Vokèra
BY **RIELLO**

Product
Guide

EDITION 3.0

Vokèra by Riello
Product range at a glance

COMBI BOILERS
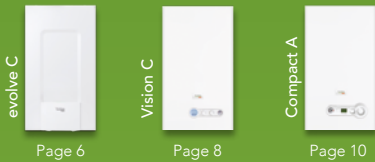
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Contents

Domestic heating solutions

Quality and reliability

More than 1.5 million Vokèra boilers have been installed around the UK and Ireland demonstrating our wealth of experience in home heating. Vokèra has one of the highest boiler reliability statistics in the market, which is coupled with a 30 year unblemished record of product quality. At every stage, from research and development through to production and after sales support, we build quality in as standard.

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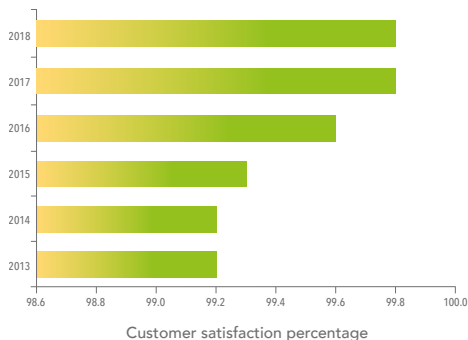
Vokèra base the monthly reliability factor on the number of products at risk, measured against the quantity of bona-fide warranty interventions carried out during the same period

Service and support

Vokèra employed engineers and approved agent network support every installation, giving you peace of mind that should you need us, we are there. Our engineers boast a 95% first fix rate, ensuring a rapid resolution should any Vokèra appliance develop a fault during the warranty period.

Reliability percentage
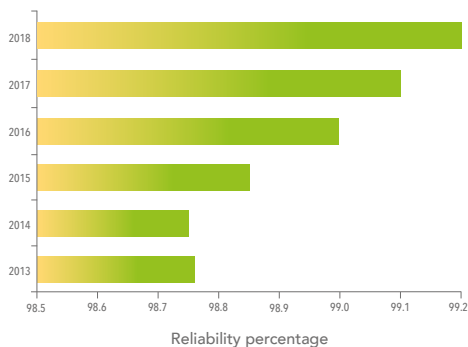
Vokèra by Riello technology

Radial heat exchanger

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

The innovative heat exchanger, found in our evolve range, is a single piece component manufactured from superior quality aluminium alloy that has been specifically chosen for its excellent corrosion resistant properties and high thermal transfer rate. The radial design and large cross-sectional area eliminate the risk of scaling or superheated areas.

Active Combustion Control (ACC) and Carbon Monoxide (CO) monitor

The **evolve** range features ACC (Active Combustion Control), which uses the burner electrode ionisation current to change the air/gas mixture of the **evolve**. The quality of the gas affects the ionisation signal and by adjusting the air/gas mix in order to maintain a specific ionisation value; the **evolve** will use less gas when the quality is good. Thus optimising gas consumption and reducing emissions for the same performance.

Safety is an important consideration with any gas appliance, so the **evolve** takes this a step further and features an excess CO monitor. In the unlikely event of excess CO being detected the **evolve** will shut down and not run until the issue has been resolved.

Intelligent controls

Vokèra boilers boast some of the best use of technology, including OpenTherm, that help maximise efficiency. We are committed to making our controls as straight forward as possible including a Tyco connection on a variety of our control receivers*, ensuring our controls are extremely simple to install with our boilers.

BeSMART

BeSMART offers Internet connected control and multi-zone efficiency.

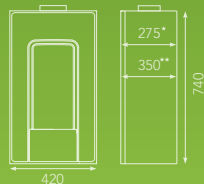We also offer online tutorials and a controls course to enable you to make the most of our energy saving controls.

*Specific boiler and control compatibility applies. Please see page 24 for more information on Vokèra intelligent controls.

evolve C

High efficiency combi boiler

Dimensions (mm)

275*
350**
740
420

* Depth for models 24C & 28C
**Depth for models 32C, 36C & 42C

SPECIFICATIONS	24C	28C	32C	36C	42C
PRODUCT ORDER CODE	20119408	20119409	20131015	20131016	20131017
CENTRAL HEATING					
HEAT INPUT (kW)	18	24	30	32	35
MAXIMUM HEAT OUTPUT @ 80/60°C (kW)	17.6	23.5	29.4	31.4	34.3
MAXIMUM HEAT OUTPUT @ 50/30°C (kW)	19.2	25.6	31.8	34.1	37.2
DOMESTIC HOT WATER					
HEAT INPUT (kW)	26	30	34.6	36.0	42
FLOW RATE – 35°C RISE (L/MIN)	10.7	12.3	14.2	14.7	17.2
WEIGHT					
DRY WEIGHT (KG)	35	36	38	39	39
EFFICIENCY					
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/94				
ErP WATER HEATING EFFICIENCY (CLASS/% (PROFILE))	A/87 (XL)	A/87 (XL)	A/85 (XXL)	A/86 (XXL)	A/85 (XXL)

ACCESSORIES	
DESCRIPTION	CODE
STANDARD BESMART WI-FI KIT	20111860
REC 10H CONTROLLER (HYBRID USE)	20134449
REC 10H WALL MOUNTING KIT	20134478
711 OPENTHERM RF PROGRAMMABLE ROOM STAT	20050690
7 DAY RF PROGRAMMABLE ROOM THERMOSTAT	20101743
SPACING FRAME	20139516
EXTERNAL BOX (TO ENCLOSE APPLIANCE FOR EXTERNAL MOUNTING)	1103289
PRE-HEAT BLENDING VALVE KIT	20035644
FROST PROTECTION KIT	20134475
EXTERNAL CONNECTIONS KIT	20134477
OUTSIDE WEATHER COMPENSATION SENSOR	2359259
MAGNETIC FILTER	29450199
FUELSAVER [4]	29450000
CONDENSATE PUMP	404

NB: For every 45° and 90° bend deduct 1m from flue length

FLUE LENGTHS	24C	28C	32C	36C	42C
FLUE DETAILS (CONCENTRIC)					
MAX HORIZONTAL FLUE LENGTH 60/100MM	10M		8M	6M	5M
MAX VERTICAL FLUE LENGTH 60/100MM	11M		9M	7M	6M
MAX HORIZONTAL FLUE LENGTH 80/125MM	25M		20M	15M	12M
MAX VERTICAL FLUE LENGTH 80/125MM	25M		20M	15M	12M

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)		
COMPONENT	DESCRIPTION	CODE
	TELESCOPIC REAR FLUE 320MM – 825MM [3]	20132064
	TELESCOPIC HORIZONTAL FLUE TERMINAL (XT) 400MM – 575MM [4]	20122761
	HORIZONTAL FLUE TERMINAL (XF)	20122759
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL (XV)	20122763
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

(1) Subject to registration and annual service. (2) Cupboard fit applies to 24C & 28C. (3) Telescopic rear flue terminal has a minimum length of 600mm but can be cut to 320mm. (4) Consider depth of boiler model.

94% ErP — Space Heating Efficiency
10 — 10 Year Warranty
OpenTherm Inside
Space Heating With BeSMART
Reduced Emissions ACC Inside
Easy Installation Includes Time Clock
TEXT — Text Driven Menu

Built-in CO Monitor
Cupboard Fit [2]
NG/LPG — Compatible Out Of The Box
Rear Flue
Condenses in DHW Mode
77% — SAP 2009 Hot Water Efficiency
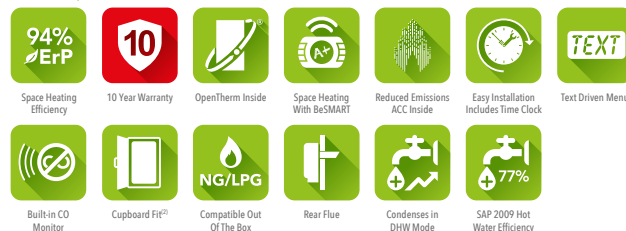
Vision C

High efficiency combi boiler

Dimensions and Clearances (mm)

248
405
715
150
600
12   150   12

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

FLUE LENGTHS	VISION 25C	VISION 30C
FLUE DETAILS (CONCENTRIC)		
MAX HORIZONTAL FLUE LENGTH (60/100MM)	5.85M	4.85M
MAX VERTICAL FLUE LENGTH (60/100MM)	6.85M	5.85M
MAX HORIZONTAL FLUE LENGTH (80/125MM)	15.3M	12.8M
MAX VERTICAL FLUE LENGTH (80/125MM)	20.3M	17.8M
FLUE DETAILS (TWIN PIPES)		
MAX HORIZONTAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M
MAX VERTICAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M

SPECIFICATIONS	VISION 25C	VISION 30C
PRODUCT ORDER CODE	20097278	20099224
CENTRAL HEATING		
HEAT INPUT (kW)	20	25
HEAT OUTPUT @ 80/60°C (kW)	19.5	24.5
HEAT OUTPUT @ 50/30°C (kW)	20.8	26.2
DOMESTIC HOT WATER		
MAXIMUM HEAT INPUT (kW)	25	29
FLOW RATE – 35°C RISE (L/MIN)	10.2	12
WEIGHT		
DRY WEIGHT (KG)	29	29
EFFICIENCY		
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/93	A/93
ErP WATER HEATING EFFICIENCY (XL PROFILE) (CLASS/%)	A/85	A/84

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)		
COMPONENT	DESCRIPTION	CODE
	TELESCOPIC REAR FLUE 320MM - 825MM[2]	20132064
	TELESCOPIC HORIZONTAL FLUE TERMINAL 400MM - 575MM[3]	20131981
	HORIZONTAL FLUE TERMINAL	20132063
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL	20131983
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

ACCESSORIES

DESCRIPTION	CODE
STANDARD BeSMART WI-FI KIT	20111860
SPACING FRAME	20030704
MAGNETIC FILTER	29450199
FUELSAVER	29450000
CONDENSATE PUMP	404
PIPE COVER	20012594
VISION 25C / 30C LPG CONVERSION KIT	20082917 / 20113110

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

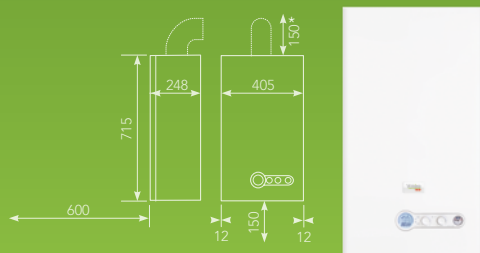*(1) Subject to registration and annual service, terms and conditions apply. (2) Telescopic rear flue terminal has a minimum length of 600mm but can be cut to 320mm. (3) Consider depth of boiler model.*

ErP Compliant

7 Year Warranty[1]

OpenTherm Inside

Lightweight & Compact

Rear Flue

Endorsed Product

BeSMART Compatible

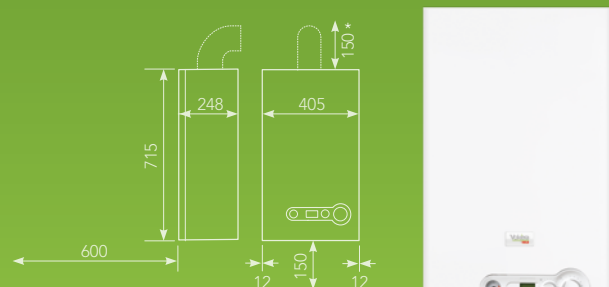
Built-in Time Clock

Fuelsaver Compatible

Built-in Filling Loop

Compact A

High efficiency combi boiler

Dimensions and Clearances (mm)

248
405
715
150 *
600
12
150
12

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

SPECIFICATIONS	25A	29A	25A DIN	29A DIN
PRODUCT ORDER CODE	20099226	20099227	20162844	20099233
CENTRAL HEATING				
HEAT INPUT (kW)	20	25	20	25
HEAT OUTPUT @ 80/60°C (kW)	19.5	24.5	19.5	24.5
HEAT OUTPUT @ 50/30°C (kW)	20.8	26.2	20.8	26.2
DOMESTIC HOT WATER				
MAXIMUM HEAT INPUT (kW)	25	29	25	29
FLOW RATE – 35°C RISE (L/MIN)	10.2	11.9	10.2	11.8
WEIGHT				
DRY WEIGHT (KG)	26	27	26	27
EFFICIENCY				
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/93	A/93	A/93	A/93
ErP WATER HEATING EFFICIENCY (XL PROFILE) (CLASS/%)	A/85	A/84	A/85	A/84

ACCESSORIES	
DESCRIPTION	CODE
STANDARD BeSMART WI-FI KIT	20111860
COMPACT A 24 HOUR ANALOGUE CLOCK KIT	20025085
SPACING FRAME	20030704
MAGNETIC FILTER	29450199
FUELSAVER	29450000
CONDENSATE PUMP	404
PIPE COVER	20012594
COMPACT 25A / 29A LPG CONVERSION KIT	20082917 / 20113110

ErP
ErP Compliant

5
5 Year Warranty[1]

OpenTherm Inside

Kg
Lightweight & Compact

Cupboard Fit

FLUE LENGTHS	COMPACT 25A	COMPACT 29A
FLUE DETAILS (CONCENTRIC)		
MAX HORIZONTAL FLUE LENGTH (60/100MM)	5.85M	4.85M
MAX VERTICAL FLUE LENGTH (60/100MM)	6.85M	5.85M
MAX HORIZONTAL FLUE LENGTH (80/125MM)	15.3M	12.8M
MAX VERTICAL FLUE LENGTH (80/125MM)	16.3M	13.8M
FLUE DETAILS (TWIN PIPES)		
MAX HORIZONTAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M
MAX VERTICAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)		
COMPONENT	DESCRIPTION	CODE
	TELESCOPIC REAR FLUE 320MM – 825MM[2]	20132064
	TELESCOPIC HORIZONTAL FLUE TERMINAL (XT) 400MM – 575MM[3]	20122761
	HORIZONTAL FLUE TERMINAL (XF)	20122759
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL (XV)	20122763
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

(1) Subject to registration and annual service, terms and conditions apply. (2) Telescopic rear flue terminal has a minimum length of 600mm but can be cut to 320mm. (3) Consider depth of boiler model.

energy saving trust endorsed product
Endorsed Product

Rear Flue

BeSMART Compatible

Programmable Thermostat

Optional Pipe Cover

evolve S

High efficiency system boiler

Dimensions (mm)

275*
350**
740
420
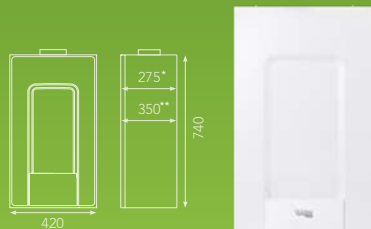
* Depth for models 18S & 24S
** Depth for models 30S & 35S

SPECIFICATIONS	18S	24S	30S	35S
PRODUCT ORDER CODE	20127447	20127448	20131081	20131082
CENTRAL HEATING				
HEAT INPUT (kW)	18	24	30	35
MAXIMUM HEAT OUTPUT @ 80/60°C (kW)	17.6	23.5	29.4	34.3
MAXIMUM HEAT OUTPUT @ 50/30°C (kW)	19.2	25.6	31.8	37.2
WEIGHT				
DRY WEIGHT (KG)	34.4	34.4	35.5	38.5
EFFICIENCY				
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/94			

ACCESSORIES	
DESCRIPTION	CODE
STANDARD BESMART WI-FI KIT	20111860
REC 10H CONTROLLER (HYBRID USE)	20134449
REC 10H WALL MOUNTING KIT	20134478
7 DAY RF PROGRAMMABLE ROOM THERMOSTAT	20101743
SPACING FRAME	20139516
EXTERNAL BOX (TO ENCLOSE APPLIANCE FOR EXTERNAL MOUNTING)	1103289
FROST PROTECTION KIT	20134475
EXTERNAL CONNECTIONS KIT	20134477
OUTSIDE WEATHER COMPENSATION SENSOR	2359259
MAGNETIC FILTER	29450199
CONDENSATE PUMP	404

NB: For every 45° and 90° bend deduct 1m from flue length

FLUE LENGTHS	18S	24S	30S	35S
FLUE DETAILS (CONCENTRIC)				
MAX HORIZONTAL FLUE LENGTH 60/100MM	10M		5M	
MAX VERTICAL FLUE LENGTH 60/100MM	11M		6M	
MAX HORIZONTAL FLUE LENGTH 80/125MM	25M		15M	12M
MAX VERTICAL FLUE LENGTH 80/125MM	25M		15M	12M

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)		
COMPONENT	DESCRIPTION	CODE
	TELESCOPIC REAR FLUE 320MM – 825MM[3]	20132064
	TELESCOPIC HORIZONTAL FLUE TERMINAL (XT) 400MM – 575MM[4]	20122761
	HORIZONTAL FLUE TERMINAL (XF)	20122759
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL (XV)	20122763
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

(1) Subject to registration and annual service. 10 year warranty offer valid when installed with BeSMART and registered through Vokèra Affinity, standard warranty for 7 years, terms and conditions apply. (2) Cupboard fit applies to 18S & 24S. (3) Telescopic rear flue terminal has a minimum length of 600mm but can be cut to 320mm. (4) Consider depth of boiler model.

94% ErP — Space Heating Efficiency
10 — 10 Year Warranty [1]
OpenTherm Inside
Reduced Emissions ACC Inside
Easy Installation Includes Time Clock

TEXT — Text Driven Menu
Built-in CO Monitor
Cupboard Fit [2]
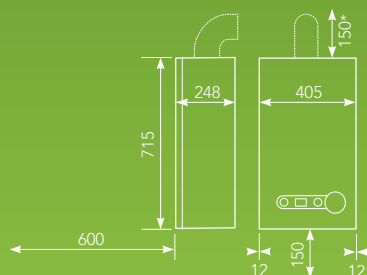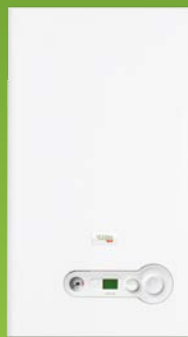NG/LPG — Compatible Out Of The Box
Rear Flue

Vision S

High efficiency system boiler

Dimensions and Clearances (mm)

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

SPECIFICATIONS	VISION 20S	VISION 25S
PRODUCT ORDER CODE	20099228	20099229
CENTRAL HEATING		
HEAT INPUT (kW)	20	25
HEAT OUTPUT @ 80/60°C (kW)	19.5	24.5
HEAT OUTPUT @ 50/30°C (kW)	20.8	26.2
WEIGHT		
DRY WEIGHT (KG)	27	28
EFFICIENCY		
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/93	A/93

ACCESSORIES	
DESCRIPTION	CODE
CONTROL INTERFACE[2]	20008401
SPACING FRAME	20030704
MAGNETIC FILTER	29450199
CONDENSATE PUMP	404
PIPE COVER	20012594
VISION 20S / 25S LPG CONVERSION KIT	20082917 / 20113110

FLUE LENGTHS	VISION 20S	VISION 25S
FLUE DETAILS (CONCENTRIC)		
MAX HORIZONTAL FLUE LENGTH (60/100MM)	5.85M	4.85M
MAX VERTICAL FLUE LENGTH (60/100MM)	6.85M	5.85M
MAX HORIZONTAL FLUE LENGTH (80/125MM)	15.3M	12.8M
MAX VERTICAL FLUE LENGTH (80/125MM)	16.3M	13.8M
FLUE DETAILS (TWIN PIPES)		
MAX HORIZONTAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M
MAX VERTICAL FLUE LENGTH (80MM/80MM)	45M/45M	40M/40M

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)

COMPONENT	DESCRIPTION	CODE
	TELESCOPIC REAR FLUE 320MM – 825MM[3]	20132064
	TELESCOPIC HORIZONTAL FLUE TERMINAL 400MM – 575MM[4]	20131981
	HORIZONTAL FLUE TERMINAL	20132063
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL	20131983
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

(1) Subject to registration and annual service, terms and conditions apply. (2) Required for use with OpenTherm and weather compensation controls. (3) Telescopic rear flue terminal has a minimum length of 600mm but can be cut to 320mm. (4) Consider depth of boiler model.

ErP Compliant   7 Year Warranty[1]   OpenTherm Inside   Rear Flue   Endorsed Product

energy saving trust endorsed product

Lightweight & Compact   Optional Pipe Cover   BUILT-IN ON-BOARD RELAY   Easy Installation

Mynute 20 VHE

High efficiency open vent boiler

Dimensions and Clearances (mm)

340   400

150*

740

600

12   150   12
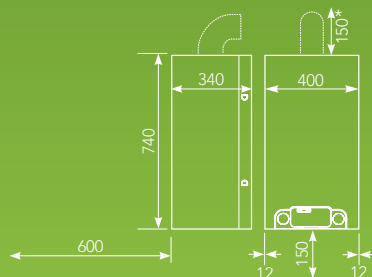
*From casing or 25mm above flue elbow
(whichever is applicable)

SPECIFICATIONS	MYNUTE 20 VHE
PRODUCT ORDER CODE	20144035
CENTRAL HEATING	
HEAT INPUT (kW)	20
HEAT OUTPUT @ 80/60°C (kW)	19.7
HEAT OUTPUT @ 50/30°C (kW)	21.2
WEIGHT	
DRY WEIGHT (KG)	28
EFFICIENCY	
ErP SEASONAL SPACE HEATING ENERGY EFFICIENCY (CLASS/%)	A/92

OPTIONS	
DESCRIPTION	CODE
SPACING FRAME	2359689
MAGNETIC FILTER	29450199
CONDENSATE PUMP	404
WHITE PIPE COVER 400MM	518
MYNUTE VHE LPG CONVERSION KIT	01005446

Pipe cover shown is not supplied as standard as with the Mynute 20 VHE, available as an optional extra.

FLUE LENGTHS	MYNUTE 20 VHE
FLUE DETAILS (CONCENTRIC)	
MAX HORIZONTAL FLUE LENGTH (60/100MM)	7.8M
MAX VERTICAL FLUE LENGTH (60/100MM)	8.8M
MAX HORIZONTAL FLUE LENGTH (80/125MM)	20M
MAX VERTICAL FLUE LENGTH (80/125MM)	25M
FLUE DETAILS (TWIN PIPES)	
MAX HORIZONTAL FLUE LENGTH (80MM/80MM)	40M/40M
MAX VERTICAL FLUE LENGTH (80MM/80MM)	40M/40M

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)

COMPONENT	DESCRIPTION	CODE
	TELESCOPIC HORIZONTAL FLUE TERMINAL 400MM – 575MM[2]	20131981
	HORIZONTAL FLUE TERMINAL	20132063
	PLUME MANAGEMENT KIT	20142842
	90° BEND	20132059
	45° BEND (PAIR)	20132058
	500MM EXTENSION	20132060
	1000MM EXTENSION	20132061
	2000MM EXTENSION	20132062
	TELESCOPIC EXTENSION 372MM – 519MM	20131979
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL	20131983
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582

For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 28.

(1) Subject to registration and annual service, terms and conditions apply.
(2) Consider depth of boiler model.

ErP Compliant   5 Year Warranty[1]   Radial Heat Exchanger   Versatile Flueing Options   Endorsed Product

energy saving trust endorsed product

Domestic boiler feature 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	EVOLVE COMBI	VISION COMBI	COMPACT A	EVOLVE SYSTEM	VISION SYSTEM	MYNUTE 20 VHE
10 YEAR WARRANTY	✓[1]	✗	✗	✓[1]	✗	✗
7 YEAR WARRANTY	✓	✓	✗	✓	✓	✗
5 YEAR WARRANTY	✗	✗	✓	✗	✗	✓
ACC (ACTIVE COMBUSTION CONTROL)	✓	✗	✗	✓	✗	✗
EMBEDDED CLOCK	✓	✓	✗	✓	✗	✗
TEXT-DRIVEN MENU	✓	✗	✗	✓	✗	✗
PRESSURE TRANSDUCER	✓	✗	✗	✓	✗	✗
DHW FLOW METER	✓	✗	✗	✗	✗	✗
D-SUB INTERFACE	✓	✗	✗	✓	✗	✗
EXCESS CARBON MONOXIDE (CO) MONITOR	✓	✗	✗	✓	✗	✗
EFFICIENCY INDICATOR	✓	✗	✗	✓	✗	✗
MODBUS COMPATIBLE	✓	✗	✗	✓	✗	✗
FRONT-SERVICING	✓	✗	✗	✓	✗	✗
CONCEALED SERVICE VALVES	✓	✗	✗	✓	✗	✗
LPG/NG (NO KIT REQUIRED)	✓	✗	✗	✓	✗	✗
LPG MODEL / CONVERSION KIT AVAILABLE	✗	✓	✓	✗	✓	✓
FIXING JIG	✓	✗	✗	✗	✗	✗
BACK LIT LCD DISPLAY	✓	✓	✓	✓	✓	✗
HISTORY RECALL INFORMATION FUNCTION	✓	✓	✗	✓	✗	✗
DHW PREHEAT ON/OFF FUNCTION	✓	✓	✓	✗	✗	✗
AUTOSTOP FUNCTION – 1 MODE OPERATION	✓	✓	✓	✓	✓	✓
OPENTHERM EMBEDDED	✓	✓[2]	✓[2]	✓[2]	✓[2]	✗
BESMART COMPATIBLE	✓	✓	✓	✓[3]	✓[3]	✗
BUILT-IN FILLING LOOP	✓	✓	✗	✗	✗	✗
PRE-HEATED HOT WATER	✓	✓	✓	✗	✗	✗
PRE-FIXING JIG	✓	✗	✗	✗	✗	✗
FULL HOT WATER FLAME MODULATION +/– 1OC MAX FLUCTUATION	✓	✓	✓	✗	✗	✗
AUTOMATIC BY-PASS	✓	✓	✓	✓	✓	✗
DIGITAL DIAGNOSTIC CODE DISPLAY	✓	✓	✓	✓	✓	✓
WEATHER COMPENSATION CONTROL OPTION	✓[2]	✓[2]	✓[2]	✓[2]	✓[2]	✗
COMPARTMENT VENTILATION NOT REQUIRED	✓	✓	✓	✓	✓	✓
BUILT-IN FROST PROTECTION	✓	✓	✓	✓	✓	✓
ANTI SEIZE FUNCTION	✓	✓	✓	✓	✓	✓
NOX CLASS 6	✓	✗	✗	✓	✗	✗
FAULT DIAGNOSTIC DISPLAY	✓	✓	✓	✓	✓	✓
CLICK FIT FLUE SYSTEM	✓	✗	✗	✓	✗	✗
TELESCOPIC FLUE SYSTEM	✓	✓	✓	✓	✓	✓
TWIN FLUE SYSTEM	✓	✓	✓	✓	✓	✓
VERTICAL FLUE OPTION	✓	✓	✓	✓	✓	✓
REAR FLUE OPTION	✓	✓	✓	✓	✓	✗
COMBUSTION ANALYSIS FUNCTION	✓	✓	✓	✓	✓	✓
PIPE SPACE THROUGH BACK OF BOILER	OPT	OPT	OPT	OPT	OPT	N/A

(1) When registered via Vokèra Affinity. (2) Contact Vokèra Technical Support for advice.   *(3) Can be used on heating only applications – contact Vokèra Technical Support for advice.*

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Flue options
Terminal positions
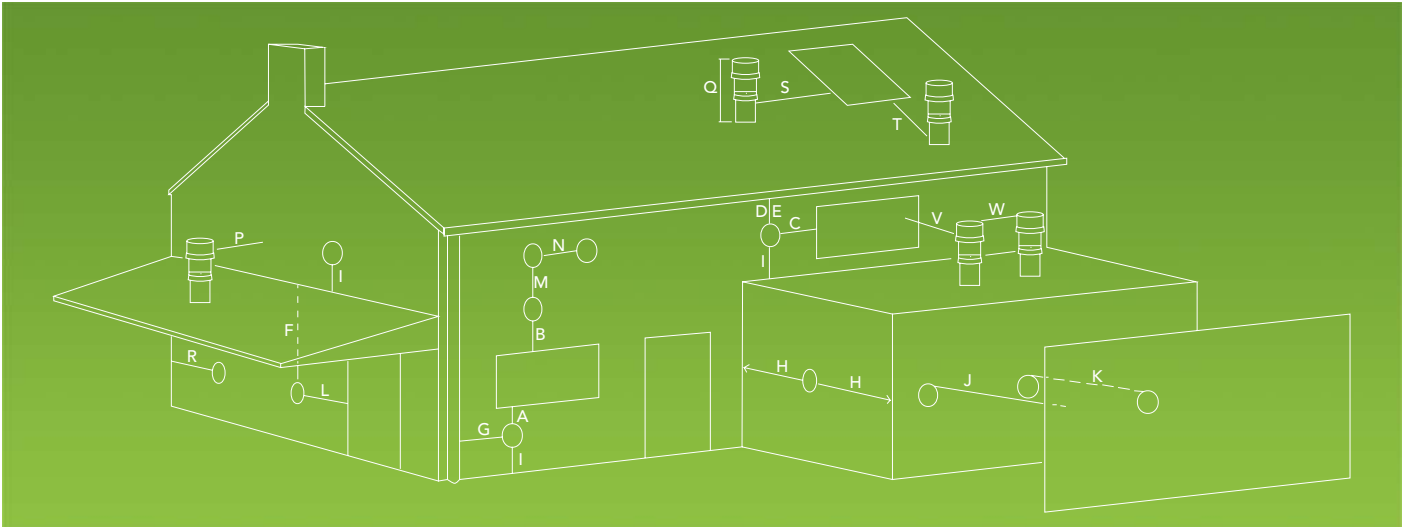
FLUE EXIT CLEARANCES

	FLUE EXITS	MINIMUM DISTANCE
A	BELOW AN OPENING*	300MM
B	ABOVE AN OPENING*	300MM
C	TO THE SIDE OF AN OPENING*	300MM
D	BELOW GUTTERS, DRAIN PIPE ETC	25MM
E	BELOW EAVES	25MM
F	BELOW BALCONY, CARPORT ROOF ETC	25MM
G	TO SIDE OF A VERTICAL SOIL/DRAIN PIPE ETC	25MM (60MM FOR 80/125 FLUE)
H	FROM INTERNAL OR EXTERNAL CORNER OR BOUNDARY	25MM (60MM FOR 80/125 FLUE)
I	ABOVE GROUND, ROOF OR BALCONY LEVEL	300MM
J	FROM A SURFACE OR BOUNDARY FACING A TERMINAL	600MM**
K	FROM A TERMINAL FACING A TERMINAL	1200MM
L	FROM AN OPENING IN THE CARPORT INTO THE BUILDING	1200MM
M	VERTICALLY FROM A TERMINAL ON THE SAME WALL	1500MM
N	HORIZONTALLY FROM A TERMINAL ON THE SAME WALL	300MM
P	FROM A STRUCTURE TO THE SIDE OF A VERTICAL TERMINAL	300MM
Q	FROM THE TOP OF A VERTICAL TERMINAL TO THE ROOF FLASHING	AS DETERMINED BY FIXED COLLAR OF VERTICAL TERMINAL
R	TO THE SIDE OF A BOUNDARY	300MM
S	TO THE SIDE OF AN OPENING* / WINDOW ON A PITCHED ROOF	600MM
T	BELOW AN OPENING* / WINDOW ON A PITCHED ROOF	2000MM
V	FROM A VERTICAL TERMINAL TO AN ADJACENT OPENING*	CALL VOKÈRA TECHNICAL SUPPORT FOR ADVICE
W	FROM A VERTICAL TERMINAL TO AN ADJACENT VERTICAL TERMINAL	300MM (ONLY IF BOTH TERMINALS ARE SAME HEIGHT)

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

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

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

Flue options
Installation options

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 specific appliances suitability with the different concentric flue systems.
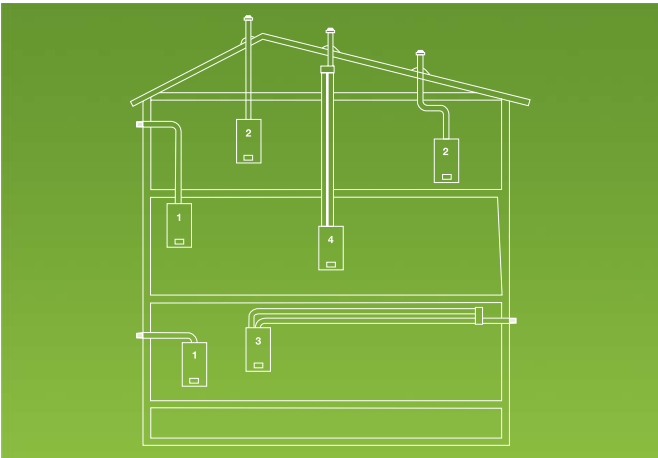
Flue system options

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.

Also available is the 80mm flexible PP flue system range consisting 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.

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
Vokèra Technical Support on **0844 391 0999 (option 4)**.

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

An adaptor kit is required to convert the appliance flue outlet from a concentric configuration into a parallel configuration.

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

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

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

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

80mm parallel (Twin) flue systems

CODE	
20134830	ADAPTOR KIT FOR EVOLVE
430	ADAPTOR KIT FOR ALL OTHER CONDENSING BOILERS
225805	HORIZONTAL TERMINAL & CONVERTOR BOX
225810	VERTICAL TERMINAL & CONVERTOR BOX
225820	250MM EXTENSION (PAIR)
225825	500MM EXTENSION (PAIR)
225830	1000MM EXTENSION (PAIR)
225835	2000MM EXTENSION (PAIR)
225840	45° BEND (PAIR)
225845	90° BEND (PAIR)
225850	DOUBLE PIPE BRACKET 80MM X 80MM (5 OFF)
225855	SINGLE PIPE BRACKET 80MM (5 OFF)
225765	FLAT ROOF FLASHING PLATE (390MM DIAMETER)
310	ADAPTOR KIT FOR AQUANOVA
29450178*	CONDENSATE TRAP KIT FOR AQUANOVA
29450176	VERTICAL COLLECTOR FOR AQUANOVA
29450177	HORIZONTAL COLLECTOR FOR AQUANOVA

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

Boiler and flue compatibility
60/100 concentric flue range

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

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

It can also be used as a replacement flue system on older / obsolete Vokèra HE appliances, however you should contact the Vokèra Technical Support for specific advice.

60/100mm concentric flue systems

CODE	FEATURE	EVOLVE COMBI	VISION COMBI	COMPACT A	EVOLVE SYSTEM	VISION SYSTEM	MYNUTE 20 VHE
20122761	TELESCOPIC HORIZONTAL FLUE TERMINAL (XT)	✓	✗	✓	✓	✗	✗
20131981	TELESCOPIC HORIZONTAL FLUE TERMINAL	✓	✓	✗	✓	✓	✓
20122759	STANDARD HORIZONTAL FLUE TERMINAL (XF)	✓	✗	✓	✓	✗	✗
20132063	STANDARD HORIZONTAL FLUE TERMINAL	✗	✓	✗	✗	✓	✓
20142842	PLUME MANAGEMENT KIT	✓	✓	✓	✓	✓	✓
29450131	PLUME MANAGEMENT KIT EXTENSION	✓	✓	✓	✓	✓	✓
20132059	90° BEND	✓	✓	✓	✓	✓	✓
20132058	45° BEND (PAIR)	✓	✓	✓	✓	✓	✓
20132060	500MM EXTENSION	✓	✓	✓	✓	✓	✓
20132061	1000MM EXTENSION	✓	✓	✓	✓	✓	✓
20132062	2000MM EXTENSION	✓	✓	✓	✓	✓	✓
20131979	TELESCOPIC EXTENSION	✓	✓	✓	✓	✓	✓
20135587	WALL BRACKETS (5 X 100MM)	✓	✓	✓	✓	✓	✓
20122763	VERTICAL FLUE TERMINAL (XV)	✓	✗	✓	✓	✗	✗
20131983	VERTICAL FLUE TERMINAL	✗	✓	✗	✓	✓	✓
20132050	PITCHED ROOF FLASHING PLATE	✓	✓	✓	✓	✓	✓
20135582	FLAT ROOF FLASHING PLATE	✓	✓	✓	✓	✓	✓
20132064	REAR FLUE TERMINAL	✓	✓	✓	✓	✓	✗
29450130	WHITE NOSE CONE	✓	✓	✓	✓	✓	✓
20142841	45° PLUME DIVERTER	✓	✓	✓	✓	✓	✓

(1) Available as special order only. Minimum order quantities apply.

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

Telescopic horizontal flue terminal
60/100mm concentric flue
Code: 20131981

45° plume diverter
60/100mm concentric flue
Code: 20142841

Plume management kit
60/100mm concentric flue
Code: 20142842

Boiler and flue compatibility
80/125 concentric flue range

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

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

80/125mm concentric flue systems							
CODE	FEATURE	EVOLVE COMBI [1]	VISION COMBI	COMPACT A	EVOLVE SYSTEM [1]	VISION SYSTEM	MYNUTE 20 VHE
413	HORIZONTAL TERMINAL	✓	✓	✓	✓	✓	✓
414	VERTICAL TERMINAL	✓	✓	✓	✓	✓	✓
415	90° BEND	✓	✓	✓	✓	✓	✓
416	45° BEND (SINGLE)	✓	✓	✓	✓	✓	✓
417[1]	250MM EXTENSION	✓	✓	✓	✓	✓	✓
418	500MM EXTENSION	✓	✓	✓	✓	✓	✓
419	1000MM EXTENSION	✓	✓	✓	✓	✓	✓
420	2000MM EXTENSION	✓	✓	✓	✓	✓	✓
422[1]	TELESCOPIC EXTENSION	✓	✓	✓	✓	✓	✓
423	WALL BRACKETS (5 X 125MM)	✓	✓	✓	✓	✓	✓
424	BOILER TOP ADAPTOR FOR HE APPLIANCES	✓	✓	✓	✓	✓	✓
425[1]	FIXED OFFSET	✓	✓	✓	✓	✓	✓
426	SILICON LUBRICANT	✓	✓	✓	✓	✓	✓
20135582	FLAT ROOF FLASHING PLATE	✓	✓	✓	✓	✓	✓
20132050	PITCHED ROOF FLASHING PLATE	✓	✓	✓	✓	✓	✓

(1) Contact Vokèra Technical Support for advice.

90° bend / 45° bend
80/125mm concentric flue
Code: 415 / 416

500 / 1000 / 2000mm extension
80/125mm concentric flue
Code: 418 / 419 / 420

Pitched roof flashing plate
80/125mm concentric flue
Code: 20132050

Flat roof flashing plate
80/125mm concentric flue
Code: 20135582

Choosing the right control
Intelligent controls

Maximise energy and fuel savings

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

The one area that can still help maximise the efficiency and overall performance of the boiler is the correct use of a control. Even with average efficiencies now reaching over 90%, this can be increased by a further 2%, with the simple addition of an outside weather compensation sensor 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, including: room thermostats, programmable room thermostats and the Vokèra BeSMART range that incorporates the most advanced technology available, such as weather compensation and OpenTherm.

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

Vokera BeSMART & Controls course

This course can help you understand the principles of combustion and the fundamentals of how control technology can work in conjunction with boiler operation. The course covers the range of Vokèra intelligent and basic controls as well as the new BeSMART Internet enabled thermostat. The course explains how to connect and install the BeSMART as well as the possibilities of remote room temperature, zoning and boiler control and operation.

Course Covers:

- Principles of combustion, modulation and boiler operation
- System and radiator design considerations
- Appraisal of existing systems
- Customer considerations
- Hands on training on how to connect Vokèra controls (including BeSMART OpenTherm and weather compensation) to Vokèra boilers
- 'Boiler Plus' scheme from April 2018.

To book your place on the controls course please call our training co-ordinator on 01727 744002 or email **training@vokera.co.uk**

Controls Compatibility

CODE	FEATURE	EVOLVE COMBI	VISION COMBI	COMPACT A	EVOLVE SYSTEM	VISION SYSTEM	MYNUTE 20 VHE
20111860	STANDARD BESMART WI-FI KIT [4]	✓	✓	✓	✓[1]	✓[1]	✗
20050690	711 OPENTHERM RF PROGRAMMABLE ROOM STAT	✓	✓[2]	✓[2]	✓[1]	✓[1]	✗
2359259	OUTSIDE WEATHER COMPENSATION SENSOR	✓	✓[2]	✓[2]	✓[1]	✓[1]	✗
20112080	RF OUTSIDE WEATHER COMPENSATION SENSOR (PV)	✓	✓[2]	✓[2]	✓[1]	✓[1]	✗
20101743	7 DAY RF PROGRAMMABLE ROOM THERMOSTAT	✓	✓	✓	✓[1]	✓[1]	✓[1]
20063874	7 DAY RF PROGRAMMABLE ROOM THERMOSTAT (HARD-WIRED)	✓	✓	✓	✓[1]	✓[1]	✓[1]
20059642	RF ROOM THERMOSTAT CONTROL	✓	✓	✓	✓	✓	✓
20025085	COMPACT A 24 HOUR ANALOGUE CLOCK KIT [3]	✗	✗	✓	✗	✗	✗

(1) Can be used on heating only applications – contact Vokèra Technical Support for advice.
(2) Requires control interface – code 29450143 – contact Vokèra Technical Support for advice. The addition of an energy saving control will override any settings that have been programmed into the built-in digital clock on the Vision combi.

(3) Compact A 24 hour analogue clock kit includes a pipe cover that the analogue clock is incorporated into.
(4) Weather compensation – via physical sensor or internet look up via BeSMART App.

Choosing the right control
Providing energy saving solutions

How can controls improve the ErP efficiency

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

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

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

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

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

All evolve combis plus class VI controls (BeSMART with OpenTherm and weather compensation – via physical sensor or Internet look up) achieves an ErP A+ (98%) space heating package rating.

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

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

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

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

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

Controls and ErP classifications

CODE	DESCRIPTION	CLASS I	CLASS II	CLASS III	CLASS IV	CLASS V	CLASS VI	CLASS VII	CLASS VIII
20059642	RF ROOM THERMOSTAT CONTROL	✓	✗	✗	✗	✗	✗	✗	✗
20111860	STANDARD BeSMART WI-FI KIT [3]	✗	✗	✗	✗	✗	✓	✗	✗
20101743	7 DAY RF PROGRAMMABLE ROOM THERMOSTAT	✓	✗	✗	✗	✗	✗	✗	✗
20063874	7 DAY RF PROGRAMMABLE ROOM THERMOSTAT (HARD-WIRED)	✓	✗	✗	✗	✗	✗	✗	✗
20050690	711 OPENTHERM RF PROGRAMMABLE ROOM STAT [1]	✗	✗	✗	✗	✓	✗	✗	✗
20050691	711 OPENTHERM RF PROGRAMMABLE ROOM STAT [2]	✗	✗	✗	✗	✓	✗	✗	✗
20112080	RF OUTSIDE SENSOR KIT (PHOTOVOLTAIC)	✗	✓	✗	✗	✗	✗	✗	✗
2359259	OUTSIDE WEATHER COMPENSATION SENSOR	✗	✓	✗	✗	✗	✗	✗	✗
	PACKAGE/SYSTEM EFFICIENCY LABEL – UPLIFT	1%	2%	1.5%	2%	3%	4%	3.5%	5%

(1) White. (2) Black. (3) Weather compensation – via physical sensor or internet look up via BeSMART App.

BeSMART
The smarter home heating control

The smarter way for customers to control their home heating from their mobile and save money...

OpenTherm Inside

BeSMART is one of the first Internet enabled heating control systems designed so that every home can enjoy the benefits of the BeSMART control. Specifically engineered to compliment the Vokèra boiler range, whilst maintaining compatibility with the majority of residential boilers, it is the ideal replacement for older thermostats.

- Control home heating from anywhere, via smartphone, tablet or desktop

- Compatible with the majority of boiler brands, not just Vokèra

- Manage up to 8 different heating zones from anywhere in the world

- Weather compensation adjusts boiler output to reflect ambient climate

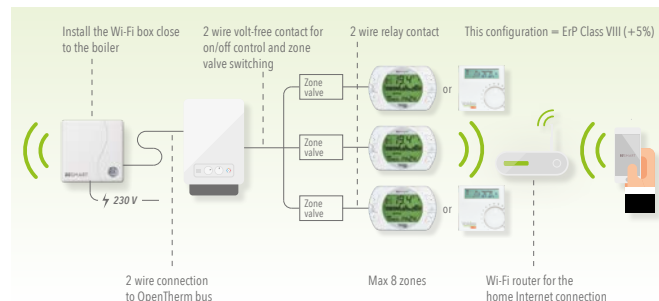- Programme up to 3 comfort levels, suiting mood or pocket

- BeSMART alerts both the customer and the Vokèra Service Centre if something goes wrong, minimising disruption

Typical OpenTherm multi-zone configuration

Programmable Wi-Fi Thermostat for Zone
Valve Control and Boiler OpenTherm Connection

Install the Wi-Fi box close to the boiler | 2 wire volt-free contact for on/off control and zone valve switching | 2 wire relay contact | This configuration = ErP Class VIII (+5%)

230 V

2 wire connection to OpenTherm bus | Max 8 zones | Wi-Fi router for the home Internet connection

BeSMART ACCESSORIES:

CODE		DESCRIPTION
20111860		**STANDARD BESMART WI-FI KIT** KIT INCLUDES THE BeSMART THERMOSTAT AND WI-FI BOX AND POWER SUPPLY (ALSO INCLUDES: BATTERIES, BOILER OT WIRING KIT, WALL FIXINGS, ADHESIVE MAGNETIC FIXING STRIP AND INSTRUCTIONS).
20111875		**BeSMART THERMOSTAT** FOR USE WITH MULTI-ZONE APPLICATIONS - CAN BE COUPLED TO AN EXISTING WI-FI BOX TO ENABLE MULTI-ZONE CONTROL (ALSO INCLUDES: BATTERIES AND WALL FIXINGS).
20101743		**RF PROGRAMMABLE ROOM THERMOSTAT** FOR USE WITH MULTI-ZONE APPLICATIONS - CAN BE COUPLED TO AN EXISTING WI-FI BOX TO ENABLE MULTI-ZONE CONTROL (ALSO INCLUDES: BATTERIES AND WALL FIXINGS).
20111890		**WI-FI BOX** ENABLES EXPANSION OR UPGRADE OF EXISTING BeSMART THERMOSTAT THEREBY ENABLING ENHANCED FUNCTIONALITY VIA THE BeSMART APP (ALSO INCLUDES: WALL FIXINGS, MAGNETIC FIXING STRIP, WI-FI BOX POWER SUPPLY AND INSTRUCTIONS).
20112079		**BOILER RF RECEIVER** PRE-WIRED AND CAN BE USED TO CONFIGURE THE BeSMART THERMOSTAT INTO A STANDARD RF CONTROL; AND CAN ALSO BE USED IN THOSE OCCASIONS WHERE THE BOILER LOCATION HAS A POOR OR ABSENT WI-FI SIGNAL (ALSO INCLUDES: MAGNETIC FIXING STRIP).
20112080		**RF OUTSIDE SENSOR KIT (PHOTOVOLTAIC)** RF TEMPERATURE SENSOR (PHOTOVOLTAIC) FOR WEATHER COMPENSATION CONTROL. ONLY FOR COMPATIBLE BOILERS. (ALSO INCLUDES: BOILER RECEIVER WITH PRE-WIRED CONNECTOR AND WALL FIXINGS).
20112083		**WI-FI ROUTER FOR SIM CARD** SIM CARD ROUTER, PLUGS DIRECTLY IN TO A 230V POWER SOCKET TO CREATE A WI-FI NETWORK AND CONNECT BeSMART TO THE INTERNET. IDEAL FOR SECOND HOMES (DATA REQUIRED SIM CARD, NOT INCLUDED).
20112112		**WI-FI EXTENDER** EXTENDS AND IMPROVES THE WI-FI SIGNAL IN AREAS OF YOUR HOME WHERE THE WI-FI SIGNAL STRENGTH IS POOR OR INADEQUATE.

For more information and technical details please contact Vokèra Technical Support or visit: www.besmart-home.com

Choosing the right control
Intelligent energy saving controls

Outside weather compensation sensor

The outside weather compensation sensor manages the central heating temperature by regulating the boiler flow temperature depending on the external weather conditions, providing a consistent and comfortable room temperature.

Many Vokèra models come with the weather compensation technology built-in, meaning that by simply purchasing the external sensor, the homeowner can benefit from even further energy savings.

The weather compensation sensor can also be installed in conjunction with the Vokèra OpenTherm programmable room thermostat which will further enhance energy savings.

711 OpenTherm RF programmable room thermostat

OpenTherm is the most advanced control technology; the basic principle of OpenTherm is that it takes over the management of the heating flow temperature and raises or lowers the flow temperature from the boiler in order to maintain the desired room temperature.

By allowing OpenTherm to manage the flow temperature, the efficiency of the appliance is increased as the control constantly endeavours to maintain a low flow temperature. Condensing boilers are at their peak efficiency when operating at lower flow and return temperatures.

Basic room thermostats control the central heating temperature only, whilst programmable room thermostats can have different set temperatures for different periods of the day, offering greater flexibility and a simple solution to boiler control. It is usual to set your thermostat between 18° to 21°C.

7 day RF programmable room thermostat

This on / economy / off programmable room thermostat allows easy control over boiler heating timings and temperatures over a 7 day period. It has been developed to work with our current range of appliances[1] and is also compatible with several discontinued products.

OpenTherm Inside

RF (wireless) and hard-wired versions are available to ensure a simple installation to both new boilers and as a replacement for existing wired controls. This room thermostat can be configured as a 7 day programmer, a 5+2 day programmer with up to 24 temperature changes a day or as an untimed room thermostat.

Configured for use with the Compact A combi boiler, the receiver can quickly and easily be connected to the boiler using the Tyco connection socket (pictured left), meaning a Part P qualified electrician is not required to fit it. The Tyco connection can be re-configured or removed to facilitate use with other compatible Vokèra boilers.

RF room thermostat control

This on / off room thermostat has similar characteristics to the 7 day RF programmable room thermostat as it can be used to adjust the set room temperature.
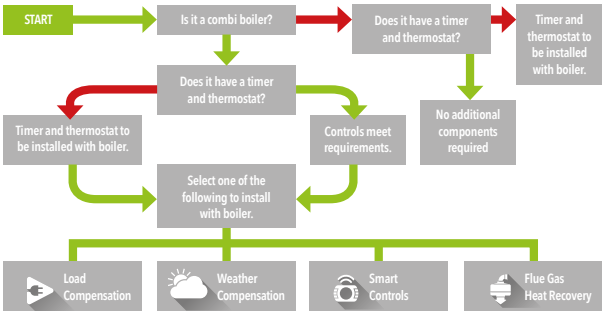
It is ideal for the Vision combi boiler as this optional room thermostat can be installed in a convenient location so that the user can easily adjust their heating temperature, without interfering with any programmed heating timings that have been set on the Vision C boilers built-in 7 day digital clock.

It is also compatible with all the current Vokèra ranges and can be used on older appliances that incorporate an integral clock.[2]

Compatible with BeSMART and can be used independently with Wi-Fi Box (20111890) and BeSMART App.

Boiler Plus

From April 2018 new legislation to raise efficiency standards of domestic heating are in place for England.

START → Is it a combi boiler? → Does it have a timer and thermostat? → Timer and thermostat to be installed with boiler.

Does it have a timer and thermostat?

Timer and thermostat to be installed with boiler.

Controls meet requirements.

No additional components required

Select one of the following to install with boiler.

Load Compensation | Weather Compensation | Smart Controls | Flue Gas Heat Recovery

For more information visit www.vokera.co.uk/boilerplus

AquaNova LE

Instantaneous multipoint water heater

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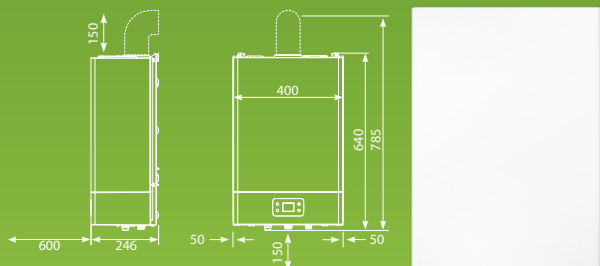
*From casing or 25mm above flue elbow
(whichever is applicable)

SPECIFICATIONS	AQUANOVA LE
PRODUCT ORDER CODE (NATURAL GAS)	20143490
PRODUCT ORDER CODE (LPG)	20143493
DOMESTIC HOT WATER	
MAXIMUM HEAT INPUT (kW)	30.0
FLOW RATE – 35°C RISE (L/MIN)	13.2
WEIGHT	
DRY WEIGHT (KG)	21
EFFICIENCY	
ErP WATER HEATING EFFICIENCY (XL PROFILE) (CLASS/%)	A/82.0

ErP Compliant   2 Year Warranty[1]   Instant Hot Water   High Flow Rate

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NB: For every 60/100mm concentric flue 45° and 90° bend deduct 1.5m from flue length.
For every twin flue 45° and 90° bend deduct 1m from the flue length.

FLUE LENGTHS	AQUANOVA LE
FLUE DETAILS (CONCENTRIC)	
MAX HORIZONTAL FLUE LENGTH (60/100MM)	2.6M
MAX VERTICAL FLUE LENGTH (60/100MM)	3.6M
FLUE DETAILS (TWIN PIPES)	
MAX HORIZONTAL FLUE LENGTH (80MM/80MM)	6M/6M + TERMINAL
MAX VERTICAL FLUE LENGTH (80MM/80MM)	6M/6M + TERMINAL

HORIZONTAL AND VERTICAL FLUE OPTIONS (60/100)

COMPONENT	DESCRIPTION	CODE
	TELESCOPIC HORIZONTAL FLUE TERMINAL 417 – 717MM[2]	2359119
	HORIZONTAL FLUE TERMINAL	2359029
	90° BEND	2359059
	45° BEND (PAIR)	2359049
	750MM EXTENSION	2359069
	1500MM EXTENSION	2359079
	TELESCOPIC EXTENSION 350MM – 490MM	2359089
	WALL BRACKETS (5 X 100MM)	20135587
	VERTICAL FLUE TERMINAL	2359039
	PITCHED ROOF FLASHING PLATE	20132050
	FLAT ROOF FLASHING PLATE	20135582
	STANDARD JOINT CLIPS	2359179
	LONG JOINT CLIPS 2359169	2359169

 For a complete list of flues and accessories, including 80/125 concentric flues and twin flues see page 26.

(1) Subject to registration and annual service, terms and conditions apply.
(2) Consider depth of boiler model.

AquaFlow

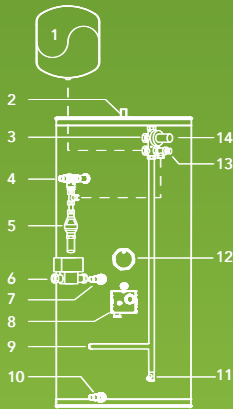## Indirect unvented cylinders

KEY

1. Expansion vessel
2. Hot water draw off
3. Balanced pressure cold outlet
4. Temperature and pressure relief valve (90ºC / 7bar)
5. Tundish
6. 2-port motorised value
7. Heating flow
8. Thermostat / energy cut out
9. Cold water inlet
10. Heating return
11. Drain valve
12. Immersion heater
13. Expansion relief valve
14. Pressure reducing valve (3.5bar) with inline strainer

AquaFlow indirect single coil shown

SPECIFICATIONS	AQUA FLOW 120SC	AQUA FLOW 150SC	AQUA FLOW 180SC	AQUA FLOW 200SC	AQUA FLOW 250SC	AQUA FLOW 300SC
PRODUCT ORDER CODE	29450020	29450021	29450022	29450023	29450024	29450025
NOMINAL CAPACITY (LITRES)	120	150	180	200	250	300
DIMENSIONS AND WEIGHTS						
HEIGHT (MM)	1001	1191	1371	1593	1843	2153
DIAMETER (MM)	555	555	555	555	555	555
WEIGHT WHEN EMPTY (KG)	26.8	28.9	32.4	36.8	40.7	45.9
WEIGHT WHEN FULL (KG)	146	178	209	248	291	345
PERFORMANCE						
COIL RATING (kW)	13.6	17.2	17.3	17.1	16.8	16.5
COIL SURFACE AREA (M²)	0.4	0.8	0.8	0.8	0.8	0.8
REHEAT TIME 15ºC - 60ºC (MIN)	18	23	24	28	35	41
EFFICIENCY						
HEAT LOSS (W)	51	60	67	77	89	103
MAX WORKING PRESSURE (BAR)	6	6	6	6	6	6
ErP RATING	B	C	C	C	C	D

ErP Compliant   25 Year Warranty[1]   BUILDING & WATER REGULATIONS APPROVED   COMPATIBLE WITH MYNUTE & VISION S

SPECIFICATIONS	AQUAFLOW 200TC	AQUAFLOW 250TC	AQUAFLOW 300TC
PRODUCT ORDER CODE	29450026	29450027	29450028
NOMINAL CAPACITY (LITRES)	200	250	300
DIMENSIONS AND WEIGHTS			
HEIGHT (MM)	1160	1410	1610
DIAMETER (MM)	580	580	580
WEIGHT WHEN EMPTY (KG)	50	43	50
WEIGHT WHEN FULL (KG)	245	301	353
PERFORMANCE			
UPPER COIL RATING (kW)	15.7	15.6	15.5
UPPER COIL SURFACE AREA (M²)	0.5	0.5	0.5
LOWER COIL RATING (kW)	18.6	18.4	17.1
LOWER COIL SURFACE AREA (M²)	0.62	0.62	0.62
EFFICIENCY			
HEAT LOSS (W)	79	91	105
MAX WORKING PRESSURE (BAR)	6	6	6
ErP RATING	C	C	D

(1) Subject to registration and annual service, 25 year warranty on the tank, 2 year warranty on ancilliary parts, terms and conditions apply.

ErP Compliant   25 Year Warranty[1]   BUILDING & WATER REGULATIONS APPROVED   Solar Thermal Compatible

Support
Technical training

Vokèra technical training delivers real value to Gas Safe Registered engineers. Our training focuses on an engineer's need to become familiar with the product and to enable quick and simple installation or repair. Our training is structured to ensure you cover: the appliance range, installation, operation, wiring, flueing, benchmark, fault finding and commissioning. To attend you must be Gas Safe Registered.*

For more information or to book a course call 01727 744002 or email training@vokera.co.uk

VOKÈRA PRODUCT COURSES	
BOILER INSTALLATION AND COMMISSIONING COURSE	1 DAY
FAULT FINDING PRODUCT COURSE	1 DAY
NEW ENTRANTS COURSE	1 DAY
BeSMART & CONTROLS COURSE (INC 'BOILER PLUS' OVERVIEW)	1 DAY
RENEWABLES OVERVIEW PRODUCT COURSE	1 DAY
INDIVIDUAL OR TAILORED WORKSHOPS	1 DAY
COMMERCIAL HEATING PRODUCT COURSE	1 DAY

Vokèra offers training across the UK & Ireland:

● Internal site
● External site

1 Aberdeen
2 Belfast
3 Bradford
4 Callan Co Kilkenny
5 Cardiff (Treforest)
6 Chichester
7 Dudley
8 Glasgow
9 Langport
10 London Colney
11 Newton Abbot
12 Norwich
13 Oxford
14 Plymouth
15 Uxbridge

*excluding the BeSMART & Controls course.

Support
After sales support

Customer care team – 0844 391 0999 (option 2)

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

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

Technical support – 0844 391 0999 (option 4)

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

Product warranty

As with all domestic gas boilers, an annual service is recommended to maintain optimum performance, efficiency and safety. In addition to a parts and labour warranty* we also make a promise to all our customers:-

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

*All warranties are subject to registration and annual servicing.

Accreditations and quality assurances

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

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

Renewable products

Vokèra by Riello renewable products provide low carbon heating and hot water systems for domestic and commercial applications.

We are committed to reducing energy consumption and are focused on producing products that minimise impact on the environment. With a wealth of experience in home heating, we are able to provide the product and the knowledge to ensure a reliable and successful installation. By offering a range of solar thermal collectors and air source heat pumps, we can supply you with the product you need to make the most of sustainable energy resources, while the experienced Vokèra pre sales team support each project from start to finish. Be it for one home or one hundred, you can trust us to provide the complete and correct renewable energy system for you.

Heat pumps

Vokèra AriaPRO air source heat pump

Outputs (kW): 4 – 6 – 8 – 12 – 15

The AriaPRO air source heat pumps are ideal for new build and retrofit applications, their minimal installation preparation is making them a popular renewable technology. Utilising ambient air and upgrading it to a more useful temperature between 35° and 60° makes AriaPRO ideal for underfloor heating systems, oversize radiators, DHW and heating swimming pools.

AriaPRO heat pumps have a coefficient of performance of up to 4.2 (1kW of electricity used to generate 4.2kW of heat). It is supplied with a built-in external sensor, supplementary external sensor and remote control to maximise efficiency.

It has an integral expansion vessel (2 litres with the 4, 6 and 8kW and 3 litres with the 12 and 15kW outputs). Its twin rotary compressor managed by PAM and PWM logic control ensures both temperature and efficiency is optimised at all times leading to fuel efficiency, lower noise and improved end user comfort.

- ErP Class A
- Coefficient of performance up to 4.2
- Ideal for new build and retrofit applications
- 2 year warranty[1]
- Simple installation with minimum installation preparation
- Ideal for underfloor heating, oversize radiators, DHW and heating swimming pools
- Compatible with the AquaFlow HP

(1) Subject to registration

Solar thermal

The Vokèra Zenith packages enable simple ordering of a complete Zenith system and are compatible with the Vokèra Mynute i, Vision system or Mynute VHE open vent boilers and AquaFlow Twin cylinders.

Vokèra Zenith on tile flat plate solar thermal collectors

Zenith on tile collectors provide optimum performance when sited on a south facing roof with an angle of inclination between 35 to 45° or with an east/west facing roof using a split system.

- Ideal for retrofit applications
- Highly selective coating on copper absorber plate for excellent absorption
- Pressurised system for optimum performance
- 4cm rock wool lining ensures excellent heat retention
- Solar Keymark seal of approval
- 10 year warranty[1]
- A well installed system has life a expectancy of over 20 years
- Full pre and post sales support via Vokèra Pre Sales Advice Team and Technical Team

Vokèra Zenith evacuated tube solar thermal collectors

Zenith evacuated tube collectors provide improved efficiency, making them a more viable option where the installation position falls outside of the ideal positioning for flat plate collectors. Also Evacuated tube collectors provide greater efficiency due to the vacuum within the glass tubes enabling them to retain absorbed heat for longer.

- Ideal for new build and retrofit applications
- Highly selective coating on copper absorber plate within each tube for excellent absorption
- Pressurised system for optimum performance
- Greater application flexibility and efficiency
- Solar Keymark seal of approval
- 2 year warranty[1]
- Full pre and post sales support via Vokèra Pre Sales Advice Team and Technical Team

(1) Subject to registration

Commercial products

Vokèra by Riello specialises in the domestic and commercial heating and hot water market and provides products that fulfil most modern requirements. Complementing the domestic boiler portfolio, presented in this guide, we also offer a comprehensive commercial boiler range and renewables portfolio.

Condexa Pro

- Standalone and cascade applications
- Wall mounted, free standing and back-to-back installation options
- Wide range of accessories for almost unlimited configurations

Steel Pro Power

- Modular floor standing commercial boilers
- Standalone and cascade applications
- Outdoor installation via accessories
- Cascade applications up to 1.3MW

For more information on the above products visit www.vokera.co.uk/commercial or request the relevant catalogue by emailing us at commercial@vokera.co.uk

How to contact us

Technical
technical@vokera.co.uk
0844 391 0999 option 4

Training
training@vokera.co.uk
0844 391 0999 option 5

Spares
spares@vokera.co.uk
0844 391 0999 option 3

Customer Care
service@vokera.co.uk
0844 391 0999 option 2

Sales
sales@vokera.co.uk
0844 391 0999 option 1

Marketing Support
marketing@vokera.co.uk

General Enquiries
enquiries@vokera.co.uk
0844 391 0999 option 1

Pre Sales
pre-sales@vokera.co.uk

Vokèra Affinity
affinitysupport@vokera.co.uk
01727 744044
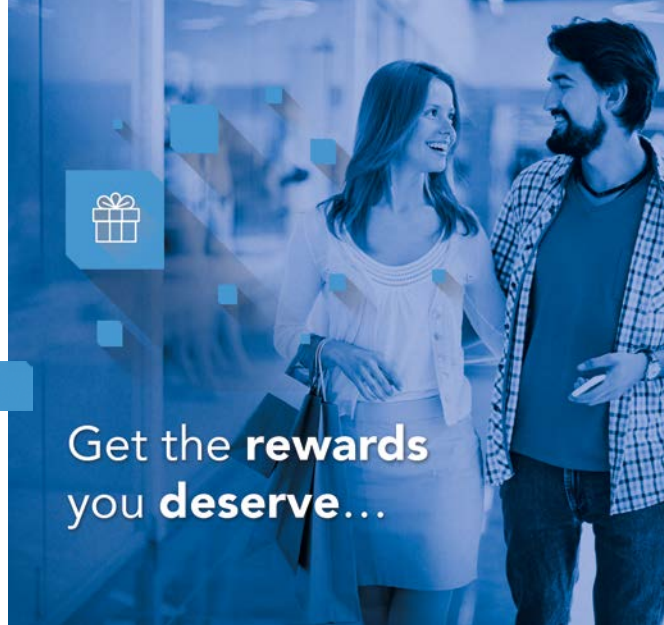www.vokeraaffinity.co.uk

Useful contacts

Gas Safe Register
Tel: 0800 408 5577
Web: www.gassaferegister.co.uk

Heating and Hot Water Information Council
Tel: 01926 513777
Web: www.centralheating.co.uk

Benchmark
Tel: 01926 513777
Web: www.centralheating.co.uk

Chartered Institute of Plumbing and Heating Engineering (CIPHE)
Tel: 01708 472791
Web: www.ciphe.org.uk

Get the **rewards** you **deserve**...

Vokèra Affinity

☆	✏	⊕	🎓	⏻	🛒	🎁	⋔	📅	📱
Promotions	Registration	Support	Training	Product	Stockists	Rewards	Marketing	Events	VokèraApp

If you are a gas installer registered with either Gas Safe Register (UK) or RGII (ROI) then you really should become a member of Vokèra Affinity.

Now, with just one simple online registration you can register your product installation with Vokèra to receive **FREE Gas Safe notification (UK only*), extended warranty activation,** automated reward points to redeem against a host of rewards, FREE and discounted training, access to spares and stockists and much more.

Not yet a member? Sign up today!

In the UK scan or visit
www.**vokeraaffinity**.co.uk

In Ireland scan or visit
www.**vokeraaffinity**.ie

* In ROI, boiler installation registration with RGII must be carried out in the usual way. Vouchers are available as a reward item within Affinity, which can be used towards the cost of RGII forms for certification – saving you money!

Vokèra App

FOR THE INSTALLER ON THE GO

The VokèraApp provides a gateway to Vokèra Affinity and a host of support material:

- Affinity member area
- Mobile access to literature
- Boiler spares & accessory listings
- Stockist locator
- Promotions
- Technical and customer support

If you don't have a QR code reader, search "Vokera" on Google play or the App store.

Vokèra BY **RIELLO**

Domestic
Gas Boilers

Commercial
Gas Boilers

Solar Thermal

Heat Pumps

Water Heating

Smart Controls

Spares &
Accessories

Service