharge pipe
8. Cylinder thermostat
9. Cold feed tube
10. Drain cock
11. Ret 3/4 inch
12. Sensor Boss 1/2 inch
13. Cable entry
14. Flow 3/4 inch
15. Flow 3/4 inch
16. Secondary return 1/2 inch
17. Ret 3/4 inch
18. Sensor Boss 1/2 inch
19. Immersion element

SPECIFICATIONS	AquaFlow Twin 250	AquaFlow Twin 300
Product order code	924	925
Capacity	250 litres	300 litres
Approximate weight fully flooded	312kg	364kg
Height	1400mm	1600mm
Diameter	580mm	580mm
ErP water heating efficiency (XL Profile) (class/%)	C	C

Renewable Technology
Air source heat pumps

Air source heat pumps utilise air to generate heat in order to heat water using compression technology, providing a great source of renewable energy.

Air source heat pumps work by extracting heat from the outside air, even when it's below 0°C. The extracted heat is then transferred to a plate-heat exchanger that heats the central heating and domestic water in a traditional way.

Air source heat pump technology is best suited to low temperature or under-floor heating systems as they require a lower flow temperature but some models are also able to achieve higher temperatures that are suitable for traditional central heating systems and domestic hot water (when connected to a water cylinder). Vokèra recommend that the AriaPRO is installed with an additional back up heat source, for example an immersion heater, to ensure all domestic heating and hot water requirements are satisfied.
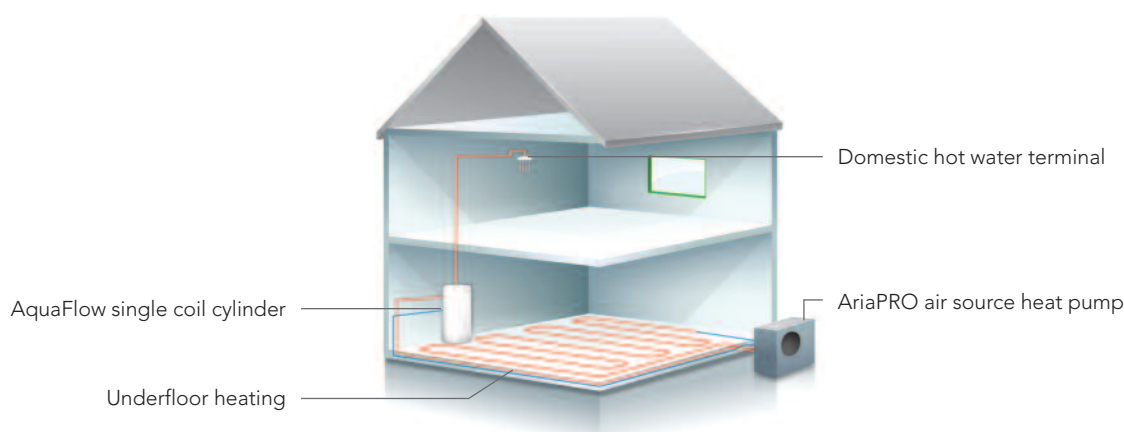
AriaPRO air source heat pumps
The Vokèra AriaPRO can reach a CoP (Co-efficient of Performance) of 4.2*, i.e. 1kW of electrical energy can provide 4.2kW of heat output or £1 of electricity can provide over £4 of heat. The appliance can be effective in temperatures ranging from -20°C to +30°C and so will continue to provide heat even in the cold winter months.

Sited outside a property without the requirement for extensive installation preparation the AriaPRO is an ideal renewable solution for both new build and retrofit applications.

*Dependent on ambient outside temperature

Design and Installation: AriaPRO air source heat pump system
The Vokèra renewable portfolio can be incorporated to form many different heating system layouts that fulfil all heating and domestic hot water requirements. The below diagram shows how the Vokèra AriaPRO air source heat pump can be teamed with Vokèra cylinders to further reduce reliance on fossil fuels and maximise the benefits of renewable energy.

Domestic hot water terminal

AquaFlow single coil cylinder

AriaPRO air source heat pump

Underfloor heating

A Vokèra boiler can be teamed with the AriaPRO air source heat pump to make up any differential in heat requirements, ensuring maximum end user comfort.

AriaPRO
Air source heat pump

MCS	HVCA AFFILIATE	YEAR WARRANTY	INTEGRATED MODULE FOR EASY INSTALLATION	IDEAL FOR UNDERFLOOR HEATING

MCS approved demonstrating the quality and reliability of the AriaPRO range.

Extracts heat from ambient air, even when outside temperature is below 0°C, which is then transferred to a heat exchanger that heats the central heating and domestic hot water in a traditional way.

Co-efficient of Performance (CoP) of up to 4.2 i.e. 1.0kW of electrical energy required to generate 4.2kW of heat output (£1 of electricity can provide over £4 of heat) at EN 14511 reference conditions.

Designed for a simple installation as the integrated hydronic module requires the addition of only a few external components.

Mono-block design means that the refrigerant circuit is located in the outdoor equipment only, enabling the AriaPRO to remain outside the scope of the F-Gas directive for installation; so no F-Gas certification is necessary to install the product.

Latest inverter technology with twin rotary compressor managed by both PAM and PWM logic control ensures both temperature and efficiency is optimised at all times leading to fuel efficiency, lower noise emissions and improved comfort.

Built-in frost protection, protects the appliance from damage during periods of cold weather.

Both central heating and domestic hot water can be provided when connected to a water cylinder.

The Vokèra heat pump system can incorporate Vokèra Zenith solar thermal to further minimise reliance on fossil fuels.

AriaPRO can be installed with most Vokèra boilers in a bivalent system to ensure maximum end user comfort during extreme weather conditions.

Sited outside a property without the requirement for extensive installation preparation.

Flexible application, suitable for both new build and retrofit applications.

Effective in outside air temperatures ranging from -20°C to +30°C.

Flow outlet temperature ranging up to +60°C, making the AriaPRO ideal for a number of domestic applications including underfloor heating, central heating and domestic hot water.

Electronically controlled variable speed helical fan ensures exceptionally low noise levels as low as 42 dBa (4 and 6kW outputs).

Supplied with built-in external sensor, a supplementary external sensor and remote control, to maximise efficiency.

Integral 2 litre expansion vessel supplied with the 4kW, 6kW, 8kW and 3 litre expansion vessel supplied with the 12kW and 15kW. Additional expansion capacity may be necessary dependant on the system.

If required, Vokera offer a low loss header[1] for systems that cannot guarantee sufficient flow through the heat pump at all times.

SPECIFICATIONS	AriaPRO 4kW	AriaPRO 6kW	AriaPRO 8kW	AriaPRO 12kW	AriaPRO 15kW
Product order code	20099423	20099424	20099425	20099426	20099427
Co-efficient of Performance (1)*					
Nominal capacity (kW)	4.1	5.8	7.2	11.9	14.5
Power input (kW)	1.01	1.37	1.84	3.04	3.57
CoP 0/35°C	4.06	4.24	3.95	3.94	4.06
Energy class	A	A	B	B	A
Co-efficient of Performance (2)* Typical UK and Ireland conditions					
Nominal capacity (kW)	3.9	5.8	7.4	12.95	14.5
Power input (kW)	1.21	1.93	2.34	4.3	4.36
CoP 0/45°C	3.2	3.01	3.16	3.01	3.21
Energy class	A	B	B	B	B
Dimensions and weights					
Height (mm)	821	821	821	1363	1363
Width (mm)	908	908	908	908	908
Depth (mm)	350	350	350	350	350
Empty weight (kg)	61	61	71	105	105
Sound levels					
Sound pressure** (db)	42	42	44	47	48
Electrical					
Voltage (V/Hz)	230/50	230/50	230/50	230/50	230/50

* CoP (1) - outside air +7°c / water 30-35°C.
* CoP (2) - outside air +7°c / water 40-45°C.
** Sound pressure measured in a hemispheric field 4 meters in front of the fan.

[1]When fitting a low loss header, an external pump is required.

Vokèra Support

Technical training

Vokèra offer training nationwide, we have four Vokèra training centres and nine satellite centres:

- Internal site
- External site

Aberdeen
Glasgow
Belfast and Crumlin
Callan
Sunderland
Bradford
Chesterfield
Birmingham
London Colney
London E4
Langport
Chichester
Plymouth

Vokèra technical training delivers real value to Gas Safe Registered engineers. Our technical training focuses on an engineers need to become familiar with the product and to enable quick and simple installation or repair.

Our technical training is structured to ensure you cover: the appliance range, installation, operation, wiring, flueing, benchmark, fault finding and commissioning. To attend you must be Gas Safe Registered.

Vokèra Product Courses

High Efficiency Product Course explains how condensing boilers operate through using controls such as zero governors.

Fault Finding Product Course is designed for engineers to test their knowledge & fault finding skills in a real life environment on working boilers.

Controls Course can help you understand the fundamentals of how control technology can work in conjunction with boiler operation.

New Entrants Course is aimed at newly qualified gas engineers and is ideal for those who want to improve their knowledge of how to incorporate a gas appliance into a heating system.

Renewable Overview Product Course will provide you with an understanding of the Vokèra Zenith Solar products, Air Source Heat pumps and an insight into the theory of Solar Domestic Hot Water.

Individual or tailored Workshops are tailored to individual or group training requirements.

CondexaPRO Product Course contains an overview of the features and components of the boiler, system configurations, wiring of the external controls, flue options and commissioning.

CUSTOMER FEEDBACK

Vokèra product courses receive many positive comments from those who have attended them, below is a selection of comments received recently:

- One of the best courses I have attended.

- Clear and precise explanations given during the course.

- The trainer provided such good valuable knowledge about the new boiler, it makes me feel comfortable and happy to install Vokèra.

- The trainer opened my mind up about the boilers, made everything so easy to understand and the course was practical and hands on. I cannot compare this training with any others I have had in the past.

Certificated Courses

All certificated courses are accredited by LOGIC Certification. Our range of certificated 1 day courses include:

Energy Efficiency Certificate looks at energy efficiency for boilers, hot water and controls with an open book exam at the end and is based on a pre-defined PowerPoint presentation.

Hot Water Systems and Safety Certificate is recognised by those Competent Person Schemes (CPS) and covers: water regulations, unvented requirements, Legionella overview and much more.

Vokèra also offer a variety of CPD presentations, please contact Vokèra training for more information.

CONTACT VOKERA TRAINING

Telephone:	0844 391 0999 (option 5)
Email:	training@vokera.co.uk

Vokèra Support

Customer Care Team - 0844 391 0999 (option 2)

We pride ourselves on providing a first class after sales service with a dedicated customer care centre in the UK and Ireland, supported with 41 factory trained Vokèra field engineers along with 85 service agents, who support every Vokèra installation.

- Every engineer carries a full complement of spare parts to help ensure a high first time fix rate
- Real time data field reports for service contracts
- Full monthly reports can be provided to monitor call outs
- One point of contact to report and discuss service issues
- Full audit trail to track service calls

Our customer care team are available between 8.15am – 5pm on Monday - Friday or 9am - 12pm on Saturday and Sunday (excluding Bank holidays).

Technical Support 0844 391 0999 (option 4)

Our fully trained, Gas Safe registered technical team provides post sales technical help to support the Installer.

Product Warranty

As with all domestic gas boilers, an annual service is recommended to maintain optimum performance, efficiency and safety. In addition to a free 2 year, 5 year or 7 year warranty (depending on the boiler model), we also make a promise to all our customers:-

Our dedicated customer service team and Gas Safe registered engineers are available 6 days a week to support the needs of every single Vokèra boiler installation. They aim to respond to every call within 48 hours or less, or at a time agreed with the homeowner. They will make every effort to solve any technical problem over the phone, answering quickly, politely and at all times acting in the best interest of our customers.

All warranties are subject to registration and annual servicing.

Accreditations and Quality Assurances

Vokèra is recognised for the quality and reliability of its products. At every stage from research and development, through to production and after sales support, we build quality in. Safety is our number one priority.

- BS EN ISO9001:2000 Approved
- Support the 'benchmark' initiative
- Members of the Heating and Hotwater Council
- Members of Energy Utilities Alliance
- Supplier members of the Association of Plumbing and Heating Contractors (APHC)
- Registered Gas Safe with our technical support team and trainers all being Gas Safe registered
- Every product is pre-tested at the factory ensuring the highest quality and reliability

Vokèra is a licensed member of the Benchmark scheme which aims to improve the standards of installation and commissioning of domestic hot water systems in the UK.

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Customer Care Team	service@vokera.co.uk
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Boiler Upgrade	boilerupgrade@vokera.co.uk

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