

COMBI SYSTEM & REGULAR BOILERS \ WATER HEATERS \ WATER CYLINDERS \ SPARE PARTS \ AFTER SALES SERVICE \ TRAINING



EVACUATED TUBE SOLAR THERMAL COLLECTORS \ ON TILE & INSET FLAT PLATE SOLAR THERMAL COLLECTORS \ AIR TO WATER HEAT PUMPS





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 earth's natural resources.

Vokèra Home Heating Solutions		2
<hr/>		
HE Boiler Systems for Domestic Applications		
NEW Linea One	High efficiency combi boiler	4
Unica HE	High efficiency combi boiler	8
Unica Balcony HE	High efficiency balcony combi boiler	10
NEW Compact A	High efficiency combi boiler	12
Mynute HE	High efficiency sealed system boiler	14
Mynute VHE	High efficiency open vent boiler	16
AquaFlow	Unvented water cylinder	18
<hr/>		
Water Heaters		
AquaNova	Instantaneous multipoint water heater	19
<hr/>		
HE Boiler Range for Light Commercial Applications		
CondexaPRO	Wall hung condensing boiler	20
<hr/>		
Domestic Boiler Feature Quick Reference Chart		22
Flue Guidance and Options		23
Energy Saving Controls		27
<hr/>		
Vokèra Renewable Energy Solutions		
<hr/>		
Solar Thermal Systems		
Introducing Solar thermal technology and the Vokèra Zenith range		29
Zenith Evacuated Tube	Solar thermal collectors	30
Zenith On Tile	Solar thermal collectors	32
Zenith Inset	Solar thermal collectors	34
AquaFlow Twin	Unvented twin coil water cylinder	36
<hr/>		
Zenith Solar Thermal Components Matrix		37
Zenith Solar Thermal Parts Listing		38
<hr/>		
Heat Pump Systems		
Introducing Air source pump technology and the Vokèra Aria range		39
Aria	Air to water heat pump	40
<hr/>		
Vokèra Support		
Pre Sales Support		43
Approved Installer Programme		43
Technical Training		44
Customer Care		45
Quality Assurances		46
Contact Us		46



A growing reputation you can depend on

Vokèra Home Heating Solutions

Quality and reliability

More than 1.5 million boilers have been installed around the UK and Ireland demonstrating our wealth of experience in home heating. As part of the global Riello Group, 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 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, the Society of British Gas Industries and Gas Safe Register™

In support of this we back our boilers with a 2 year warranty and our Solar flat plate collectors with a 10 year warranty.

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 combination, system and open vent boilers in high efficiency, light commercial boilers and water heaters and cylinders.

Renewable energy technology products, including evacuated tube, flat plate on tile and inset Solar thermal collectors and air source heat pumps, also feature within the Vokèra range.

Versatility

Vokèra boilers are available in natural gas with kits available to allow simple conversion to a different gas type. A wide range of flue options means that Vokèra appliances are extremely versatile – there isn't any place in the home where they can't be installed.

Support

Our support network incorporates a Pre Sales support advice service, technical training, technical support service and a Customer Care team dedicated on providing great service.



High efficiency condensing technology

The latest technology is used to maximise the efficiency of all Vokèra products. All Vokèra boilers conform to the SEDBUK requirements of the Building Regulations. SEDBUK is a government standard which measures seasonal efficiency of all boilers.

A Vokèra high efficiency model is 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.

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

Intelligent controls

Vokèra boilers boast some of the latest innovations in technology, including OpenTherm communication protocol. This technology is built into the Vokèra Linea One, Unica HE and Mynute HE ranges so that they are compatible with OpenTherm + controls and devices.

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

The installation and correct use of a Vokèra intelligent control can save up to 10% of a home's energy usage whilst providing a more comfortable and stable room temperature for the end user.



Wireless OpenTherm Protocol Control

Wireless RF Transmitter - Free standing or wall mounted

Wireless OT Receiver - Wall mounted or placed in the boiler

warmth

NEW

INTRODUCING LINEA ONE

The advanced heating and hot water solution from Vokèra

ALSO INCLUDED IN THE BOX:

EXCLUSIVE 5 YEAR WARRANTY*

PRE FIXING JIG FOR EASIER
INSTALLATION

BUILT IN FILLING LOOP FOR
INSTALLATION CONVENIENCE

WEATHER COMPENSATION CONTROL
TO INCREASE EFFICIENCY BY 3%**

PIPE COVER TO ENSURE AN
ELEGANT INSTALLATION



*Subject to registration and annual service

**As proposed in SAP 2009

Home owners who upgrade their boiler to a condensing appliance could save up to £225 a year*

The Linea One is our top of the range appliance and has been designed to provide the complete heating and hot water solution for domestic applications. Rated 'A' for efficiency the Linea One combi boiler is over 90% efficient and is one of the most energy efficient appliances on the market. By utilising the weather compensation technology, supplied as standard with the Linea One, the SAP efficiency can be increased by a further 3%, making the Linea One up to 93% efficient!**.

Highest technology

By incorporating the most advanced technology available an extremely high modulation ratio of 10:1 has been achieved. This modulation range means that the Linea One can satisfy the heating and hot water requirements for domestic properties of different sizes, from one bedroom flats to larger detached homes whilst maintaining its efficiency. Its modulating pump can reduce electrical consumption by up to 50%, helping to reduce fuel bills and also minimise any temperature fluctuations to provide a continuous flow of hot water, ensuring total end user comfort.

5 year parts and labour warranty

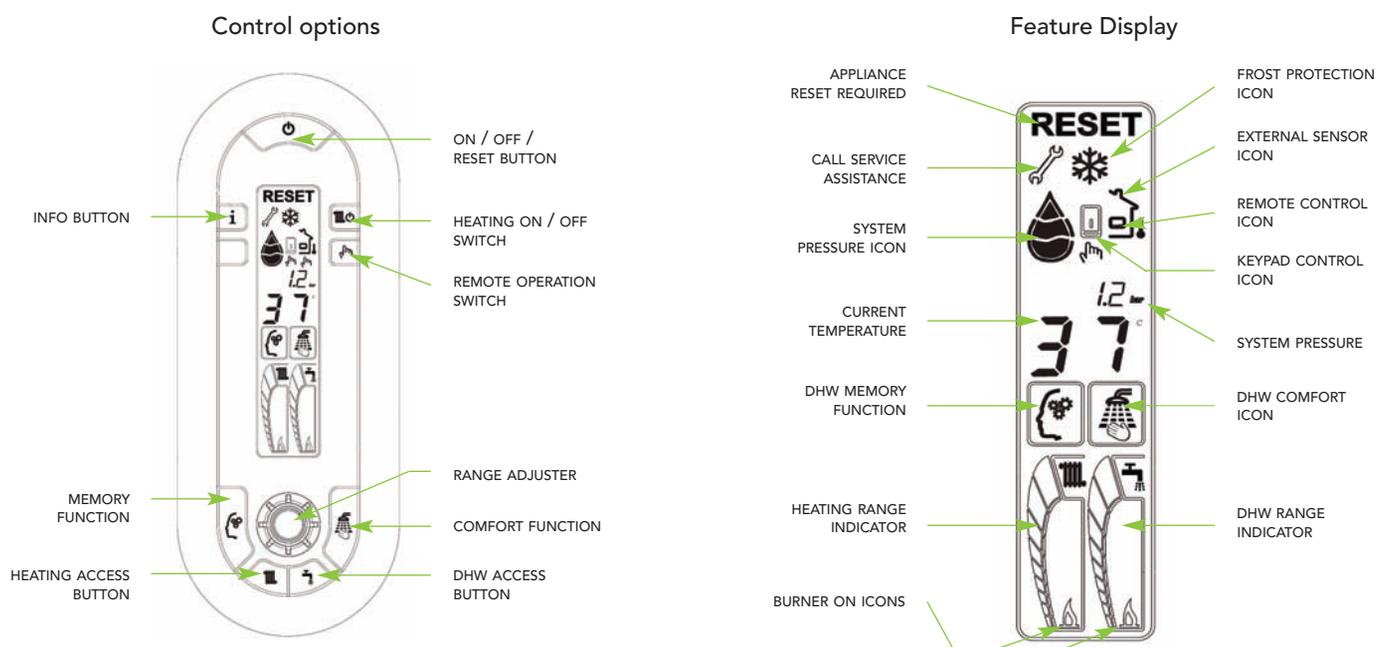
The Linea One is backed by an exclusive 5 year warranty (subject to registration and annual servicing), highlighting the quality of build of the appliance. With every boiler being tested thoroughly before it leaves the factory, you can be confident in the Linea One providing a heating and hot water supply you can rely on year after year.

Easy installation

A pre fixing jig and built in filling loop are supplied as standard with the Linea One, ensuring the simplest of installation. The standard Vokèra pipework layout also enables trouble-free replacements of older Vokèra models.

Complete control

The intelligent functions of the Linea One enable both the domestic hot water and central heating temperatures to be controlled. The Linea One offers the widest choice of operating functions within our boiler portfolio, ensuring home owner comfort while helping to maximise energy savings. The simple to use controls detail the current operating mode on a back lit display so it is clearly visible and easy to adjust. The Linea One comes with the weather compensation control supplied as standard and is also compatible with the OpenTherm programmable room thermostat. (For further information on these controls please see p.27)



*The savings for the condensing boiler upgrade are for changing from an old G rated boiler to an A rated condensing boiler and a full set of heating controls. Source EST
**As proposed in SAP 2009

Linea One

High efficiency combi boiler

- 

'A' rated*
- 

5 year warranty
- RIELLO HEAT EXCHANGER
- BUILT IN FILLING LOOP
- 

PRE FIXING JIG
- MODULATION RATIO 10:1
- 

WEATHER COMPENSATION CONTROL SUPPLIED
- 

PIPE COVER



Pipe cover included, supplied in the box.

SEDBUK 'A' rated*.

Awaiting confirmation of Energy Saving Trust Recommended certification mark.

5 year parts and labour warranty⁽¹⁾.

Weather compensation control, supplied as standard, can increase SAP efficiency by a further 3%⁽²⁾.

Flow rate of up to 15.6 l/min results in quick delivery of hot water.

DHW memory function memorises the DHW usage pattern over past 7 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%.

Low NOx – Class-5 performance with only 29mg/kWh .

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.

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.

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

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.

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

New unique radial aluminium heat exchanger from Riello provides excellent thermal transfer and anti-corrosion properties. New design reduces possibility of condense residue build up prolonging the need to clean the component.

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. 4 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). ⁽³⁾

Can be converted to LPG with LPG Kit.

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

⁽¹⁾Subject to registration and annual service

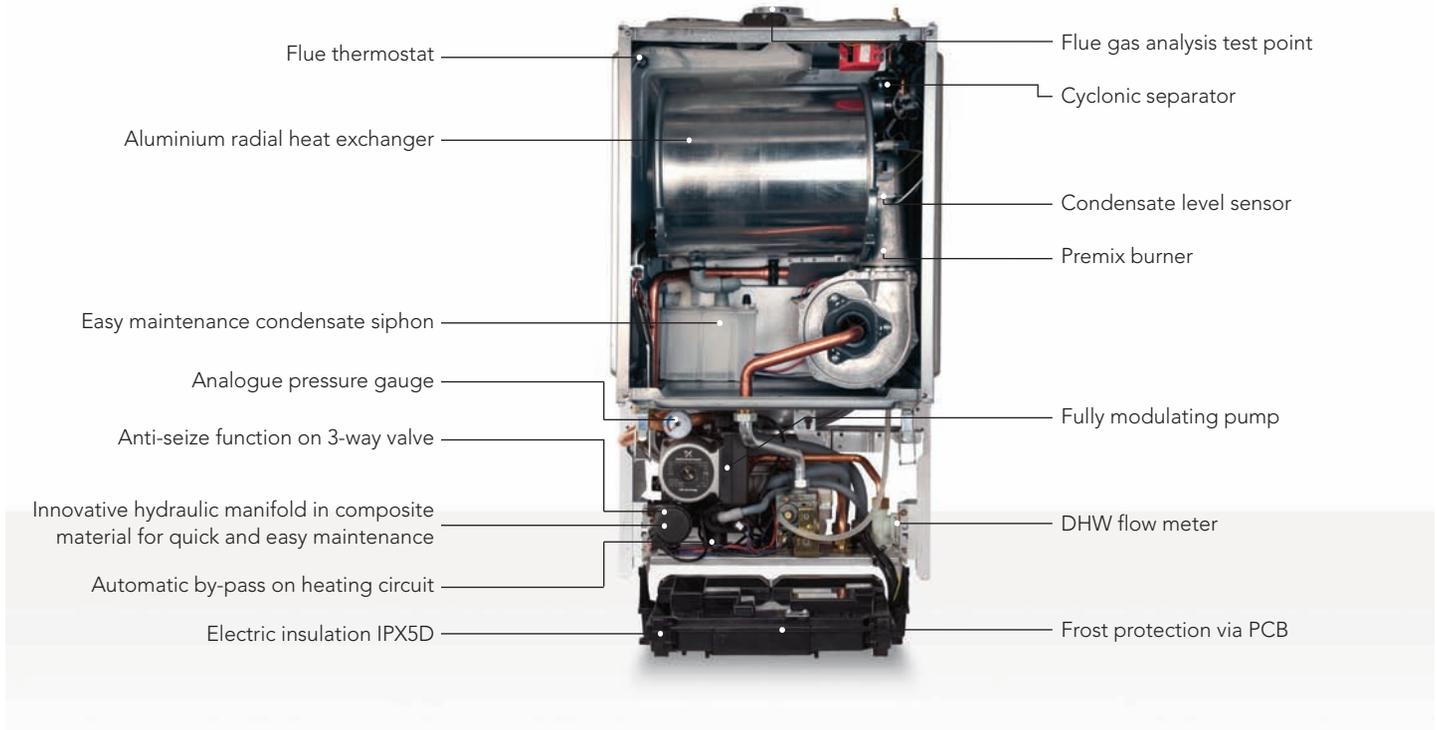
⁽²⁾As proposed in SAP 2009

⁽³⁾Autostop activation device required. Contact Vokèra technical for assistance.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
OpenTherm RF control	611
Wiring Kit for use with OpenTherm control	1221179
NEW Telescopic flue terminal	29450121
Plume management kit*	522
Plume management kit extension*	29450131

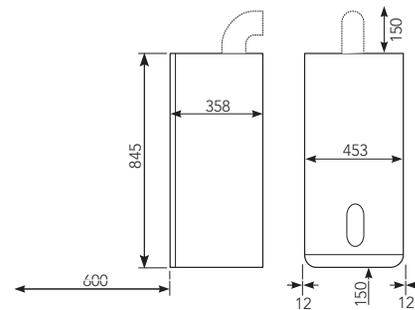
*Contact Vokèra Technical Helpline for assistance



SPECIFICATIONS	Linea One 38HE
Product order code	20023491
Central Heating	
Heat input (kW)	30
Maximum heat output @ 60/80 °C (kW)	29.3
Maximum heat output @ 30/50 °C (kW)	32
Minimum heat output @ 60/80 °C (kW)	3.8
Minimum heat output @ 30/50 °C (kW)	3.8
Domestic Hot Water	
Maximum heat input (kW)	38
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 hot & cold	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	
SEDBUK* (%)	90.1 (A)
NOx class	5

*SEDBUK 2005

DIMENSIONS AND CLEARANCES (MM)



ENVIRONMENTALLY FRIENDLY

Vokèra are committed to creating the most environmentally friendly products available and continue to invest in limiting emissions such as CO₂ and NO_x. The Linea One boasts both impressive energy efficiency ratings and has the best class for NO_x 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.

NO_x Class 5
at only 29mg/kWh

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

Unica HE

High efficiency combi boiler

- 

'A' rated*
- 

2 year warranty
- 

Energy Saving Trust recommended
- RIELLO HEAT EXCHANGER
- BUILT IN FILLING LOOP
- 

PRE FIXING JIG



Mechanical clock and pipe cover not included, shown as optional extras.

SEDBUK 'A' rated*.

Energy Saving Trust Recommended certification mark.

Low NOx - Class-5 performance.

Reduces running costs by up to 35% more than a conventional boiler, helping to safeguard the environment.

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. Automatic bypass and easy-fit condense connection as well as standard Vokèra pipework layout enables 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.

High modulation ratio, increasing efficiency and component longevity.

Hot water pre-heat provides instant hot water at any time, saving time and energy.

Self-start programming protects the pump and motorised valve 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, protects the appliance from damage during periods of cold weather.

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

Standard Autostop disabling function** 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.

Versatile flueing options enable the boiler to be sited almost anywhere in the home.

Built-in thermo-regulation to increase further fuel efficiency. Attach the outside weather compensation control to increase energy efficiency.

Can be converted to LPG with LPG Kit.

**Autostop activation device required. Contact Vokèra Technical Helpline for assistance.

INCREASE SAP EFFICIENCY BY 2%

The Vokèra OpenTherm Protocol RF Programmable Room Thermostat uses OpenTherm protocol technology to modulate the Vokèra boiler outlet temperature, as set by the homeowner, maximising boiler efficiency. For further information visit the Vokèra website.



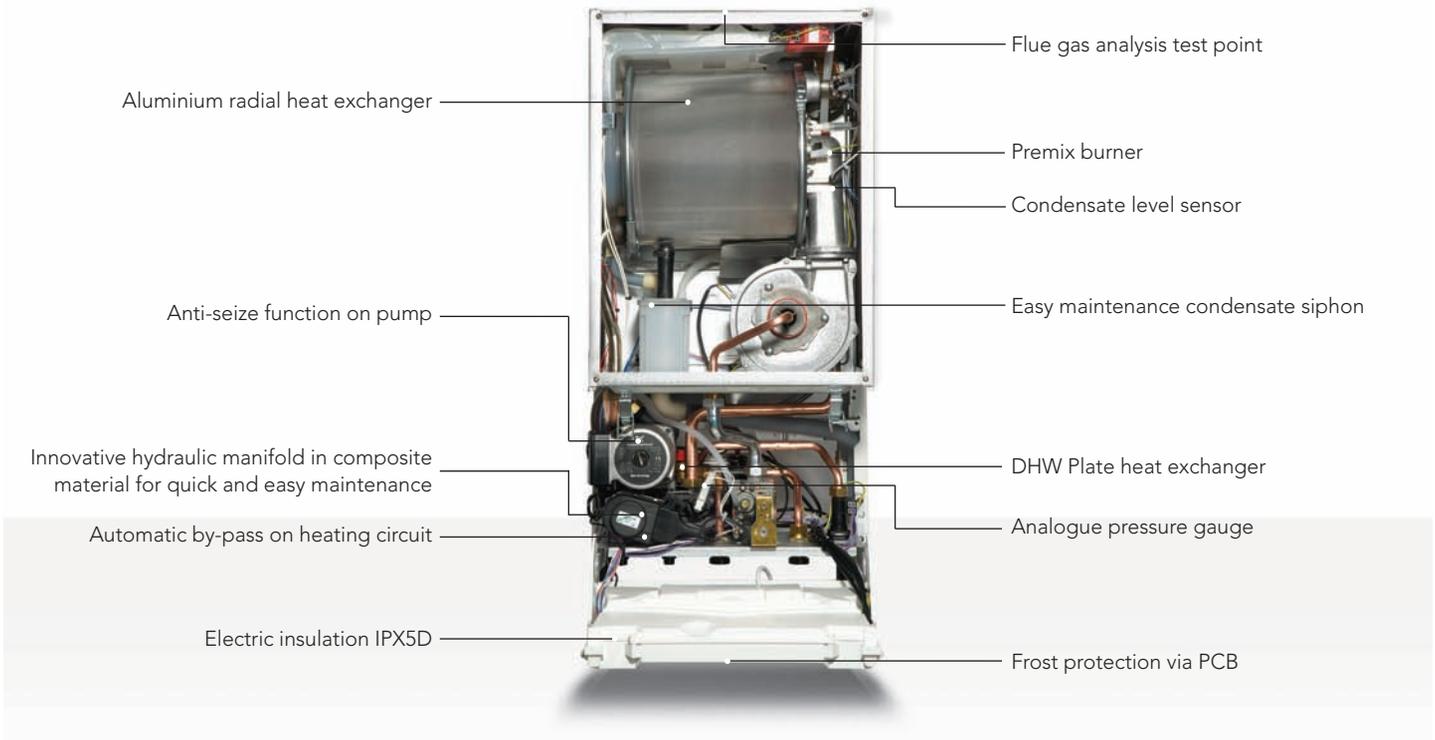
Wired receiver can be located next to or inside the boiler

Wireless transmitter can be wall mounted or free standing

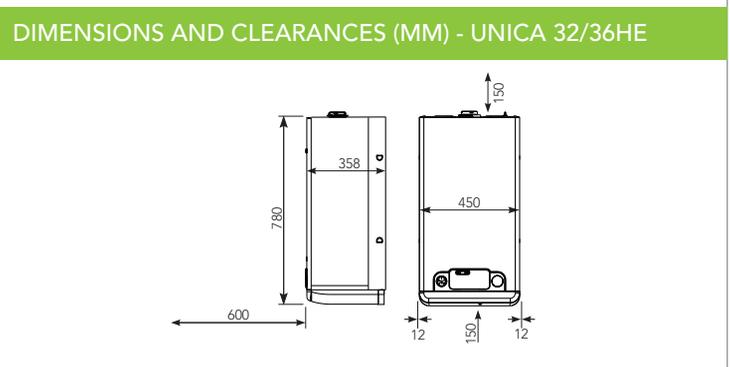
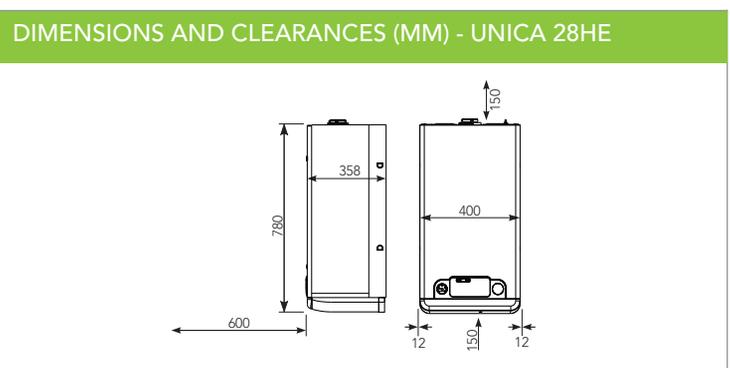


ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
OpenTherm RF Control	611
Weather compensation control	2359259
White pipe cover 400mm/450mm	518 / 519
Mechanical clock	433
Plume management kit	522
Plume management kit extension	29450131
NEW telescopic flue terminal	29450121



SPECIFICATIONS	Unica 28HE	Unica 32HE	Unica 36HE
Product order code	910	912	914
Central Heating			
Heat input (kW)	20	25	30
Maximum heat output @ 60/80 °C (kW)	19.6	24.45	29.31
Maximum heat output @ 30/50 °C (kW)	21.0	26.3	31.83
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	45
Connections			
Flow & return	22mm	22mm	22mm
Gas	15mm	15mm	15mm
DHW hot & cold	15mm	15mm	15mm
Safety valve	15mm	15mm	15mm
Condense	21mm	21mm	21mm
Electrical			
Voltage (V/Hz)	230/50	230/50	230/50
Flue Details (concentric)			
Maximum horizontal flue length (60/100mm)	7.8m	7.8m	7.8m
Maximum vertical flue length (60/100mm)	8.8m	8.8m	8.8m
Maximum horizontal flue length (80/125mm)	20m	20m	20m
Maximum vertical flue length (80/125mm)	25m	25m	25m
Flue Details (twin pipes)			
Maximum horizontal flue length (80mm/80mm)	40m/40m	35m/35m	35m/35m
Maximum vertical flue length (80mm/80mm)	40m/40m	35m/35m	35m/35m
Efficiency			
SEDBUK* (%)	90.5 (A)	90.2 (A)	90.1 (A)
NOx class	5	5	5



*SEDBUK 2005

Unica Balcony HE

High efficiency balcony combi boiler

- 

'A' rated*
- 

2 year warranty
- DESIGNED FOR EXTERNAL INSTALLATIONS
- RIELLO HEAT EXCHANGER
- BUILT IN FILLING LOOP
- 

PRE FIXING JIG



Pipe cover included, supplied in the box.

SEDBUK 'A' rated*.

Designed specifically for external installations, requiring only limited protection to withstand typical UK weather conditions.⁽¹⁾

Optional protective security case to reduce possible vandalism.

Low NOx - Class-5 performance.

Full IPX5D rating enables the Unica BHE to be installed either on a balcony or on an external wall.

Reduces running costs by up to 35% more than a conventional boiler, helping to safeguard the environment.

Ideal for problematic installations; flats with limited space, if there are difficulties with flue clearances or if a long run to an adequate soak away for the condensate is foreseen.

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.

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

Extremely high modulation ratio, increasing efficiency and component longevity.

Hot water pre-heat provides instant hot water, saving time and energy.

Self-start programming protects the pump and motorised valve 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, protects the appliance from damage during periods of cold weather.

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

Standard Autostop disabling function⁽²⁾ 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.

Versatile flueing options that can reach lengths up to 40 metres.

Built-in thermo-regulation to increase further fuel efficiency. Attach an energy saving control to increase energy efficiency.

Can be converted to LPG with LPG Kit.



CONTROL PANEL

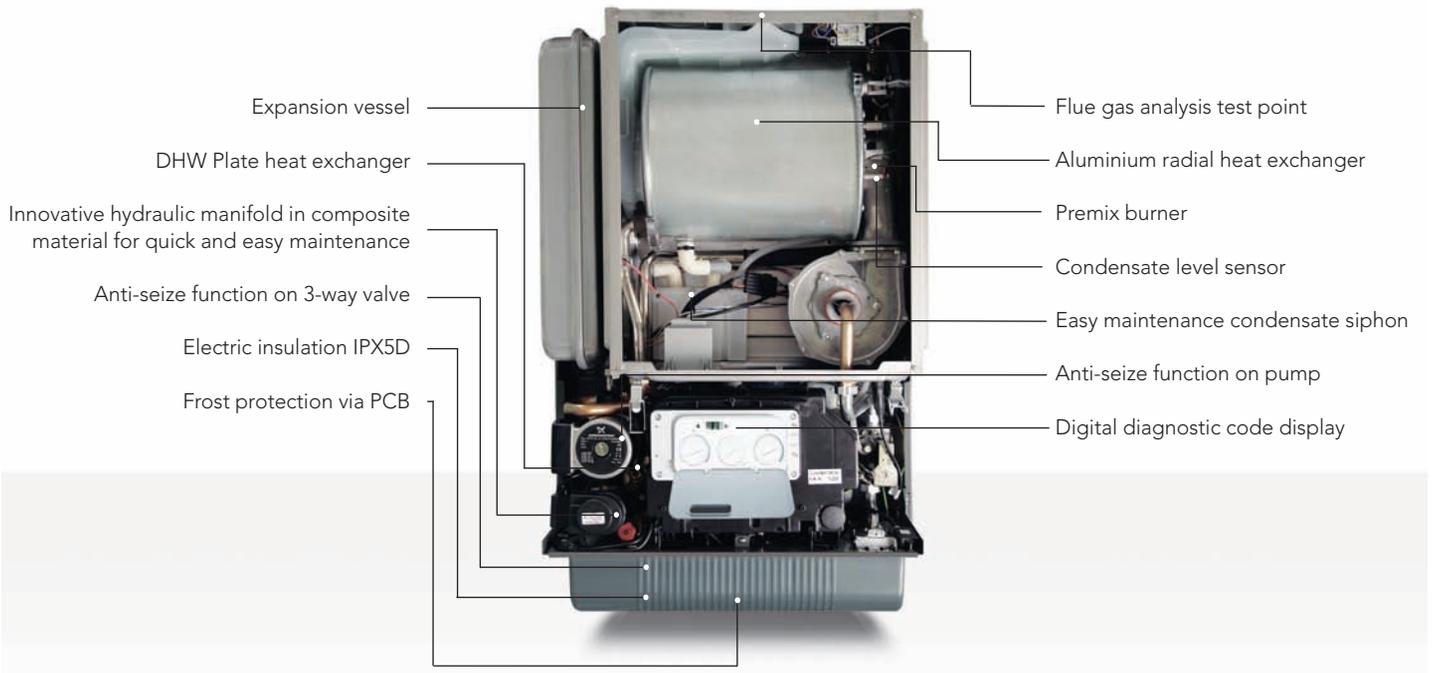


ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
REC07 programmable room thermostat	1221169
Weather compensation control	2359259
Security casing (protects against vandalism)	1103289

⁽¹⁾ Some additional protection may be required for extreme weather conditions.

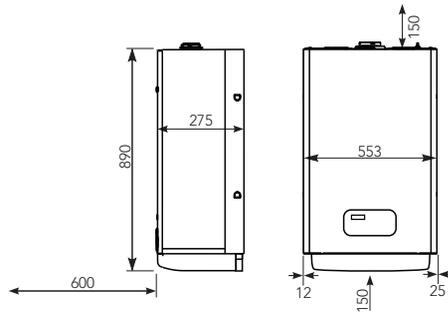
⁽²⁾ Autostop activation device required. Contact Vokera Technical Helpline for assistance.



SPECIFICATIONS	Unica 32 BHE
Product order code	20001056
Central Heating	
Heat input (kW)	25
Maximum heat output @ 60/80 °C (kW)	24.45
Maximum heat output @ 30/50 °C (kW)	26.3
Domestic Hot Water	
Heat input (kW)	32
Flow Rate - 35°C rise (l/min)	13.1
Weight	
Dry weight (kg)	44
Connections	
Flow & return	22mm
Gas	15mm
DHW hot & cold	15mm
Safety valve	15mm
Condense	21mm
Electrical	
Voltage (V/Hz)	230/50
Flue Details (concentric)	
Maximum horizontal flue length (60/100mm)	7.8m
Maximum vertical flue length (60/100mm)	8.8m
Maximum horizontal flue length (80/125mm)	20m
Maximum vertical flue length (80/125mm)	25m
Flue Details (twin pipes)	
Maximum horizontal flue length (80mm/80mm)	40m/40m
Maximum vertical flue length (80mm/80mm)	40m/40m
Efficiency	
SEDBUK* (%)	90.2 (A)
NOx class	5

*SEDBUK 2005

DIMENSIONS AND CLEARANCES (MM) - UNICA 32 BHE



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

OPTIONAL GALVANISED CASING

The Vokèra Unica BHE is designed for external installations and this casing offers further protection from extreme weather conditions.

It is to be used when on an external wall with no cover/protection from the elements.

When installed below a balcony no galvanised casing is required.



Galvanised case open



Galvanised case closed

Compact A

High efficiency combi boiler



SEDBUK 'A' rated*.

Awaiting confirmation of Energy Saving Trust Recommended certification mark.

Compact dimensions and low lift weight enable a flexible installation with the boiler able to be sited almost anywhere in the home.

Reduces running costs by up to 35% more than a conventional boiler, helping to safeguard the environment.

Attach the RF wireless combined room thermostat and 24hr clock to increase efficiency and maintain optimum room temperature.

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

Hot water survivor function:- If the hot water thermistor fails it will use the primary thermistor to provide hot water at 55°C 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.

Optional mechanical clock and pipe cover are available to buy as a kit, providing a more cost effective package.

Anti-cycling control prevents energy 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 condensate 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 with LPG Kit.

Individual heating and hot water controls ensure a simple temperature adjustment operation for the end user.

CYCLONIC AIR AND PARTICLE SEPARATOR

The Compact A incorporates Vokera's recently introduced Cyclonic Separator. The Cyclonic Separator provides a significant improvement in the effectiveness of the 'air separator' and can also capture particulates from the system water. Its distinct advantages include:

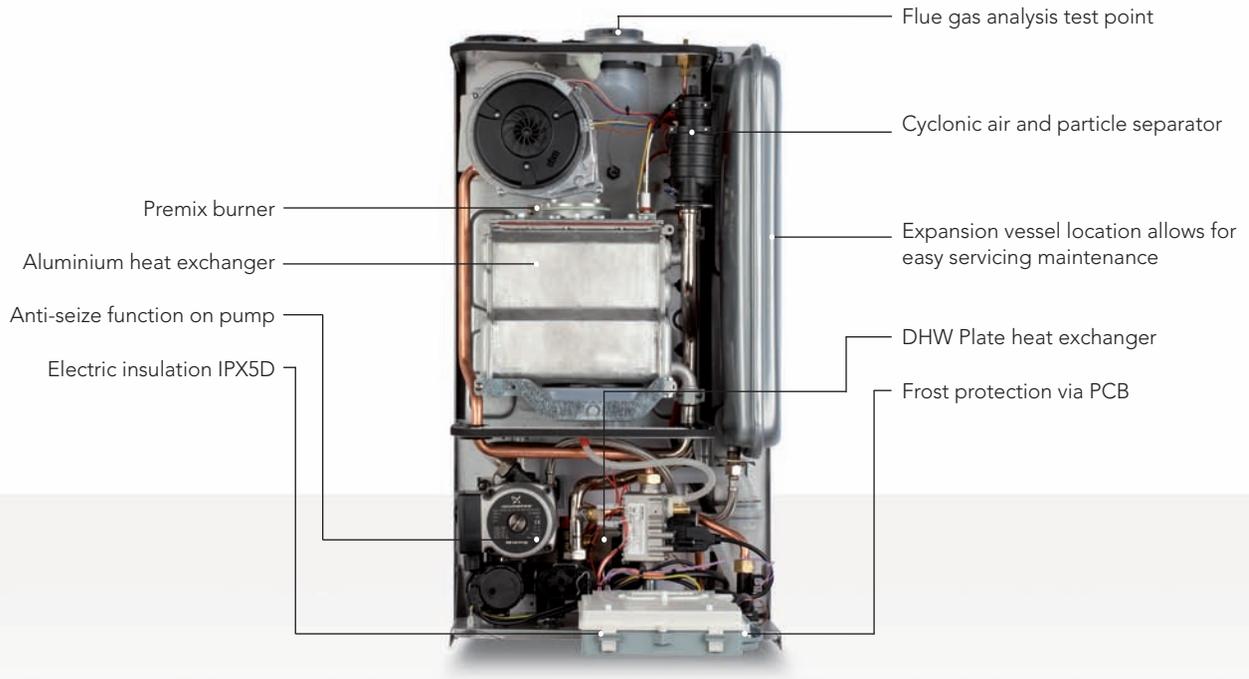
- Reduced pressure loss through the hydraulic circuit of the boiler
- Quicker discharge of air during commissioning.
- Possibility to now remove and clean the inside of the separator, removing any particulates that may have been trapped
- Quick-release clips – no tools required, reduces time spent on routine maintenance

N.B: This device/component is not intended to substitute or replace any requirement for an external dirt separator



ENERGY SAVING CONTROLS AND OPTIONS

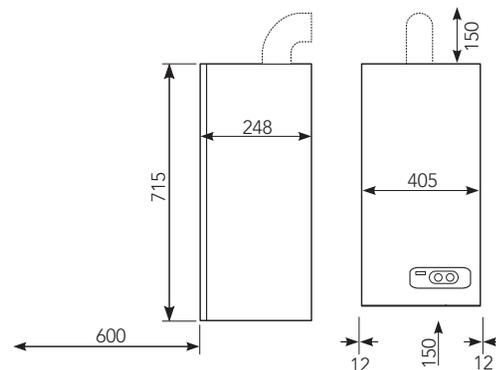
Description	Code
Clock kit (including mechanical clock and pipe cover)	20025081
Pipe cover	20012594
RF wireless combined room thermostat and 24 hr clock	20029494
NEW telescopic flue terminal	29450121
Compact 25A LPG kit code	01005446
Compact 29A LPG kit code	20029005



SPECIFICATIONS	Compact 25A	Compact 29A
Product order code	20020831	20020832
Central Heating		
Heat input (kW)	20	25
Maximum heat output @ 80°C/60°C (kW)	19.5	24.4
Domestic Hot Water		
Maximum input (kW)	25	29.5
Flow Rate - 35 °C rise (l/min)	10.2	12.1
Weight		
Dry weight (kg)	30	32
Connections		
Flow & return	22mm	22mm
Gas	22mm	22mm
DHW hot & cold	15mm	15mm
Safety Valve	15 mm	15mm
Condensate	21mm	21mm
Flue details (concentric)		
Maximum horizontal flue length (60/100)	4.0m	4.0m
Maximum vertical flue length (60/100)	5.0m	5.0m
Flue details (twin pipes)		
(Horizontal or vertical) + terminal	20/20m	20/20m
Electrical data		
Voltage (V/Hz)	230/50	230/50
Efficiency		
SEDBUK* (%)	90.0 (A)	90.1 (A)
NOx class	5	5

*SEDBUK 2005

DIMENSIONS AND CLEARANCES (MM) - COMPACT 25/29 A



CONTROL PANEL



Mechanical clock and pipe cover available as optional extras. Not shown.

Mynute HE

High efficiency system boiler

- 

'A' rated
- 

2 year warranty
- 

Energy Saving Trust recommended
- RIELLO HEAT EXCHANGER
- 

COMPATIBLE WITH SOLAR THERMAL
- PIPE COVER AVAILABLE AS OPTIONAL EXTRA



SEDBUK 'A' rated*.

Reduces running costs by up to 35% more than a conventional boiler, helping to safeguard the environment.

Energy Saving Trust Recommended certification mark.

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

Low pressure loss reduces noise and increases pump performance.

Designed for easy installation.

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

Extremely high modulation ratio, increasing efficiency and component longevity.

Low NOx - Class-5 performance.

Self-start programming 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, protects the appliance from damage during periods of cold weather.

Versatile horizontal or vertical flueing options – using Vokèra's concentric or twin flue systems – enable the boiler to be sited almost anywhere in the home.

Standard Autostop disabling function⁽¹⁾ 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.

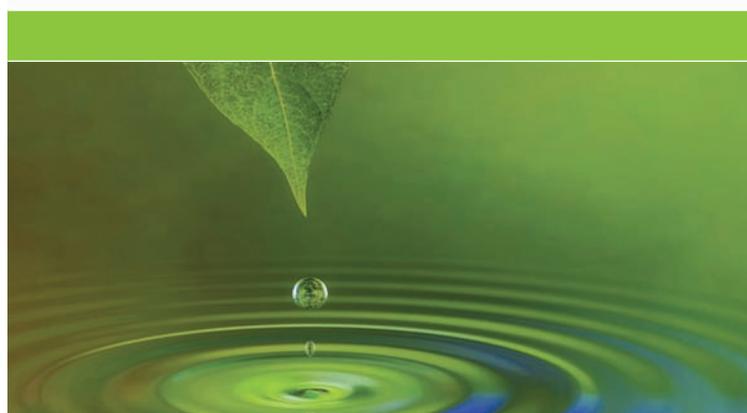
Optional clock/programmer, enabling direct control over the central heating timings.

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

Built-in thermo-regulation to increase further fuel efficiency. Attach an energy saving control to increase energy efficiency.

Can be converted to LPG with LPG Kit.

Compatible with Zenith Solar thermal.



CONTROL PANEL



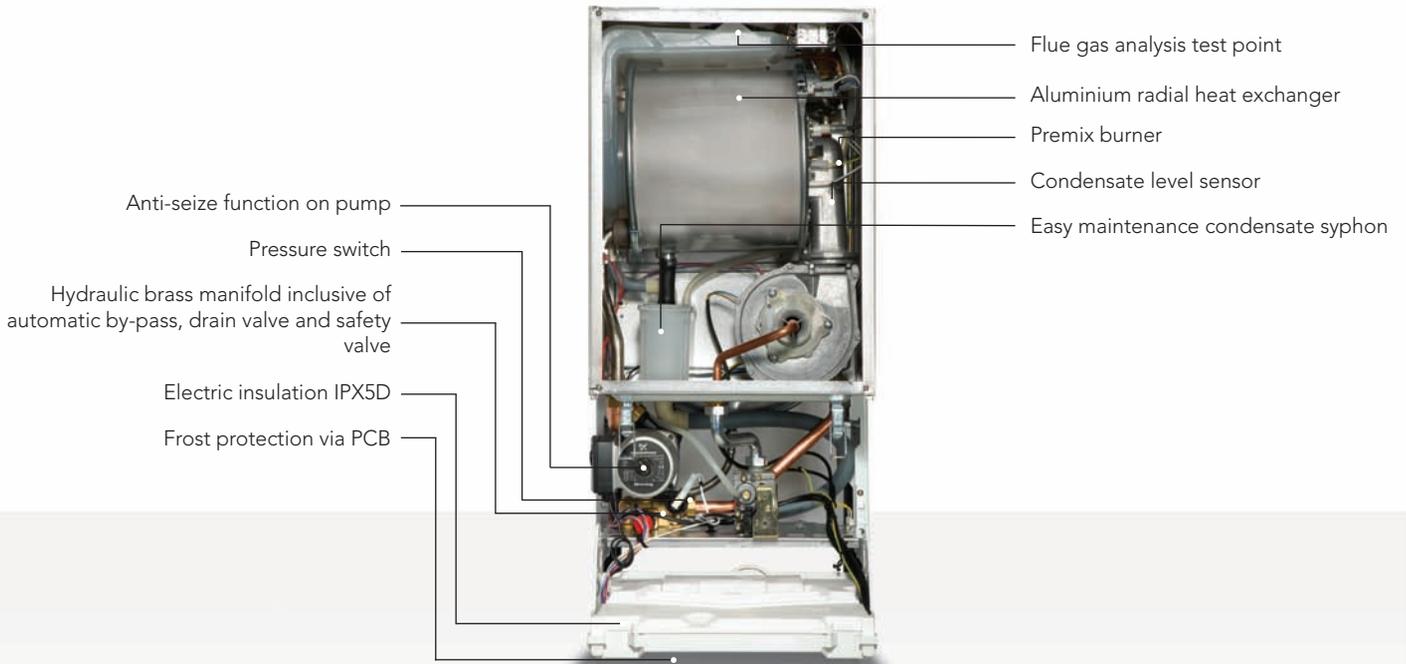
Digital clock and pipe cover not included, shown as optional extras.

ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Weather compensation control ⁽²⁾	2359259
White pipe cover 400mm/450mm	518/519
Digital clock	514

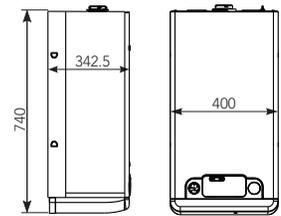
⁽¹⁾Autostop activation device required. Contact Vokèra Technical Helpline for assistance.

⁽²⁾Contact Vokèra Technical Helpline for advice



SPECIFICATIONS	Mynute 12HE	Mynute 15HE	Mynute 20HE	Mynute 25HE	Mynute 30HE	Mynute 35HE
Product order code	870	872	874	876	878	880
Central Heating						
Heat input (kW)	12	15	20	25	30	34.6
Maximum heat output (kW) 60/80°C	11.84	14.81	19.68	24.53	29.31	33.67
Maximum heat output (kW) 30/50°C	12.74	15.9	21.16	26.3	31.83	36.54
Weight						
Dry weight (kg)	38	38	38	39	42	42
Clearances						
Sides	12mm	12mm	12mm	12mm	12mm	12mm
Top**	150mm*	150mm*	150mm*	150mm*	150mm*	150mm*
Bottom	150mm	150mm	150mm	150mm	150mm	150mm
Front	600mm	600mm	600mm	600mm	600mm	600mm
Connections						
Flow & return	22mm	22mm	22mm	28mm	28mm	28mm
Gas	15mm	15mm	15mm	15mm	15mm	15mm
Safety valve	15mm	15mm	15mm	15mm	15mm	15mm
Condense	21mm	21mm	21mm	21mm	21mm	21mm
Flue Details (concentric & twin)						
Max horizontal flue length (60/100mm)	7.8m	7.8m	7.8m	7.8m	7.8m	7.8m
Max vertical flue length (60/100mm)	8.8m	8.8m	8.8m	8.8m	8.8m	8.8m
Max horizontal flue length (80/125mm)	20.0m	20.0m	20.0m	20.0m	20.0m	20.0m
Max vertical flue length (80/125mm)	25.0m	25.0m	25.0m	25.0m	25.0m	25.0m
Max horizontal flue length (80mm/80mm)	40m/40m	40m/40m	40m/40m	40m/40m	40m/40m	40m/40m
Max vertical flue length (80mm/80mm)	40m/40m	40m/40m	40m/40m	40m/40m	40m/40m	40m/40m
Flue type approvals	C13 – C23 – C33 – C43 – C53 – C83 – B23					
Efficiency						
SEDBUK** (%)	90.7 (A)	90.7 (A)	90.5 (A)	90.4 (A)	90.2 (A)	90.0 (A)
NOx Class	5	5	5	5	5	5

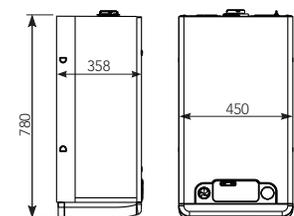
DIMENSIONS - MYNUTE 12/15/20



DIMENSIONS - MYNUTE 25HE



DIMENSIONS - MYNUTE 30/35HE



ALL DIMENSIONS IN MM

*SEDBUK 2005 **From casing or 25mm above flue elbow (whichever is applicable)

Mynute VHE

High efficiency open vent boiler

-  'A' rated
-  2 year warranty
-  Energy Saving Trust recommended
- RIELLO HEAT EXCHANGER
-  COMPATIBLE WITH SOLAR THERMAL
- KITCHEN CUPBOARD FIT



12kW / 15kW model shown.

SEDBUK 'A' rated*.

Reduces running costs by up to 35% more than a conventional boiler, helping to safeguard the environment.

Energy Saving Trust Recommended certification mark.

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.

Low NOx - Class-5 performance.

Top and bottom pipe connections⁽¹⁾ for flexibility and ease of installation.

Requires only 1-metre minimum static head.

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

Built-in thermo-regulation to increase further fuel efficiency. Attach the outside weather compensation control to increase energy efficiency.

Built-in frost protection, 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⁽¹⁾ options enable the boiler to be sited almost anywhere in the home. Flue type certification also permits Mynute VHE to be used with Vokëra's 80mm PP Flexible flue liner and B23 applications.

Pump anti-block eliminates the risk of pump seizure during periods of inactivity.

Designed for easy installation.

Compatible with Zenith Solar thermal.

Standard Autostop disabling function⁽²⁾ 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. 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.

Can be converted to LPG with LPG kit.



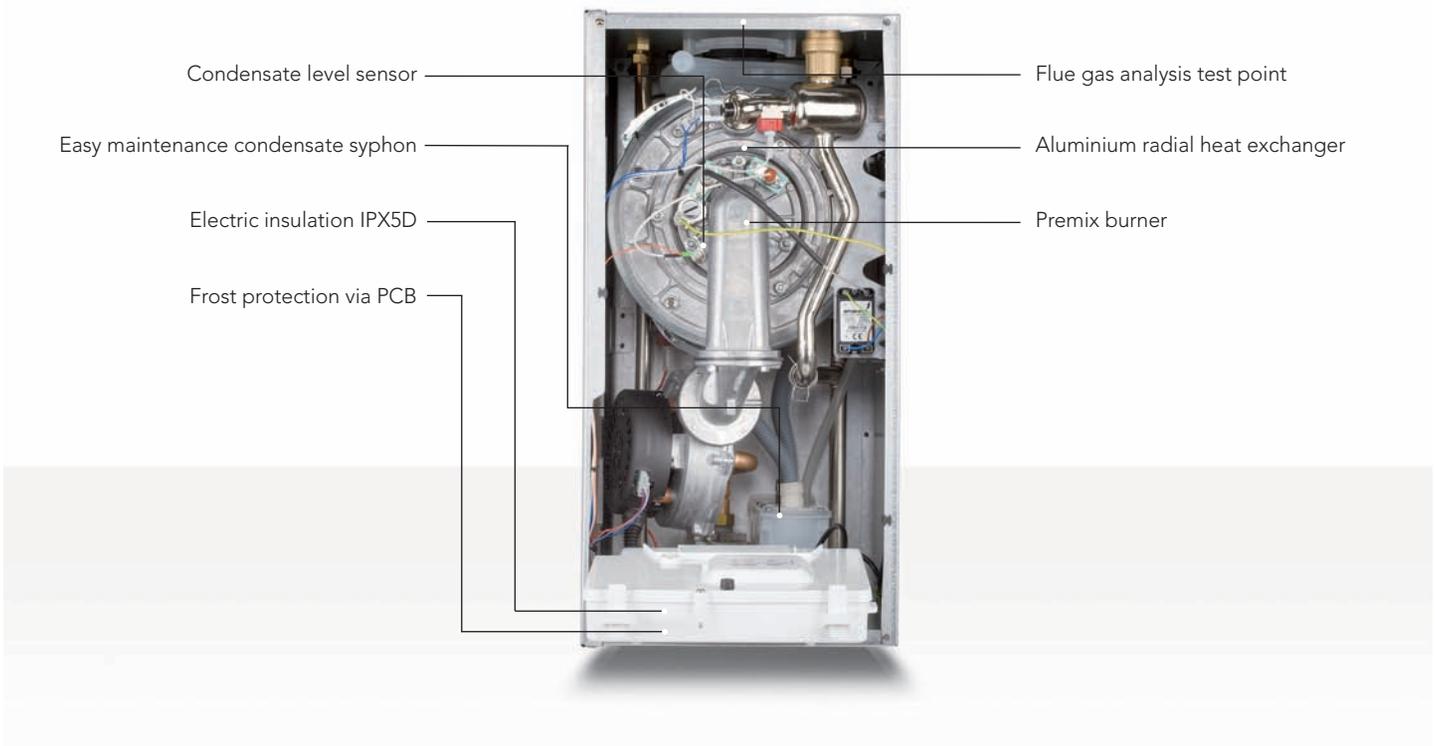
REAR FLUE AND TOP AND BOTTOM PIPE CONNECTIONS



⁽¹⁾12kW and 15kW outputs only

OPTIONS	
Description	Code
*Rear flue terminal (12kW and 15kW only)	533
White pipe cover 400mm (20kW only)	518

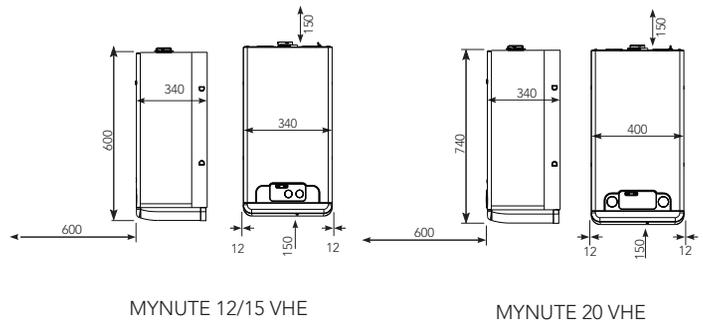
⁽²⁾Autostop activation device required. Contact Vokëra Technical Helpline for assistance.



SPECIFICATIONS	Mynute 12VHE	Mynute 15VHE	Mynute 20VHE
Product order code	882	884	886
Central Heating			
Heat input (kW)	12	15	20
Maximum heat output @ 60/80 °C (kW)	11.74	14.60	19.68
Maximum heat output @ 30/50 °C (kW)	12.64	15.74	21.16
Min static head	1m	1m	1m
Max static head	30m	30m	30m
Min flow rate at max output	500 l/h	500l/h	500l/h
Weight			
Dry weight (kg)	25	25	29
Connections			
Flow & return	22mm	22mm	22mm
Gas	15mm	15mm	15mm
Condense	21mm	21mm	21mm
Electrical			
Voltage (V/Hz)	230/50	230/50	230/50
Flue Details (concentric)			
Maximum horizontal flue length (60/100mm)	7.8m	7.8m	7.8m
Maximum vertical flue length (60/100mm)	8.8m	8.8m	8.8m
Maximum horizontal flue length (80/125mm)	25m	25m	20m
Maximum vertical flue length (80/125mm)	30m	30m	30m
Flue Details (twin pipes)			
Maximum horizontal flue length (80mm/80mm)	40m/40m	40m/40m	40m/40m
Maximum vertical flue length (80mm/80mm)	40m/40m	40m/40m	40m/40m
Efficiency			
SEDBUK* (%)	90.3 (A)	90.0 (A)	90.5 (A)
NOx Class	5	5	5

*SEDBUK 2005

DIMENSIONS AND CLEARANCES (MM)



CONTROL PANEL



No pipe cover available for 12kW and 15kW outputs.
Pipe cover for 20kW output available as optional extra.

Install this boiler with a AquafLOW unvented single coil cylinder to complete your new heating system.

See next page for details

AquaFlow

Unvented single coil water cylinder

FOR USE
WITH VOKERA
MYNUTE VHE

2
year
warranty

WRAS
APPROVED

25 YEAR
GUARANTEE ON
INNER SHELL



For use with Vokera Mynute VHE open vent boiler.

Inner shell guaranteed for 25 years, made from Super-Molybdenum.

2 years guarantee on ancillary components.

High performance mains pressure to all hot water outlets.

Up to 50-litre per minute flow rate.

WRAS Approved.

Fully flooded expansion facility enabling storage capacity from 125 – 250 litres from the 3 model range.

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

Compact dimensions.

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

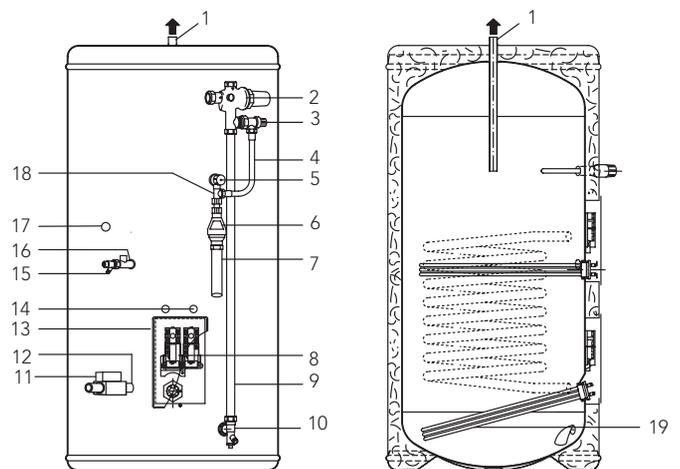
3kW immersion heater and energy cut-out device supplied as standard.

Optional secondary return connection if required.

Thermal insulation and energy efficient coil meet Part L Requirements.

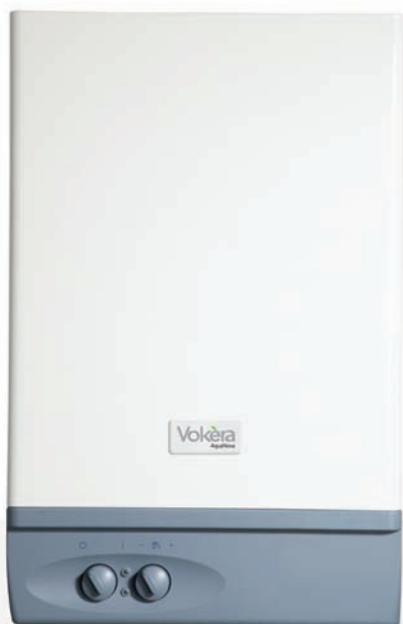
SPECIFICATIONS	AquaFlow 150	AquaFlow 200	AquaFlow 250
Product order code	863	864	865
Capacity range	125-150 litres	170-200 litres	210-250 litres
Height	900mm	1150mm	1400mm
Depth (diameter)	580mm	580mm	580mm
Weight (when full)	190kg	240kg	300kg
Coil rating	12kW	26.5kW	26.5kW
Average recovery time	30 min	26 min	28 min
Energy loss (kW/day)	1.78	2.04	2.45
Maximum working pressure	8-bar	8-bar	8-bar

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



AquaNova

Instantaneous multipoint water heater



Suitable for domestic and small light commercial applications.

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 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.



SPECIFICATIONS	AquaNova	DIMENSIONS AND CLEARANCES (MM) - AQUANOVA
Product order code	967	
Rated output to DHW (kW)	28.8	
Hot water flow rate - 35 °C rise (l/min)	11.8	
Dry weight (kg)	20	
Voltage (V/Hz)	230/50	
Power consumption (W)	85	
Minimum cold water inlet pressure	0.15 bar	
Maximum flue length		
Horizontal (ø100mm)	2.4m	
Vertical (ø100mm)	3.6m	
Twin (ø80mm)	5m/5m + terminal	
Pipe connections		
DHW	15mm	
Cold water	15mm	
Gas	15mm	

CondexaPRO

Light commercial wall hung boiler

- IDEAL FOR LARGE DOMESTIC AND LIGHT COMMERCIAL APPLICATIONS
- SUITABLE FOR LINEAR AND CASCADE INSTALLATIONS
- ★★★★ EFFICIENCY*
- BEST RATING NOX CLASS 5
- HEAT EXCHANGER ★★★★★ EFFICIENCY*
- 2 year warranty



*According to European Directive EEC 92/42

'A' band.

Possibility to combine CondexaPRO boilers in cascade systems up to 400 kW, making them suitable for a wide variety of installations, from large domestic properties, office buildings and sports centres to schools and hotels.

Flexible and space saving cascade installations allow the system to be tailored to meet the space requirements of the customer, who can choose among wall hung, linear free-standing and back-to-back free-standing configurations.

The CondexaPRO range is designed so that all components can be easily serviced and maintained from the front. Each boiler of the cascade can also be individually serviced and maintained, while the other boilers of the cascade are still able to operate, minimising disruption.

Excellent performance combined with low running costs, thanks to Vokèra condensing technology with pre-mix combustion.

Built-in temperature control and external probe as standard to maximise energy efficiency

Stainless steel condensing exchanger on the exhaust side and copper alloy exchanger on the water side, each generator reaches 108.7% as the calorific value produced by natural gas (Hi) is lower; the low temperatures produced by the exhaust gases discharged into the atmosphere allow the use of a built-in 50mm diameter plastic exhaust collector with female fitting which may reach an equivalent height of 30m.

Cylindrical condensing heat-exchanger has a high exchange surface and an excellent corrosion resistance and achieved ★★★★★ efficiency.*

The latest generation electronic control, modularity and versatility, ensures a quick connection to any type of heating and hot water storage systems as it simultaneously controls three different circuits, each operating at different temperatures.

The CondexaPRO units are designed to provide water to 3 different circuits at different temperatures either supplied as direct take off's or via a header system utilising controls as required. The suggested usages are DHW, high temperature (heating) and low temperature (under floor heating).

Flue lengths from 30m. Suitable for use with Vokèra 80mm Twin flue or 50mm, 125mm, 160mm, 200mm, 250mm and 315mm flue systems. See the CondexaPRO Configurations catalogue for more information.

Water drain built-in as standard in the boiler for each heating unit.

High modulation range: The Master models contains a board that can manage 30 slaves in battery or burners up to 3MW of power, with a modulation down to only 16 kW, maximising efficiency and comfort levels.

Anti-legionnaires' disease function (only available with room control kit).

Weekly programmer (only available with room control kit).

Minimum polluting emissions, thanks to the controlled pre-mix burner and the micro-flame burner combination, allowing the CondexaPRO to achieve Class 5 of the UNI EN 677 standard - the best European category in ecological terms.

Siting and installation flexibility of the boiler make it deal for both new build and refurbishment applications.

Pre Sales service available to provide advice and assistance on most suitable system design. (See page 42 for further information.)



OPTIONS

Flueing options include: 80mm twin, 50mm, 125mm, 160mm, 200mm, 250mm and 315mm
Manifold (up to 100 kW)
Manifold (over 100 kW)
Room control kit
2-way isolating valve
Injection pump
Room sealed kit CondexaPRO 50

See CondexaPRO Configurations catalogue for further information

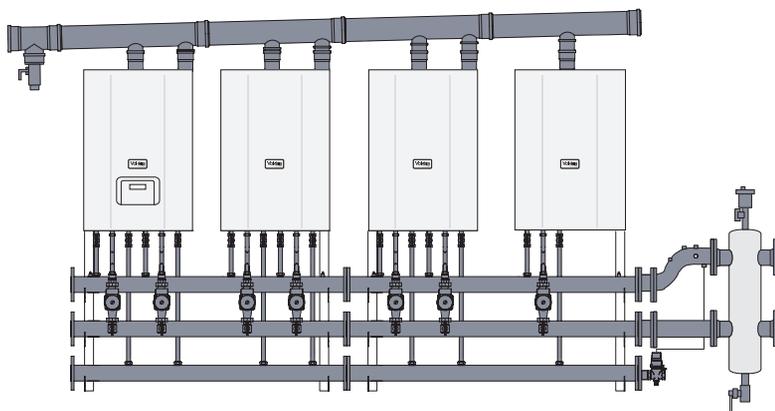
The CondexaPRO range

CondexaPRO 50 M Master model, output from 15 to 50 kW (Hs), consists of one boiler unit and can work both as stand alone and in cascade applications with Slave models.

CondexaPRO 100 M Master model, output from 15 to 100 kW (Hs), consists of two boiler units and can work both as stand alone and in cascade applications with Slave models.

CondexaPRO 100 S Slave model, output from 15 to 100 kW (Hs), consists of two boiler units and can work only in cascade applications managed by a Master model.

The CondexaPRO has been specifically designed for cascade applications. Thanks to its modularity and specific features, it can be considered the best solution for light commercial applications, both in new buildings and as replacement of old floor standing boilers.



An example of a typical CondexaPRO cascade flueing installation.

SPECIFICATIONS	CondexaPRO 50M	CondexaPRO 100M	CondexaPRO 100S
Product order code	20019678	20019311	20019677
Heat output at 80/60°C	44.2 kW	88.3 kW	88.3 kW
Heat output at 50/30°C	48.5 kW	96.8 kW	96.8 kW
Flow rate at 20°C	33.0 l/min	66.7 l/min	66.7 l/min
Waterside pressure drop at 20°C	700 mbar	700 mbar	700 mbar
Maximum water pressure	6.0 bar	6.0 bar	6.0 bar
Minimum water pressure	0.5 bar	0.5 bar	0.5 bar
Maximum water temperature (flow)	80°C	80°C	80°C
Flue connection	1 x 50mm	2 x 50mm	2 x 50mm
Power supply	230v 1PH 50Hz	230v 1PH 50Hz	230v 1PH 50Hz
Start current	0.8A	1.6A	1.6A
Run current	0.74A	1.45A	1.45A
Width	600mm	600mm	600mm
Depth	380mm	380mm	380mm
Height	1000mm	1000mm	1000mm
Dry weight	60kg	90kg	90kg

M=Master Unit S=Slave Unit

INTELLIGENT DESIGN

Vokèra has developed an intelligent frame for the free-standing, cascading or stand alone installations of CondexaPRO.

Suitable for both linea and back-to-back configurations the frame provides a trouble-free installation solution without the need of a wall.



CONTROL PANEL



CONDEXAPRO CONFIGURATIONS CATALOGUE

For a copy of a CondexaPRO configurations catalogue please contact the Vokèra Marketing department.

Email: marketing@vokera.co.uk

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 HE	Unica BHE	Compact A	Mynute HE	Mynute VHE
5 year warranty	✓	✗	✗	✗	✗	✗
Back lit LCD display	✓	✗	✗	✗	✗	✗
History recall information function	✓	✗	✗	✗	✗	✗
Optional timed DHW preheat 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 Protocol control option	✓	✓	✓	✗	✓*	✗
Cyclonic air and particle separator	✓	✓	✓	✓	✓	✗
Built in filling loop	✓	✓	✓	✗	✗	✗
Pre-heated hot water	✓	✓	✓	✗	✗	✗
Pre-fixing jig	✓	✓	✓	✗	✗	✗
Optional pre-fixing kit available	✓	✓	✓	✗	✗	✗
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	✓**	✓	✓	✗	✓*	✗
Compartment ventilation not required	✓	✓	✓	✓	✓	✓
Built in frost protection	✓	✓	✓	✓	✓	✓
LPG model available / conversion kit available	✓	✓	✓	✓	✓	✓
Self start feature	✓	✓	✓	✓	✓	✓
'Anti cycle' heating control	✓	✓	✓	✓	✓	✓
Electrical insulation to IPX5D	✓	✓	✓	✓	✓	✓
Fault diagnostic display	✓	✓	✓	✓	✓	✓
Telescopic flue system	✓	✓	✓	✓	✓	✓
Twin flue system	✓	✓	✓	✓	✓	✓
Vertical flue option	✓	✓	✓	✓	✓	✓
Combustion analysis function	✓	✓	✓	✓	✓	✓
Electronic burner ignition	✓	✓	✓	✓	✓	✓
Pipe space through back of boiler	OPT	OPT	✗	✗	OPT	STD
Domestic heat exchanger: 5yr guarantee against scaling of DHW	✓	✓	✓	✓	N/A	N/A

* Contact Vokèra Technical Helpline for advice.

** Weather compensation control supplied as standard

Flue Options

Vokèra offer 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.

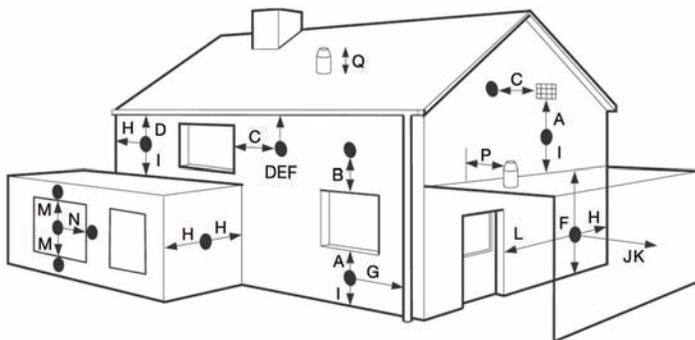
80/125mm CONCENTRIC

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.

TERMINAL POSITIONS



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 plumbing must be considered.

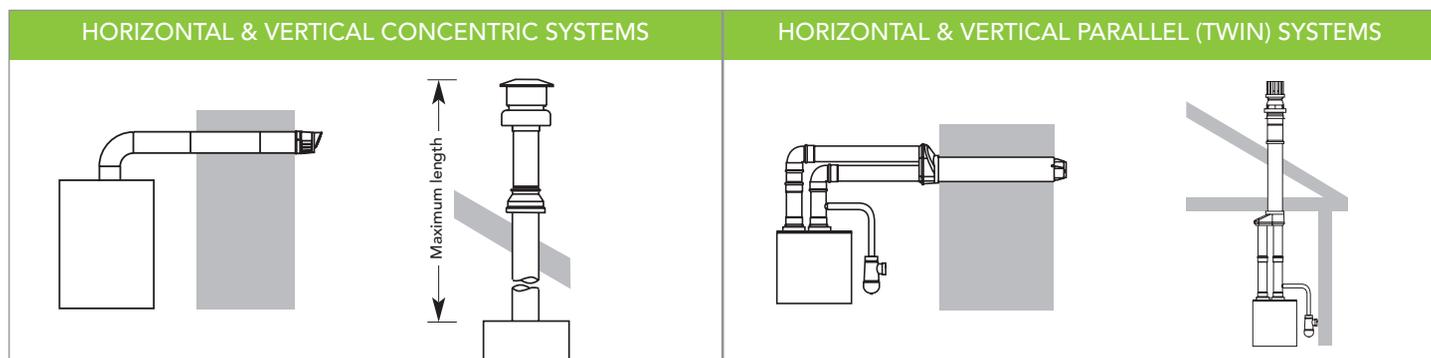
FLUE EXIT CLEARANCES

	Flue Exits	Minimum distance SE & HE Boilers
A	Below an opening (window, airbrick etc)	300mm
B	Above an opening (window, airbrick etc)	300mm
C	To the side of an opening (window, airbrick etc)	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
H	From internal or external corner or boundary	25mm
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

*Minimum clearance ensures boiler works safely, however consideration should be made for nuisance factor.

Please note: measurements for G & H are 60mm when using 80/125mm flue.

Flue Options



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, specifically Linea One, Unica HE, Mynute HE 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 Vokera Technical Helpline.

MAXIMUM FLUE LENGTHS

	Concentric 60/100mm (4")		Concentric 80/125mm (5")		Parallel (twin) 80mm + 80mm	Flexible PP Flue
	Horiz.	Vertical	Horiz.	Vertical	Horiz. / Vertical	Horiz. / Vertical
Linea One	3.85m	4.85m	10.0m	12.0m	30m + 30m	12m + 12m
Unica 28HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Unica 32HE	7.8m	8.8m	20m	25m	35m + 35m	14m + 14m
Unica 36HE	7.8m	8.8m	20m	25m	35m + 35m	14m + 14m
Unica Balcony HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Compact 25 A	4.0m	5.0m	N/A	N/A	20m + 20m	8m + 8m
Compact 29 A	4.0m	5.0m	N/A	N/A	20m + 20m	8m + 8m
Mynute 12HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 15HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 20HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 25HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 30HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 35HE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Mynute 15VHE	7.8m	8.8m	25m	30m	40m + 40m	16m + 16m
Mynute 20VHE	7.8m	8.8m	20m	25m	40m + 40m	16m + 16m
Aquanova	2.4m	3.8m	N/A	N/A	7m + 7m	N/A
Reductions for additional bend/s (reduction for PMK = 4.0 metres)						
45-deg	0.5m	1.0m	1.0m	1.0m	1.0m	N/A
90-deg	1.0m	1.0m	1.0m	1.0m	1.0m	N/A



80MM PARALLEL (TWIN) FLUE SYSTEMS	
Code	
310	Adaptor kit for 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)

The 80mm + 80mm parallel 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.

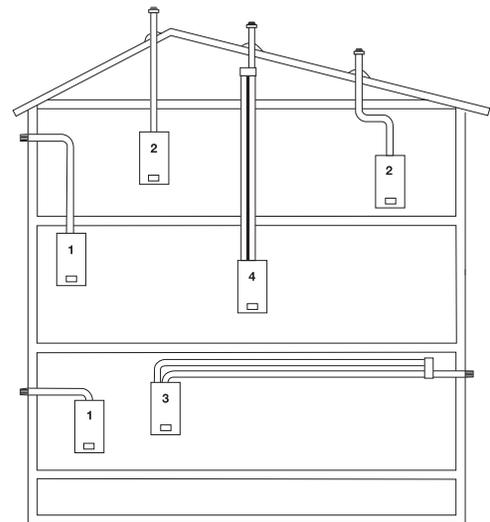
The exhaust pipe can reach very high temperatures and so must be adequately protected to avoid contact with persons and/or materials that could be damaged as a result.

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

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
Also available in 'brick red' and 'beige'
Code: 534 / 535



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

The 60/100 condensing range is suitable for all current Vokèra high efficiency (condensing) appliances.

When used in the horizontal plane, the flue system should be installed so that it has a 1° – minimum – fall back to the boiler (17mm 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

Old Code	Code	Description	Linea One	Unica HE	Unica BHE	Compact A	Mynute HE	Mynute VHE
521	29450121	Telescopic horizontal flue terminal	✓	✓	✓	✓	✓	✓
520	29450120	Horiz flue terminal	✓	✓	✓	✓	✓	✓
-	522	Plume management kit	✓*	✓	✓	✓*	✓	✓
-	29450131	Plume management kit extension	✓*	✓	✓	✓*	✓	✓
523	29450123	90-deg bend	✓	✓	✓	✓	✓	✓
524	29450124	45-deg bend (pair)	✓	✓	✓	✓	✓	✓
525	29450125	500mm extension	✓	✓	✓	✓	✓	✓
526	29450126	1000mm extension	✓	✓	✓	✓	✓	✓
527	29450127	2000mm extension	✓	✓	✓	✓	✓	✓
528	29450128	Telescopic extension	✓	✓	✓	✓	✓	✓
-	529	Wall brackets (5 x 100mm)	✓	✓	✓	✓	✓	✓
530	29450122	Vertical flue terminal	✓	✓	✓	✓	✓	✓
-	531	Pitched roof flashing plate	✓	✓	✓	✓	✓	✓
-	532	Flat roof flashing plate	✓	✓	✓	✓	✓	✓
-	533	Telescopic rear flue	✗	✗	✗	✗	✗	✓**
-	534	Brick red nose cone	✓	✓	✓	✓	✓	✓
-	535	Beige nose cone	✓	✓	✓	✓	✓	✓
-	29450130	White nose cone	✓	✓	✓	✓	✓	✓
-	487	45-deg-plume diverter	✓	✓	✓	✓	✓	✓

*Contact Vokèra Technical Helpline for advice **12kW and 15kW outputs only

The 80/125 range can be utilised only with certain specific appliances.

An adaptor is required to convert the appliance flue outlet from 100mm to 125mm.

When used in the horizontal plane, the flue system should be installed so that it has a 1° – minimum – fall back to the boiler (17mm 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 HE	Unica BHE	Compact A	Mynute HE	Mynute VHE
413	Horizontal terminal	✓	✓	✓	✗	✓	✓
414	Vertical terminal	✓	✓	✓	✗	✓	✓
415	90-deg bend	✓	✓	✓	✗	✓	✓
416	45-deg bend (single)	✓	✓	✓	✗	✓	✓
417*	250mm extension	✓	✓	✓	✗	✓	✓
418	500mm extension	✓	✓	✓	✗	✓	✓
419	1000mm extension	✓	✓	✓	✗	✓	✓
420	2000mm extension	✓	✓	✓	✗	✓	✓
421*	3000mm extension	✓	✓	✓	✗	✓	✓
422*	Telescopic extension	✓	✓	✓	✗	✓	✓
423	Wall brackets (5 x 125mm)	✓	✓	✓	✗	✓	✓
424	Boiler top adaptor for HE appliances	✓	✓	✓	✗	✓	✓
425*	Fixed offset	✓	✓	✓	✗	✓	✓
426	Silicon lubricant	✓	✓	✓	✗	✓	✓
532	Flat roof flashing plate	✓	✓	✓	✗	✓	✓
531	Pitched roof flashing plate	✓	✓	✓	✗	✓	✓

*Available by special order



Energy Saving 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 3% - 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 with combi and system boilers and include basic mechanical clocks, room thermostats, programmable room thermostats and the Vokèra 'Intelligent Control' range that incorporates the most advanced technology available - such as weather compensation and OpenTherm protocol.

Mechanical clocks and digital programmers allow basic control over the heating and/or hot water requirements with the ability to set one time period only.



Mynute HE 7 day digital programmer

Suits all main heating and hot water needs, when the boiler is connected to a water cylinder. It can be programmed to control the heating and hot water timings at different times each day for a 7 day period.

Code: 514



Unica HE 24 hour mechanical clock

Allows control over boiler heating timings with continuous, timed and off modes of operation.

Code: 433

This clock can also be used with Mynute HE where an existing control for the hot water tank is in operation



Compact A 24 hour mechanical clock

Allows control over boiler heating timings with continuous, timed and off modes of operation. Only available as part of pipe cover package.

Code: 20025081

Room thermostats control the central heating temperature. For maximum comfort it is recommended that your thermostat is set between 18 - 21°C



Combined wireless RF room thermostat with 24 hour clock

Allows easy control over boiler heating timings and temperatures over a 24 hour period. This wall mounted, battery operated, digital thermostat control enables versatile siting and ensures end user accessibility.

Code: 20029494

Energy Saving Controls

A **weather compensation control** manages the central heating temperature but independently regulates the boiler in line with external weather conditions so require no regular operation by the homeowner.



Outside weather compensation control - Part of the Vokèra 'Intelligent Control' range

Directly fits to Linea One, Unica HE and Mynute HE and can be connected to selected older appliances*.
Code: 2359239 - This control is supplied as standard with the Linea One combi boiler.

*Compact HE, Linea 7 and Compact SE when using RC05 Programmer.
Contact Vokèra Technical

Programmable room thermostats can have different set temperatures for different times of the day, offering greater flexibility and a simple solution to boiler control. Vokèra's OpenTherm programmable room thermostat incorporates the most advanced technology that modulates the boiler in line with the current and desired set room temperature to provide a consistent temperature and maximises any potential energy savings.



OpenTherm protocol RF programmable room thermostat - Part of the Vokèra 'Intelligent Control' range

This control uses OpenTherm protocol technology to modulate the Vokèra boiler outlet temperature in order to maintain a specified room temperature, maximising boiler efficiency and comfort levels. Functions include 'Holiday Function', 'Optimisation Function' and 'Info Function'. Advanced technology makes the OpenTherm the most energy efficient control available and can save up to 10% of a home's energy consumption reducing fuel usage as well as reducing CO₂ emissions.

Code: 611

CONTROLS COMPATIBILITY

Code	Control	Linea One	Unica HE	Unica BHE	Compact A	Mynute HE	Mynute VHE
611	OpenTherm protocol RF programmable room thermostat	✓*	✓	✓	✗	✓**	✗
2359239	Outside weather compensation control	✓***	✓	✓	✗	✓**	✗
20029494	Combined wireless RF room thermostat with 24 hour clock	✓	✓	✓	✓	✓**	✓**
20025081	Compact A 24 hour mechanical clock (only available as part of pipe cover package)	✗	✗	✗	✓	✗	✗
433	Unica HE 24 hour mechanical clock	✗	✓	✓	✗	✓****	✗
514	Mynute HE 7 day digital programmer	✗	✗	✗	✗	✓	✗

*Requires wiring kit. Code 1221179

**Contact Vokèra Technical Helpline for advice. Controls heating only.

*** Outside weather compensation control is supplied in the box with every Linea One

****Can also be used with Mynute HE where an existing control for the hot water tank is in operation

Renewable Technology

Solar thermal

Solar thermal has become one of the most cost efficient renewable technologies currently available for reducing CO₂ 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 CO₂ 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.

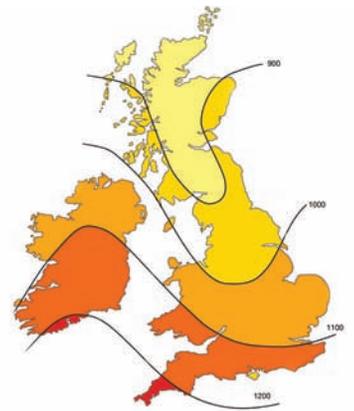


Fig 1 - Source: Solar Trade Association

Fig 1 shows the total average solar radiation falling on one m² measured in kW hours. (UK and Ireland)

Zenith Solar thermal systems

Our high grade 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 HE sealed system boiler
Aquaflow Twin coil cylinder



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

Zenith Evacuated Tube Solar thermal collectors



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 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 wider 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 and up to 6 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 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 most suitable system design.

PRE SALES SUPPORT FOR SOLAR THERMAL

Vokèra Pre Sales support offers practical, sound advice and will advise you if a solution is not fit for purpose, ensuring the correct products are recommended for the application.

Information regarding the Solar installation is input into TSOL simulation software programme that processes the data and the findings are submitted in a detailed bespoke specification report.

The report documents potential annual results including proposed collector power, natural gas savings, system efficiency and a graphical analysis of Solar thermal performance, see Fig. 2 for an example. With this information the most cost effective and efficient solution can be determined.

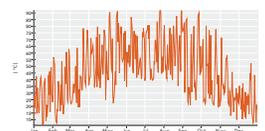


Fig 2. Daily maximum collector temperature graphical analysis

See page 42 for further information on the Pre Sales Support service.



BOILER COMPATIBILITY

Mynute 12HE	Mynute 25HE	Mynute 12VHE
Mynute 30HE	Mynute 15HE	Mynute 15VHE
Mynute 35HE	Mynute 20HE	Mynute 20VHE

OPTIONS

Description	Code
Aquaflow Twin Coil Cylinder 250	924
Aquaflow Twin Coil Cylinder 300	925



Zenith (Pitched) Evacuated Tube Collector Package Includes	Zenith (Flat) Evacuated Tube Collector Package Includes
Zenith Evacuated Tube Solar collectors (x2)	Zenith Evacuated Tube Solar collectors (x2)
Pitched roof kit	Flat roof kit
Premium controller (3 temp)	Premium controller (3 temp)
Pump station (return only)	Pump station (return only)
18L expansion vessel	18L expansion vessel
Flex & support for 18L expansion vessel	Flex & support for 18L expansion vessel
Glycol 20L (Premix)	Glycol 20L (Premix)
Manual air discharge	Manual air discharge
Insulated pipe 25m (DN15)	Insulated pipe 25m (DN15)
Fittings kit	Fittings kit
Package code	Package code
583	584

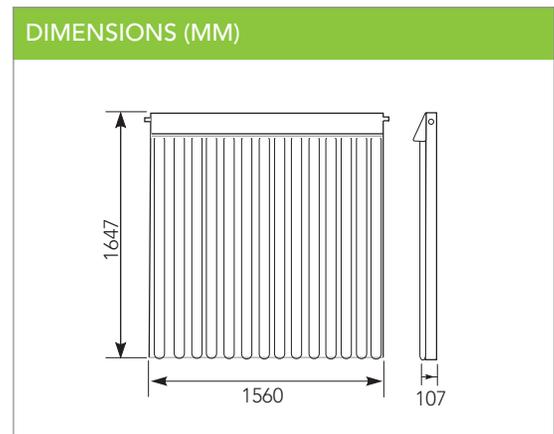
TSOL SIMULATION

Vokèra recommend that a TSOL simulation is carried out prior to all new Solar installations. This ensures the suitability of the Solar equipment and identifies the ideal components.

Vokèra carry out TSOL simulations free of charge, contact the Pre Sales team for further information.

pre-sales@vokera.co.uk

SPECIFICATIONS	Zenith Evacuated Tube Collector
Total area	2.57m ²
Exposed area	2.21m ²
Effective absorption area	2.96m ²
Connections (M - F)	3/4 inch
Empty weight	42 kg
Liquid content	2.90 L
Recommended flow rate per m ² of panel (per hr)	30 L
Absorption (α)	96%
Emissions (β)	6%
Maximum permitted pressure	10 bar
Maximum temperature	270°C



Zenith On Tile

Solar thermal collectors







SOLAR KEYMARK
SEAL OF
APPROVAL



MANUFACTURED
IN HOUSE

IDEAL FOR
RETRO FIT
APPLICATIONS

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

Ideal for retro fit applications with Solar collectors sitting on top of the roof tiles, therefore requiring minimal adaptation to the roof.

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.

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

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 creating a larger surface area for the liquid, therefore increasing the level of absorption.

As a guide 1m² of Solar collector is required per person and up to 6 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 the Sun's energy.

The bottom and walls of the 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.

Solar Keymark seal of approval.

10 year warranty on Zenith On Tile Solar thermal collectors

Pre Sales service available to provide advice and assistance on most suitable system design. (See page 42 for further information.)



BOILER COMPATIBILITY

Mynute 12HE	Mynute 25HE	Mynute 12VHE
Mynute 30HE	Mynute 15HE	Mynute 15VHE
Mynute 35HE	Mynute 20HE	Mynute 20VHE

OPTIONS

Description	Code
Aquaflow Twin Coil Cylinder 250	924
Aquaflow Twin Coil Cylinder 300	925

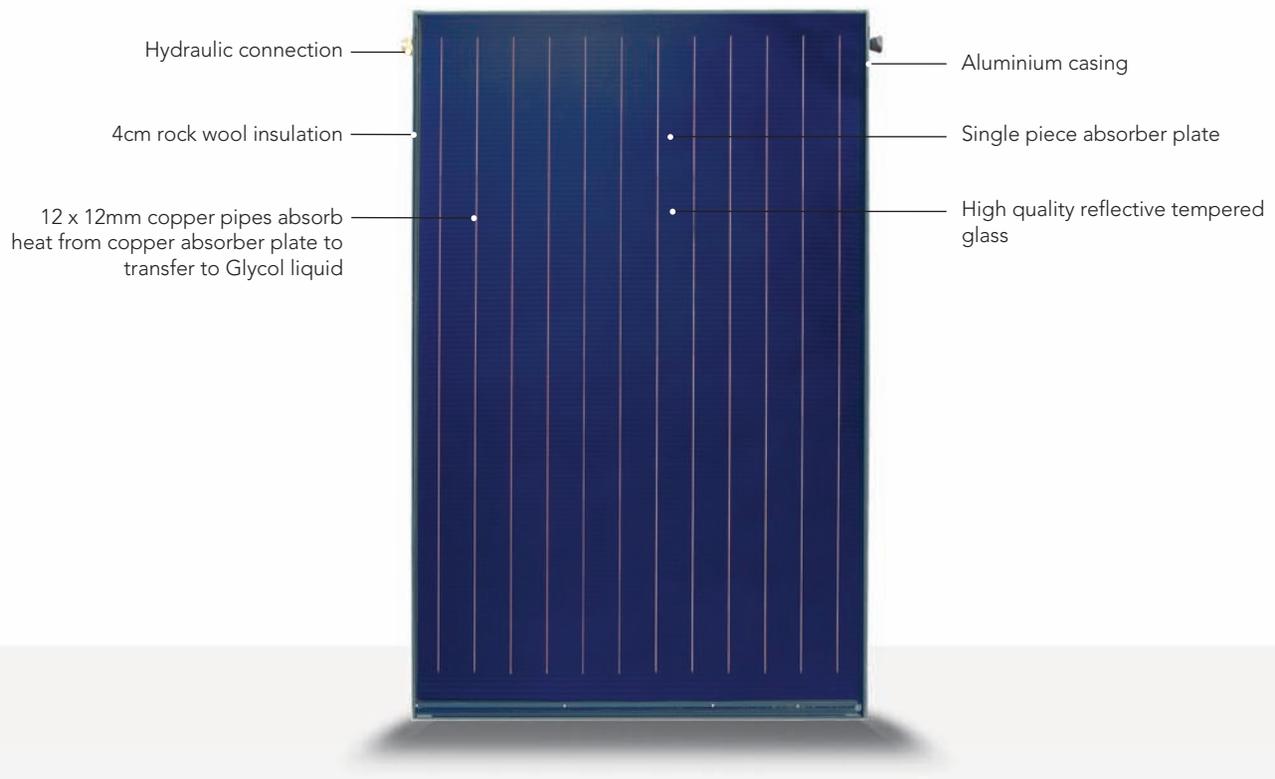
CHOOSING THE RIGHT SOLAR EQUIPMENT

If you are considering taking the step towards Solar thermal it is important to:

Carry out a TSOL simulation prior to the Solar installation. This ensures the suitability of the Solar equipment and identifies the ideal components.

Check that the product has the Solar Keymark seal of approval as this shows that the equipment fulfils the European Standards and ensures a reliable quality system that is backed by reliable performance information.

Check that the manufacturer is a member of the Solar Trade Association as this shows that they are committed to the future of the technology.



Zenith (Pitched) On Tile Collector Package Includes	Zenith (Flat) On Tile Collector Package Includes
Zenith On Tile Solar collectors (x2)	Zenith On Tile Solar collectors (x2)
Pitched roof kit	Flat roof kit
Roof fixing kit for 2 collectors	Roof fixing kit for 2 collectors
Premium controller (3 temp)	Premium controller (3 temp)
Pump station (return only)	Pump station (return only)
18L expansion vessel	18L expansion vessel
Flex & support for 18L expansion vessel	Flex & support for 18L expansion vessel
Glycol 10L (Undiluted)	Glycol 10L (Undiluted)
Manual air discharge	Manual air discharge
Insulated pipe 25m (DN15)	Insulated pipe 25m (DN15)
Fittings kit	Fittings kit
Package code	Package code
580	581

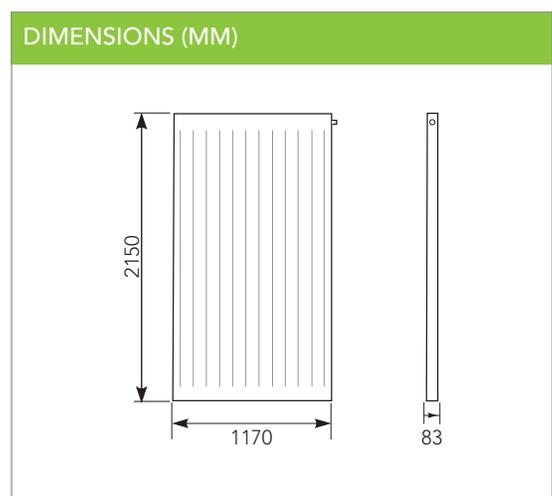
TSOL SIMULATION

Vokèra recommend that a TSOL simulation is carried out prior to all new Solar installations. This ensures the suitability of the Solar equipment and identifies the ideal components.

Vokèra carry out TSOL simulations free of charge, contact the Pre Sales team for further information.

pre-sales@vokera.co.uk

SPECIFICATIONS	Zenith On Tile Collector
Total area	2.51m ²
Exposed area	2.39m ²
Effective absorption area	2.31m ²
Connections (M - F)	1 inch
Empty weight	47 kg
Liquid content	1.65 L
Recommended flow rate per m ² of collector (per hr)	30 L
Glass type	Safety glass with anti-reflective surface
Glass thickness	4 mm
Absorption (α)	95%
Emissions (β)	5%
Maximum permitted pressure	10 bar
Maximum temperature	210°C



Zenith Inset

Solar thermal collectors



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

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

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

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

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.

10 year warranty on Zenith Inset Solar thermal collectors

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

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

Heat transfer fluid flows through 12 individual copper pipes in the collector creating a larger surface area for the liquid, therefore increasing the level of absorption.

As a guide 1m² of Solar collector is required per person and up to 6 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 the Sun's energy.

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

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.

Solar Keymark seal of approval.

PRE SALES SUPPORT FOR SOLAR THERMAL

Vokera Pre Sales support offers practical, sound advice and will advise you if a solution is not fit for purpose, ensuring the correct products are recommended for the application.

Information regarding the Solar installation is input into TSOL simulation software programme that processes the data and the findings are submitted in a detailed bespoke specification report.

The report documents potential annual results including proposed collector power, natural gas savings, system efficiency and a graphical analysis of Solar thermal performance, see Fig. 2 for an example. With this information the most cost effective and efficient solution can be determined.

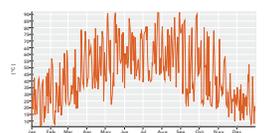


Fig 2. Daily maximum collector temperature graphical analysis

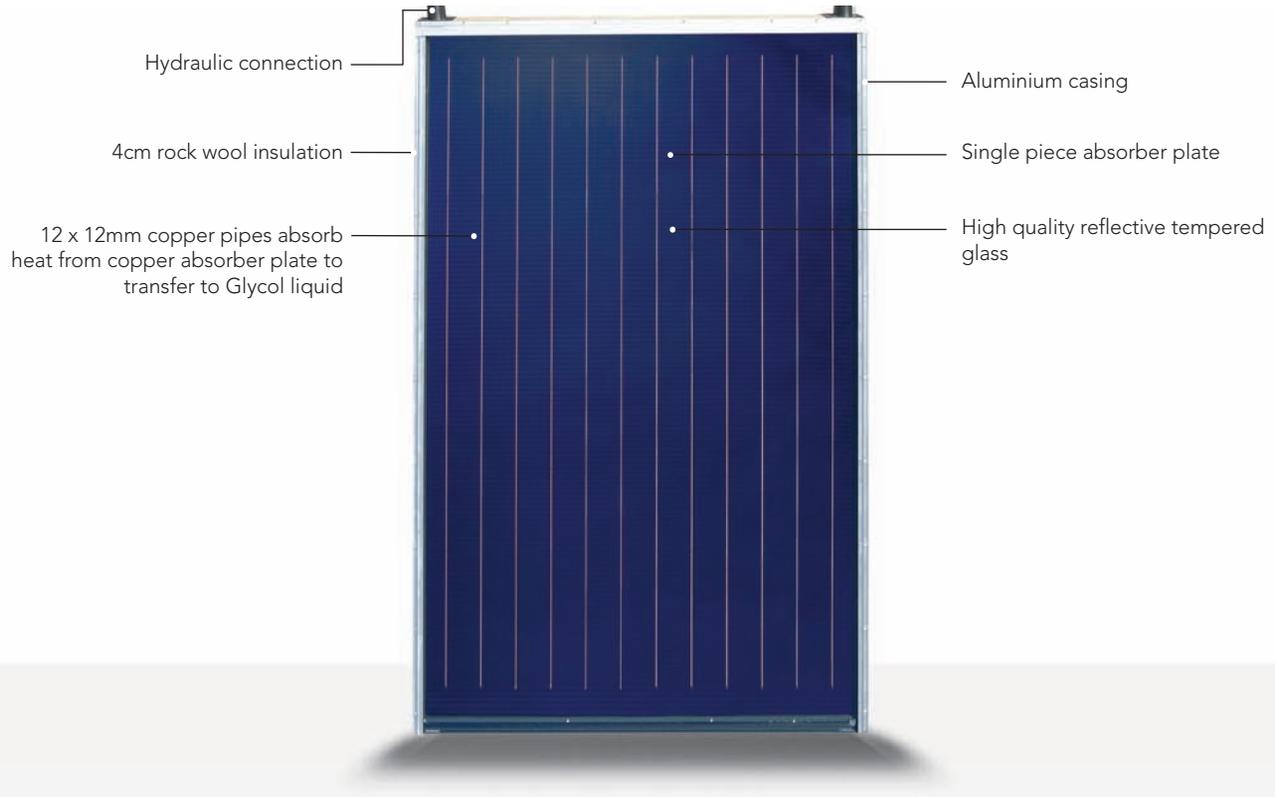
See page 42 for further information on the Pre Sales Support service.

BOILER COMPATIBILITY

Mynute 12HE	Mynute 25HE	Mynute 12VHE
Mynute 30HE	Mynute 15HE	Mynute 15VHE
Mynute 35HE	Mynute 20HE	Mynute 20VHE

OPTIONS

Description	Code
Aquaflow Twin Coil Cylinder 250	924
Aquaflow Twin Coil Cylinder 300	925



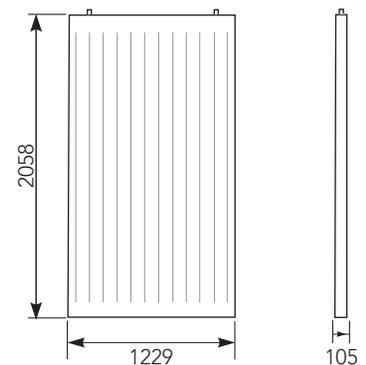
Zenith (Pitched) Inset Collector
Package Includes

- Zenith Inset Solar collectors (x2)
- Roof fixing kit for two collectors
- Flashing kit for two collectors
- Premium controller (3 temp)
- Pump station (return only)
- 18L expansion vessel
- Flex & support for 18L expansion vessel
- Glycol 10L (Undiluted)
- Manual air discharge
- Insulated pipe 25m (DN15)
- Fittings kit

Package code

582

DIMENSIONS (MM)



ZENITH COPPER ABSORBER PLATE



The single - piece copper absorber plate in both Zenith On Tile and Inset flat plate collectors creates a greater reflective surface, maximising energy performance.

SPECIFICATIONS	Zenith Inset Collector
Total area	2.52m ²
Exposed area	2.32m ²
Effective absorption area	2.28m ²
Connections (M - F)	1 inch
Empty weight	54 kg
Liquid content	1.70 L
Recommended flow rate per m ² of collector (per hr)	30 L
Glass type	Safety glass with anti-reflective surface
Glass thickness	4 mm
Absorption (α)	95%
Emissions (β)	5%
Maximum permitted pressure	10 bar
Maximum temperature	230°C

AquaFlow Twin

Unvented twin coil water cylinder



COMPATIBLE WITH
SOLAR THERMAL



2 year
warranty

25 YEAR
GUARANTEE ON
INNER SHELL



Install the AquaFlow Twin with a Zenith Solar thermal system and a system or open vent boiler to benefit from Solar thermal energy.

Inner shell guaranteed for 25 years, made from Super-Molybdenum.

Cylinder manufactured from high grade corrosion resistant stainless steel.

Easy and quick to install.

Internal secondary expansion via self generating air gap means no expansion vessel required, or fully flooded cylinder with an expansion vessel.

Balanced cold water supply point.

Secondary return facility on all units as standard.

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

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

Twin coil units supplied with one two port motorised valve.

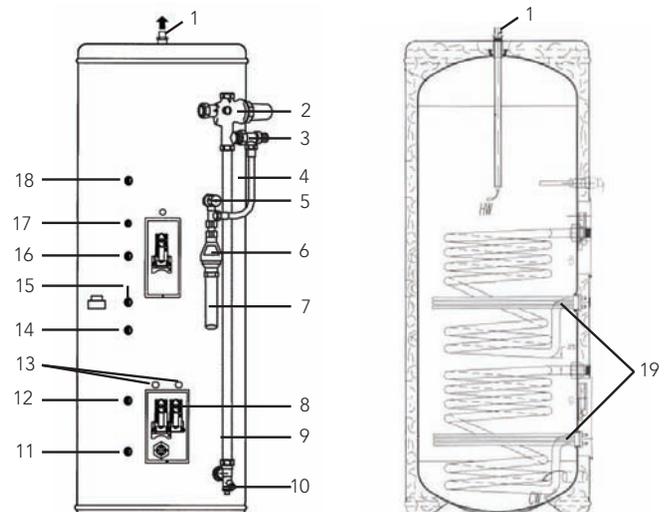
Twin coil units are supplied with one low level immersion heater fitted and hard wired complete with surface mounted thermostat.

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.

SPECIFICATIONS	AquaFlow Twin 250	AquaFlow Twin 300
Product order code	924	925
Unvented capacity	207 litres	239 litres
Approximate weight full	255kg	297kg
Flooded capacity	250 litres	300 litres
Approximate weight fully flooded	312kg	364kg
Height	1400mm	1600mm
Diameter	580mm	580mm

- | | |
|----------------------------|--------------------------|
| 1. Hot water outlet | 11. Flow 3/4 inch |
| 2. Pressure reducing valve | 12. Sensor Boss 1/2 inch |
| 3. Expansion/check valve | 13. Cable entry |
| 4. Flexible connection | 14. Ret 3/4 inch |
| 5. TPR valve | 15. Flow 3/4 inch |
| 6. Tundish | 16. Secret 1/2 inch |
| 7. Discharge pipe | 17. Ret 3/4 inch |
| 8. Cylinder thermostat | 18. Sensor Boss 1/2 inch |
| 9. Cold feed tube | 19. Immersion element |
| 10. Drain cock | |



Zenith Components Matrix

To order a complete Solar system order both the Primary and Secondary components in the tables below.

		PRIMARY COMPONENTS FOR ZENITH SOLAR THERMAL APPLICATIONS							
		Code	Description	1 collector	2 collectors	3 collectors	4 collectors	5 collectors	6 collectors
ON TILE	Pitched	On Tile collector components for pitched roof applications							
		570	On tile collector - single	1	2	3	4	5	6
		1150849	Pitched roof fixing kit	1	1	2	2	3	3
		1150829	On tile collector kit - single	1	-	1	-	1	-
		1150859	On tile collector kit - double	-	1	1	2	2	3
	1150609	On tile jointing kit (3+ collectors)	-	-	1	1	2	2	
	Flat	On Tile collector components for flat roof applications							
		570	On tile collector - single	1	2	3	4	5	6
		1150839	Flat roof fixing kit	1	1	2	2	3	3
		1150829	On tile collector kit - single	1	-	1	-	1	-
1150859		On tile collector kit - double	-	1	1	2	2	3	
1150609	On tile jointing kit (3+ collectors)	-	-	1	1	2	2		
INSET	Inset collector components for pitched roof applications								
	575	Inset collector - single	1	-	1	-	1	-	
	573	Inset collector - double	-	1	1	-	-	1	
	574	Inset collector - four	-	-	-	1	1	1	
	20001441	Roof fixing kit	1	1	1	1	1	1	
	20001442	Flashing kit - single	1	1	1	1	1	1	
	20001443	Roof fixing kit - additional collector	-	1	2	3	4	5	
	20001444	Flashing kit - additional collector	-	1	2	3	4	5	
EVACUATED TUBE	Pitched	Evacuated tube collector components for pitched roof applications							
		569	Evacuated tube collector - single	1	-	1	-	1	-
		571	Evacuated tube collector - double	-	1	1	2	2	3
		1151049	Pitched roof support kit - single	1	-	1	-	1	-
		1151069	Pitched roof support kit - double	-	1	1	2	2	3
	1151079	Evacuated tube jointing kit (3+ collectors)	-	-	1	1	2	2	
	Flat	Evacuated tube collector components for flat roof applications							
		569	Evacuated tube collector - single	1	-	1	-	1	-
		571	Evacuated tube collector - double	-	1	1	2	2	3
		1151039	Flat roof support kit - single	1	-	1	-	1	-
1151059		Flat roof support kit - double	-	1	1	2	2	3	
1151079	Evacuated tube jointing kit (3+ collectors)	-	-	1	1	2	2		

		SECONDARY COMPONENTS FOR ZENITH SOLAR THERMAL APPLICATIONS							
		Code	Description	1 collector	2 collectors	3 collectors	4 collectors	5 collectors	6 collectors
UNIVERSAL COMPONENTS	Evacuated / Inset / On Tile	1150439	Basic controller (2 temp)	1	1*	-	-	-	-
		20009244	Premium controller (3 temp)	-	1*	1	1	1	1
		1150459	Pump station 150L (return only - 1-4 collectors)	1	1	1	1*	-	-
		1150469	Pump station 300L (flow & return - 4+ collectors)	-	-	-	1*	1	1
		1150489	Expansion vessel 18L (1-3 collectors)	1	1	1*	-	-	-
		1150509	Expansion vessel 24L (3-5 collectors)	-	-	1*	1	1*	-
		1150519	Expansion vessel 35L (5-6 collectors)	-	-	-	-	1*	1
		1150499	Flex and support for expansion vessel 18L	1	1	1	1	1	-
		1150629	Manual air vent	1	1	1	1	1	1
		29450101	Insulated flexible pipe DN15 25m (1-4 collectors)	1	1	1*	1*	-	-
		29450102	Insulated flexible pipe DN20 25m (3-6 collectors)	-	-	1*	1*	1	1
		597	Hydraulic connections x12 (DN15 1 - 4 collectors)	1	1	1*	1*	-	-
		598	Hydraulic connections x12 (DN20 3 - 6 collectors)	-	-	1*	1*	1	1
		1150549	Pure Glycol 5L (On tile and inset collectors only)	1*	1*	1*	1*	1*	1*
		1150559	Pure Glycol 10L (On tile and inset collectors only)	1*	1*	1*	1*	1*	1*
		1151029	Premix Glycol 20L (Evacuated tube collectors only)	1*	1*	1*	1*	1*	1*

*Where this symbol appears you have a choice of component that will depend upon the system requirements.

**Vokèra advise that all installations should be carried out by persons having completed a full scope Solar course to ensure correct system sizing. For more details of this qualification contact our training department on 0844 391 0999, option 5.

Zenith Parts Listing

ZENITH SOLAR THERMAL PARTS LISTING	
Code	Description
570	On tile collector - x 1
569	Evacuated tube collector - x 1 (14 tubes)
571	Evacuated tube collector - x 2 (28 tubes)
575	Inset collector - x 1
573	Inset collector - x 2
574	Inset collector - x 4
1150459	Pump station 150L (return only)
1150469	Pump station 300L (flow & return)
1150439	Standard controller (2 temp)
20009244	Premium controller (3 temp)
29450101	Insulated flexible pipe DN15 (25m for 1-4 collectors)
29450102	Insulated flexible pipe DN20 (25m for 3-6 collectors)
1150489	Expansion vessel 18L (1-3 collectors)
1150509	Expansion vessel 24L (3-5 collectors)
1150519	Expansion vessel 35L (5-6 collectors)
1150499	Flex and support for expansion vessel 18L
1150629	Manual air vent
597	DN15 Hydraulic connections for collectors inclusive (12 for flat plate and evacuated tube collectors)
29450103*	DN15F x F22mm Panel and air vent connection - x 1 (In 597 you get 4 of these connections)
29450108*	DN15F x 1" M pump station connection - x 1 (In 597 you get 2 of these connections)
29450104*	DN15F x 3/4" cylinder connection - x 1 (In 597 you get 2 of these connections)
1150539*	DN15 3/4" M&F Inset/On Tile connection x 1 (In 597 you get 2 of these connections)
1151019*	DN15 1" M&F Evacuated Tube connection x 1 (In 597 you get 2 of these connections)
1150549	Pure Glycol 5L (On tile and Inset collectors only)
1150559	Pure Glycol 10L (On tile and Inset collectors only)
1151029	Premix Glycol 20L (Evacuated tube collectors only)
578	DN15 Couplings kit (6 connections for connecting lengths of DN15 flexible pipe)
579	DN20 Couplings kit (6 connections for connecting lengths of DN20 flexible pipe)
20001454	Solar system filling and pump trolley
Roof kits for On tile collectors	
1150829	Roof fixing kit - x 1
1150859	Roof fixing kit - x 2
1150849	Pitched roof kit - x 1/x 2
1150839	Flat roof kit - x 1/x 2
1150609	Jointing kit for 3+ On tile collectors
Roof kits for Evacuated tube collectors	
1151039	Flat roof support kit - x 1
1151059	Flat roof support kit - x 2
1151049	Pitched roof support kit - x 1
1151069	Pitched roof support kit - x 2
1151079	Jointing kit for 3+ Evacuated tube collectors
Roof kits for Inset collectors	
20001441	Roof fixing kit
20001443	Roof fixing kit - additional collector
20001442	Flashing kit
20001444	Flashing kit - additional collector

*Items with this symbol make up part number 597, the inclusive connections for any Zenith System



Renewable Technology

Air source heat pumps

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

Air source heat pumps work by extracting warmth 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.

Aria air source heat pumps

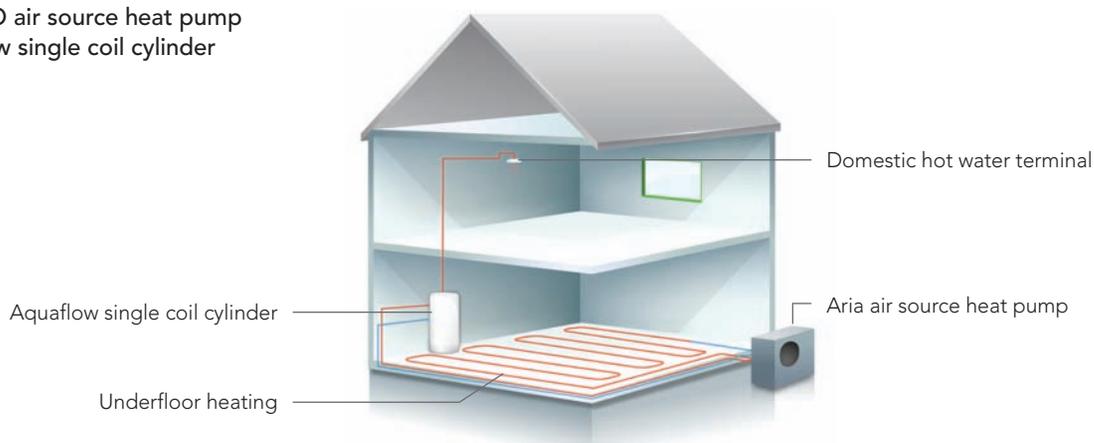
The Vokèra Aria requires only a single-phase electrical supply, and depending on the ambient outside temperature – can reach a CoP (Co-efficient of Performance) of up to 3.9, i.e. 1.05kW of electrical energy to provide 4.0kW of heat output or £1 of electricity can provide £4 of heat. The appliance can be effective in temperatures ranging from -15°C to +25°C.

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

Design and Installation: Aria 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 Aria air source heat pump can be teamed with Vokèra cylinders to further reduce reliance on fossil fuels and maximise the benefits of renewable energy.

Aria PRO air source heat pump
Aquaflow single coil cylinder



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

Aria

Air to water heat pump



FULLY
INTEGRATED
FOR EASY
INSTALLATION

IDEAL FOR
UNDERFLOOR
HEATING



Extracts warmth from ambient air, even when outside temperature is below 0°C. The extracted warmth 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 3.9 i.e. 1.0kW of electrical energy required to generate 3.9kW of heat output (£1 of electricity can provide £4 of heat).

Fully integrated with most hydraulic components built in as standard, including circulating pump, expansion vessel, safety valve, pressure gauge, buffer tank, back-up heater and air vent, enabling a much simpler and quicker installation.

Multiple frost protection circuits protect the appliance during periods of cold weather and eliminates the possibility of compressor malfunction.

Can be used for central heating and domestic hot water when connected to a water cylinder.

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

Compatible with all Vokera boilers, which can make up any differential in heat requirement, maximising end user comfort.

Boost function, when programmed, enables the back up heater to provide a quick start up response, reducing the heat-up time considerably.

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

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

Effective in outside air temperatures ranging from -15°C to +25°C.

Flow temperature +35°C to +50°C, making the air source heat pump ideal for underfloor heating.

First start up 'automatic adjustment' sets the appliance, for simple installation.

Built in 3kW immersion for 6.8kW and 8.3 kW outputs and 6kW immersion for 11.0kW output.

Electronically controlled variable speed helical fans that ensure silent high performance.

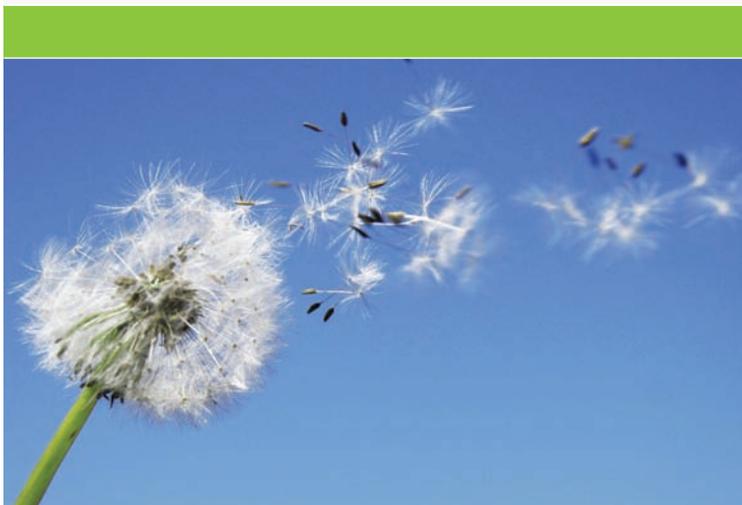
Low Noise 58db.

CFC Free Process.

Single phase for simple installation.

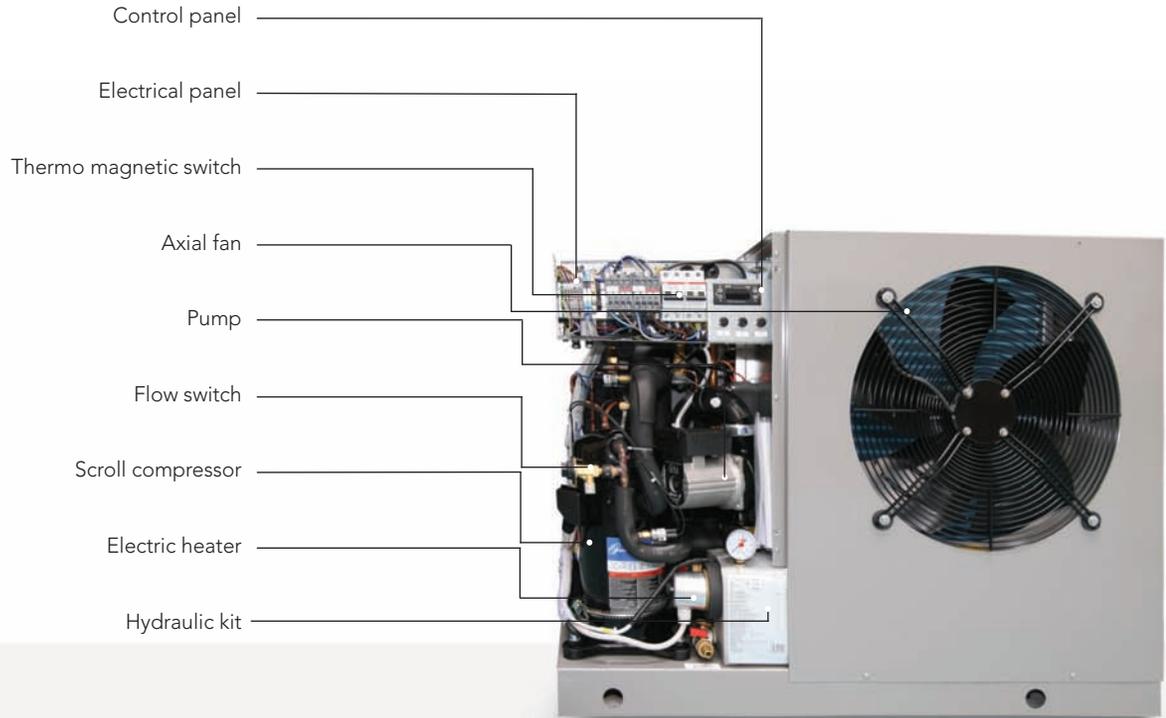
Integral heat exchanger compressor for simple installation.

Pre Sales service available to provide advice and assistance on most suitable system design. (See page 42 for further information.)



ENERGY SAVING CONTROLS AND OPTIONS

Description	Code
Remote control	4014762
Soft start kit	4014766
Hot water thermostat kit	4014767
Anti vibration support kit	4015360



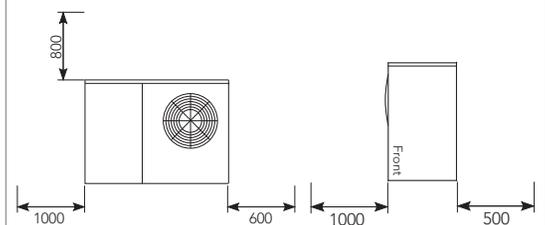
SPECIFICATIONS	Aria 6.8	Aria 8.3	Aria 11.0
Product order code	29450140	29450141	29450142
Co-efficient of Performance (1)*			
Thermal power (kW)	6.8	8.3	11
Input (kW)	1.74	2.11	2.81
CoP 0/35°C	3.9	3.9	3.9
Co-efficient of Performance (2)*			
Thermal power (kW)	6.6	8.1	10.6
Input (kW)	2.14	2.68	3.5
CoP 0/45°C	3	3	3
Dimensions			
Nominal water flow (m³/h)	1	1.2	1.6
Nominal air flow (m³/h)	3.3	3.25	6.5
Noise level** (db)	58	58	62.8
Tank capacity (L)	16	16	36
Weight (kg)	110	112	164
Number of fans	1	1	2
Connections			
Inlet	3/4 inch	3/4 inch	1 inch
Reintegration	1/2 inch	1/2 inch	1/2 inch
Flow & return	BSP	BSP	BSP
Electrical			
Voltage (V/Hz)	230/50	230/50	230/50

*CoP (1) - outside air +7°C / water 30-35°C.

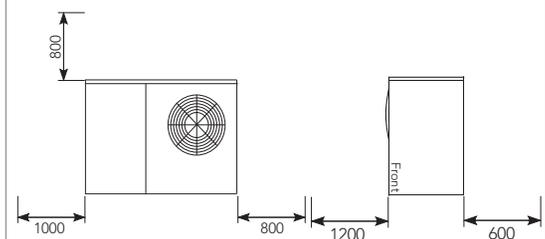
*CoP (2) - outside air +7°C / water 40-45°C.

**Noise level measured in free area at 1.5m from fan and 1.5m from ground

CLEARANCES (MM) - ARIA 6.8/8.3



CLEARANCES (MM) - ARIA 11.0



Vokèra Support

Vokèra prides itself in providing support from concept to completion

Our support network incorporates a Pre Sales support advice service, technical training, technical support service and a Customer Care team dedicated on providing great service.

Pre Sales support

The Vokèra Pre Sales support team offers advice on a range of products and applications to engineers, architects, specifiers and developers. The technology available to heat buildings is changing rapidly therefore support is critical to ensure correct solutions are provided for the application. Pre Sales support ensures you get the correct guidance and reassurance when choosing a solution for your project.

PRE SALES CONDEXAPRO PROJECT



CONTACT PRE SALES

Telephone:	0141 945 6805
Email:	pre-sales@vokera.co.uk

*A cost may be incurred for some Pre Sales activities.

Depending on the technology used and the complexity of the installation, the advice and level of support you need will differ, from basic advice to a full bespoke solution. The Pre Sales support team not only offer advice and guidance but can also provide on-site assistance and support with product assembly and commissioning*.

Vokèra Pre Sales support offers you practical, sound advice and will advise you if a solution is not fit for purpose, ensuring the correct products are recommended for the application.

'It was the specification support, reliability, guarantees and back up service offered by Vokèra that made it the perfect solution.'

Project Manager - Pre Sales Customer

The Pre Sales support service is available for all renewable technology installations, domestic and light commercial condensing gas appliances and any integrated technology heating solution.

Approved Installer Programme

The Vokèra Approved Installer Programme offers a complete partnership package that delivers even more information, support and rewards. In order to be eligible for the programme you only need to purchase 25 or more Vokèra boilers a year*.

Other benefits include:

Your company information listed on the Vokèra website to generate leads.

Access to enhanced affinity rewards**, including work wear and tools in addition to 100's of rewards on the affinity reward site.

Access to Marketing support to help promote your business.

Heavily discounted or free** technical product training.

Special 'Approved Installer' van livery to distinguish you from your competitors.

Access to extended warranties.

Technical support on aged boilers refunded in affinity points**.

Affinity points for every boiler you purchase.

Approved Installers are able to receive a number of benefits including Marketing support, 'Approved Installer' van livery, free training**, a company listing on the Vokèra website with all end user leads received or generated by Vokèra sent to you.

With the Approved Installer Programme, Vokèra are offering you the opportunity to ensure that you and your business are receiving an unrivalled level of service and support.

*Further scheme requirements apply.
**Terms and conditions apply.

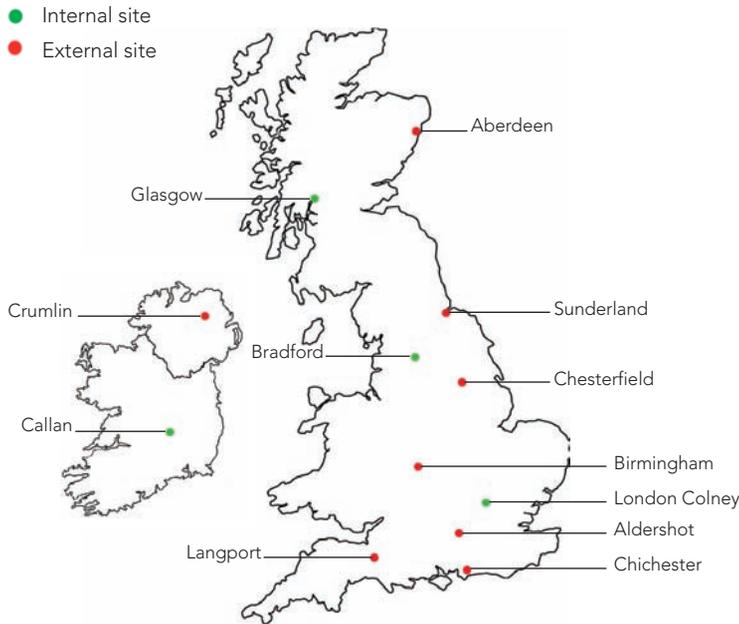
FOR MORE INFORMATION

Telephone:	0844 391 0999 (option 1)
Email:	marketing@vokera.co.uk

Vokèra Support

Technical training

Vokèra offer training nationwide, we have 4 Vokèra training centres and 9 satellite centres:



Vokèra technical training delivers real value to Gas Safe™ Registered engineers. Our technical training focuses on the need of the engineer to become familiar with the product, 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.

Vokèra Product Courses

- High Efficiency Product Course
- ***NEW*** Fault Finding Product Course
- ***NEW*** Renewables Overview Product Course
- Tailored Workshops
- Individual Courses

To attend you must be Gas Safe™ Registered.

Certificated Courses

As well as product courses we offer a range of certificated courses, including:

- Energy Efficiency Certificate 1 Day
- G3 Domestic hot water Certificate 1 Day
- Full Scope Solar thermal course 2 Days
- Air source heat pump course 2 Days



All certificated courses are accredited by LOGIC Certification.



Please note that to attend the Accredited Solar Thermal Domestic Hot Water Course you should:

- Hold a G3 certificate in Unvented Hot Water Systems. If you do not have this it can be added to the Solar course
- Hold one ODPM recognised competency in a conventional fuel i.e gas, oil or solid fuel. Or for those in the plumbing field an NVQ Level 2 or equivalent plumbing qualification.

*The Solar Thermal Domestic Hot Water course and the Unvented Hot Water Systems are currently only running at the Bradford and London Colney Training Centres.

CONTACT TRAINING

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



Rock solid support you can depend on

Customer Care

Customer care team

We pride ourselves on providing a first class after sales service with 4 dedicated regional customer care centres in UK and Ireland, supported with 41 factory trained Vokèra field engineers along with 85 service agents, which are able to support customers nationwide.

—
Every engineer carries a full complement of spare parts

—
Real time data field reports for service contracts

—
Full monthly reports on all activities to the Installer or Contractor highlighting all product and installation faults

—
One point of contact to report and discuss service issues

—
Full audit trail to track service calls

Technical Support

Our fully trained, Gas Safe™ registered technical team provides pre-sales technical advice to help select the correct boiler, through to post sales technical help to support the Installer.

Two Year Warranty

As with all domestic gas boilers, an annual service is recommended to maintain optimum performance, efficiency and safety. In addition to a free 5 year warranty with the Linea One range and a free 2 year warranty offered on all other Vokèra boilers, 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 respond to every call within 48 hours or less, or at a time agreed with the householder. 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.



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 Hot Water and Industry Council

Members of Society of British Gas Industries

Registered Gas Safe™ with our technical support team and trainers all being Gas Safe™ registered

Every product is pre-tested at the factory resulting in an industry leading 99% reliability rate*

Vokèra Linea One boiler is backed by a FREE five year warranty

Vokèra boilers are backed by a FREE two year warranty

Vokèra Solar flat plate collectors are backed by a FREE ten year warranty

Vokèra Solar evacuated tube collectors and air source heat pumps are all backed by a FREE two year warranty

*Our reliability rate is calculated at monthly intervals, and is derived from those appliances that are within the initial 2-year warranty period and have subsequently required a warranty intervention



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.

Contact us

CONTACT US

Department	Email	Telephone	Fax
UK Sales	sales@vokera.co.uk	0844 391 0999 (option 1)	0844 391 0998
UK General Enquiries	enquiries@vokera.co.uk	0844 391 0999 (option 1)	0844 391 0998
Eire Sales / General Enquiries	enquiries@vokera.co.uk	056 7755057	056 7755060
Spares Team	spares@vokera.co.uk	0844 391 0999 (option 3)	0844 391 0998
Customer Relations	custrelations@vokera.co.uk	0844 391 0999 (option 1)	0844 391 0998
Customer Care Team	service@vokera.co.uk	0844 391 0999 (option 2)	0844 391 0998
Technical Support	technical@vokera.co.uk	0844 391 0999 (option 4)	0844 391 0998
Pre Sales	pre-sales@vokera.co.uk	0844 391 099 (option 4)	0844 391 0998
Technical Training	training@vokera.co.uk	0844 391 0999 (option 5)	0844 391 0998
Marketing Support	marketing@vokera.co.uk	0844 391 0999 (option 1)	0844 391 0998



Registered address:

Vokera Ltd
Borderlake House
Unit 7 Riverside Industrial Estate
London Colney
Herts AL2 1HG

enquiries@vokera.co.uk

www.vokera.co.uk
www.vokera.ie

Sales, General Enquiries:

T 0844 391 0999

F 0844 391 0998

Vokera Ireland
West Court, Callan
Co Kilkenny
T 056 7755055
F 056 7755060

Vokera Limited reserve the right to change
specification without prior notice.
Consumers statutory rights are not affected.
E&OE

A Riello Group Company.
Company Reg No: 1047779