

Eden X TYPE TECHNICAL SPECIFICATIONS

PERFORMANCE DATA

APPLIANCE		VBX 18	VBX 30	VBX 18 PROPANE	VBX 30 PROPANE	SBX 30	SBX 30 PROPANE	CBX 24	CBX 32	CBX 38	CBX 24 PROPANE	CBX 32 PROPANE	CBX 38 PROPANE
Mode	Rate												
	Max kW	18.0	30.0	18.0	30.0	30.0	30.0	18.0	24.0	30.0	18.0	24.0	30.0
Central Heating Output (non-condensing) (80 - 60°C)	Min kW	5.9	8.2	5.9	8.2	8.2	8.2	5.9	7.9	9.0	5.9	7.9	9.0
	Max kW	19.3	32.1	19.3	32.1	32.1	32.1	19.3	25.7	32.1	19.3	25.9	32.1
Central Heating Output (condensing) (50 - 30°C)	Gross kW	20.4	33.8	20.0	33.0	33.8	33.0	20.4	27.2	34.0	20.0	26.6	33.2
	Min Rate	6.1	8.4	6.0	8.3	8.4	8.3	6.1	8.2	10.2	6.0	7.9	10.0
Domestic Hot Water Output	Max kW	-	-	-	-	-	-	24.0	32.0	38.0	24.0	32.0	38.0
	Min kW	-	-	-	-	-	-	5.9	7.9	9.0	5.9	7.9	9.0
Domestic Hot Water Input Max rate	Gross kW	-	-	-	-	-	-	27.2	36.2	43.1	26.6	35.5	42.1
	Min rate	-	-	-	-	-	-	6.1	8.2	10.2	7.9	6.0	10.0

Nominal DHW flow rate raised 35°C	l/min (gpm)	-	-	-	-	-	-	9.8 (2.2)	13.1 (2.8)	15.6 (3.4)	9.8 (2.2)	13.1 (2.8)	15.6 (3.4)
Specific DHW flow rate EN 625	l/min	-	-	-	-	-	-	11.5	15.3	18.1	11.5	15.3	18.1

Central Heating Gas Rate (after 10 min operation - hot)	Max m ³ /h (ft ³ /h) kg/h	1.95 (68.9)	3.22 (113.7)	1.43	2.36	3.22 (113.7)	2.36	1.95 (68.9)	2.59 (91.5)	3.24 (114.8)	1.43	1.9	2.2
Domestic Hot Water Gas Rate (after 10 min operation - hot)	Max m ³ /h (ft ³ /h) kg/h	-	-	-	-	-	-	2.59 (91.5)	3.46 (122.2)	4.10 (144.8)	1.9	2.55	2.2

Seasonal Efficiency	%	90.3	90.4	92.3	92.4	90.4	92.4	90.2	90.8	90.2	93.0	92.9	92.3
Seasonal Efficiency (SEDBUK)	Band			"A"				"A"			"A"		
NOx Classification	Class			"5"				"5"			"5"		

GENERAL

Total weight (full)	kg	32.6	38.1	32.6	38.1	55.2	51.7	54.9	55.4	51.7	54.9	55.4	
Total weight (empty)	kg	31.3	36.1	31.3	36.1	52.8	49.9	52.8	52.8	49.9	52.8	52.8	
Max lift weight	kg	24.7	28.1	24.7	28.1	41.0	39.0	42.0	42.2	39.0	42.0	42.2	
Total water capacity	ltr	1.3	2.0	1.3	2.0	2.4	1.8	2.1	2.4	1.8	2.1	2.4	
Integral expansion vessel capacity	ltr					8				8			
Maximum heating system water content using fitted expansion vessel @ 0.75 bar	ltr					84				84			
Electrical supply		230V 50Hz Fuse at 3A											
Internal fuse		T4H 4A 250V											
Maximum power consumption	W	110				190				190			
IP Rating		IP 20				IP 33				IP 33			
Flue gas temperature 80/60	°C	74	73	72	76	73	76	74	79	80	72	77	80
Flue gas temperature 50/30	°C	43	41	43	41	41	41	43	41	62	43	41	62
CO ₂ value max rate	%	9.2 ± 0.3 case on 9.0 ± 0.2 case off		10.7 ± 0.3 case on 10.5 ± 0.2 case off		9.2 ± 0.3 case on 9.0 ± 0.2 case off	10.7 ± 0.3 case on 10.5 ± 0.2 case off	9.2 ± 0.3 case on 9.0 ± 0.2 case off	9.2 ± 0.3 case on 9.0 ± 0.2 case off	9.2 ± 0.3 case on 10.7 ± 0.3 case off	10.7 ± 0.3 case on 10.5 ± 0.2 case off	10.7 ± 0.3 case on 10.5 ± 0.2 case off	10.7 ± 0.3 case on 10.5 ± 0.2 case off
CO ₂ value min rate ref only	%	8.4 ± 0.1	8.9 ± 0.1	10.0 ± 0.1	9.7 ± 0.1	8.9 ± 0.1	10.0 ± 0.1	8.4 ± 0.1	8.4 ± 0.1	8.4 ± 0.3	9.7 ± 0.1	9.7 ± 0.1	9.7 ± 0.3
CO value max rate		0.01 ± 0.005				0.01 ± 0.005	0.019 ± 0.005	0.01 ± 0.005	0.01 ± 0.005	0.01 ± 0.005	0.019 ± 0.005	0.019 ± 0.005	0.019 ± 0.005
Flue products mass flow rate	g/s	8.3	13.7	8.3	13.7	13.7	13.7	11.0	14.7	17.4	11.0	14.7	17.4
Gas Valve Offset @ min rate	Pa		-3.0			-3.0					-3.0		

APPLIANCE		VBX	SBX	CBX
Min Mains Water Inlet Pressure for Max Heat Output	Bar (psi)	-	-	1.0 (14.5)
Min Mains Water Inlet Pressure for Operation	Bar (psi)	-	-	0.1 (1.5)
Max Mains Water Inlet Pressure	Bar (psi)	-	-	10 (145)
Min Domestic Hot Water Flow Rate for Operation	l/min (gpm)	-	-	2.01 (0.4)
Min Central Heating System Pressure	Bar	0.1(1mH ₂ O)	0.7	0.7
Max Central Heating System Pressure	Bar	3.0	3.0	3.0
Max Domestic Hot Water Temperature	°C	-	-	60
Min Domestic Hot Water Temperature	°C	-	-	40
Max Central Heating Flow Temperature	°C	80	80	80
Min Central Heating Flow Temperature	°C	30	30	30

CONNECTIONS

APPLIANCE	VBX	SBX and CBX
Gas	15 mm compression	15 mm compression
CH flow	22 mm tail	22 mm compression
CH return	22 mm tail	22 mm compression
DHW inlet CBX appliance only	-	15 mm compression
DHW outlet CBX appliance only	-	15 mm compression
DHW secondary return SBX only	-	22 mm compression
Pressure relief valve outlet	-	15 mm tail
Condensate Drain	21.5 - 22 mm plastic overflow pipe	21.5 - 22 mm plastic overflow pipe

British Gas Service Listed Gas Council Numbers

Eden VBX 18: N.G. - G.C. No 41-260-15	PROPANE - G.C. No 41-260-18
Eden VBX 30: N.G. - G.C. No. 41-260-14	PROPANE - G.C. No 41-260-17
Eden SBX 30: N.G. - G.C. No 41-260-13	PROPANE - G.C. No 41-260-16
Eden CBX 24: N.G. - G.C. No 47-260-05	PROPANE - G.C. No 47-260-07
Eden CBX 32: N.G. - G.C. No. 47-260-04	PROPANE - G.C. No 47-260-06
Eden CBX 38: N.G. - G.C. No. 47-260-14	PROPANE - G.C. No 47-260-15



*WARRANTY CONDITIONS

5 YEAR HEAT EXCHANGER WARRANTY

Relates to: 1. Part replacement only, beyond 2 years. 2. Only defects resulting from a material or manufacturing defect of the Stainless Steel heat exchanger. 3. 5 years from date of manufacture of heat exchanger (label attached).

Subject to: 1. Boiler having been installed by Corgi registered engineer and to manufacturer's instructions. 2. The same conditions relating to 2 year warranty also apply to 5 years. 3. Evidence of use on a clean and correctly maintained system containing an appropriate inhibitor. 4. Examination of heat exchanger by the manufacturer.

Note: for full details of conditions and exclusions relating to warranty, please see our website.

2 YEAR PARTS AND LABOUR WARRANTY ON ALL OTHER COMPONENTS

Subject to: 1. Registration of installation. 2. Satisfactory completion of Benchmark logbook. 3. Service after 12 months by Corgi registered engineers.



GLEN DIMPLEX BOILERS

Glen Dimplex Boilers, Stoney Lane, Prescot, Merseyside L35 2XW

For all telephone enquiries call: 0844 371 1111

Website: www.glendimplexboilers.com

Glen Dimplex Boilers, based in Prescot Liverpool, manufactures and markets a range of condensing gas boilers and supporting accessories. Part of the Glen Dimplex Group, the company has more than 35 years of manufacturing and boiler experience backed-up by the award winning Glen Dimplex Home Appliances Customer Care Centre, that controls a nationwide network of service engineers and a service and technical helpline. Products include: Dimplex, a range of advanced design boilers; Eden X Type and ACE, providing variable heating outputs and easy installation; Edensol, a solar thermal hot water package and Aquastore, an unvented cylinder for powerful, mains-pressure hot water.

Glen Dimplex is continuously improving its products and may therefore change specifications without prior notice. The statutory rights of the consumer are not affected.

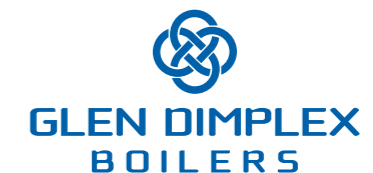
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FOR ALL TELEPHONE ENQUIRIES CALL: 0844 371 1111



Eden X Type

HIGH EFFICIENCY CONDENSING BOILERS



Introduction

We've been manufacturing heating appliances in the UK since 1975 and became part of the Glen Dimplex Group in 2004.

With a global annual turnover of about £1.2 billion, the Group is the world's largest electrical heating business. Not only does it consist of leading electrical brands such as Dimplex, Morphy Richards and Roberts Radio, but also other household names in gas like Belling, New World and Stoves.

Fortunately, Glen Dimplex Boilers is able to benefit from the Group's resources and build on its success in the UK heating industry. In keeping with the Glen Dimplex Group, we remain clearly focused on manufacturing, development, sales and after sales service.



After sales service

Should you have an after sales query, just call our Technical Services Department on 0844 371 1111

All our Service Co-ordinators are ex-installers and will be happy to sort out any technical or installation issues as quickly as possible.

What's more, we've also 120 service engineers throughout the UK that can be called upon.

Why choose a condensing boiler?

Put simply, a 'high efficiency' or 'condensing' boiler is far more efficient than a 'conventional' boiler. On average, through the seasons, more than 90% of the gas used is converted to heat compared with around 70%* with an old appliance. However, condensing boilers can also offer a wide range of other benefits:



ENVIRONMENT

Lower emissions of carbon dioxide (CO₂), carbon monoxide (CO) and nitrogen oxide (NO_x), mean that condensing boilers are much more environmentally friendly than their conventional counterparts. They help to cut down on greenhouse gases and conserve fossil fuel resources.

COST AND FUEL

Not only do high efficiency condensing boilers help protect the environment, they also help to lower fuel bills for the homeowner. Compared with conventional boilers, condensing models get more heat out of the same amount of gas - which means less fuel used, and more savings made.

HOME COMFORT

The latest technology used in appliances such as The Eden X Type, means that the boiler output can be increased or decreased instantly in response to heating demand. When used with room thermostats and central heating programmers this can create a far more controllable and comfortable living environment.

BUILDING REGULATIONS

Changes to Part L of the Building Regulations are standardised in Scotland in 2007, making the commitment to reducing CO₂ emissions UK-wide from the 1st of May.

The Government's underlying driver for the changes to Part L continues to be the need to combat climate change globally, with a commitment to reduce CO₂ by 20% by 2010 and by 60% by 2050.

For all installers of oil-fired boilers, April 2007 marked the changes to Part L1 of the building regulations that specifies that all new or replacement oil-fired boilers must be at least SEDBUK B or A where possible.

WHY 'CONDENSING'?

Because condensing boilers waste so little heat, the flue gases exiting the boilers are far cooler than conventional appliances. This leads under optimum conditions to the flue gases 'condensing' inside the boiler and flue pipe. The resulting water droplets (only equivalent in acidity to lemon juice) drain into the boiler's integral trap and out to a normal domestic drain.

PRE-MIX BURNER SYSTEM

A combined fan and gas valve pre-mixes gas and air which is fed to the cylindrical radiant burner. The burner system has a wide modulation range down to as low as 25% of maximum output, which improves heating and hot water comfort and enables low combustion temperatures - crucial to achieving low carbon monoxide, nitrogen oxide emissions and higher efficiencies.

WARRANTY AND AFTERSALES SERVICE

In addition to a 2 year parts and labour warranty from date of installation, Eden X Type is supported by a network of over 100 service agents across the UK. Installer and householder queries are handled by a specialist team of technical co-ordinators based at Prescot and available on: 0844 371 1111

Eden VBX

PREMIUM PERFORMANCE
OPEN VENTED CONDENSING BOILER

In homes looking to replace traditional cast iron boilers, wall hung or floor standing, the Eden VBX Open Vent Condensing boiler is the perfect choice particularly if you are looking to reap the benefits of environmentally friendly boiler technology, but with the minimum of disruption to existing heating system layout.



Compact 550mm height with user control concealed behind attractive hinged door



Simple user control for central heating temperature with LED to indicate boiler status

PERFORMANCE WITH EFFICIENCY

- Choice of two outputs*
 - VBX 18: 18.0kW (62,000 Btu/hr)
 - VBX 30: 30.0kW (102,000 Btu/hr)
- Wide modulation range tailors output to optimum heating requirement*
 - VBX 18: 5.9kW (20,000 Btu/hr) up to 18.0kW (62,000 Btu/hr)
 - VBX 30: 8.2kW (28,000 Btu/hr) up to 30.0kW (102,000 Btu/hr)
- SEDBUK A rating means maximum efficiency - saves money and the environment
- Low NOx (nitrogen oxide) emissions means kinder to the environment (NOx class 5: <70mg/kWh)
- Stainless steel 'coil' heat exchanger with the latest burner technology means quiet and efficient operation
- 5 year heat exchanger warranty (subject to conditions*)

QUALITY AND RELIABILITY

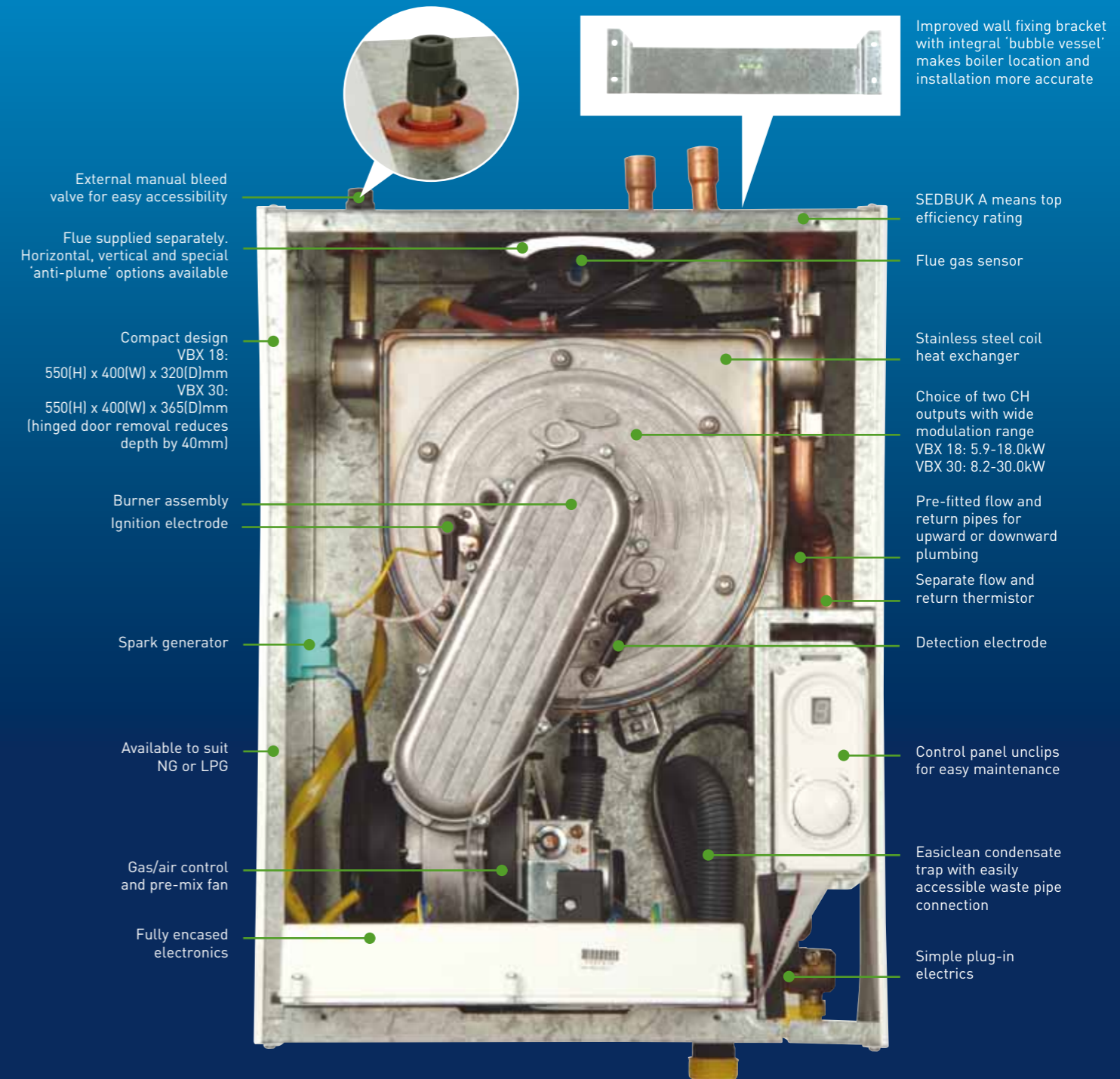
- Designed for the UK market and made in the UK
- Fitted only with top quality components
- Durable stainless steel heat exchanger giving excellent corrosion resistance
- Digital electronics ensure accurate and reliable operation

USER BENEFITS

- Overall dimensions (mm)
 - VBX 18: 550(H) x 400(W) x 320(D) - one of smallest pre-mix open vent boilers
 - VBX 30: 550(H) x 400(W) x 365(D)
- Compactness means VBX 18 fits into typical kitchen wall cupboards (with door removed)
- LED display and single control knob means simple to understand and use
- Boiler and controls concealed behind stylish curved door
- British Gas Service Listed
- Dry-fire protection
- 2 year parts and labour warranty backed by nationwide after service

*Outputs stated are non-condensing. When condensing, boiler output will exceed these figures.

**DHW = Domestic Hot Water



External manual bleed valve for easy accessibility

Flue supplied separately. Horizontal, vertical and special 'anti-plume' options available

Compact design
VBX 18:
550(H) x 400(W) x 320(D)mm
VBX 30:
550(H) x 400(W) x 365(D)mm
(hinged door removal reduces depth by 40mm)

Burner assembly
Ignition electrode

Spark generator

Available to suit
NG or LPG

Gas/air control
and pre-mix fan

Fully encased
electronics

Improved wall fixing bracket with integral 'bubble vessel' makes boiler location and installation more accurate

SEDBUK A means top efficiency rating

Flue gas sensor

Stainless steel coil heat exchanger

Choice of two CH outputs with wide modulation range
VBX 18: 5.9-18.0kW
VBX 30: 8.2-30.0kW

Pre-fitted flow and return pipes for upward or downward plumbing

Separate flow and return thermistor

Detection electrode

Control panel unclips for easy maintenance

Easiclean condensate trap with easily accessible waste pipe connection

Simple plug-in electrics



Diagnostic LED display aids installation and maintenance

Single control knob means simple to understand and use

Eden SBX

PREMIUM PERFORMANCE
SEALED SYSTEM CONDENSING BOILER

For households seeking the benefits of a sealed central heating system, (i.e. No Loft header tank and lower system contamination) The Eden SBX sealed system condensing boiler is the ideal solution and comes with the added benefit of being high on performance and efficiency, and low on environmental impact.



Attractive casing conceals user controls behind door drop



Control panel features separate on/off, central heating temperature control, boiler status LED's and system pressure gauge*

*Hot water control active only with storage tank temperature sensor

PERFORMANCE WITH EFFICIENCY

- Maximum CH output* 30.0kW (102,000 Btu/hr)
- Wide modulation range tailors output to optimum heating requirement*
- SBX 30: 8.2kW (28,000 Btu/hr) up to 30.0kW (102,000 Btu/hr)
- SEDBUK A rating means maximum efficiency - saves money and the environment
- Low NOx (nitrogen oxide) emissions means kinder to the environment (NOx class 5: <70mg/kWh)
- Stainless steel 'coil' heat exchanger with the latest burner technology means quiet and efficient operation
- 5 year heat exchanger warranty (subject to conditions*)

QUALITY AND RELIABILITY

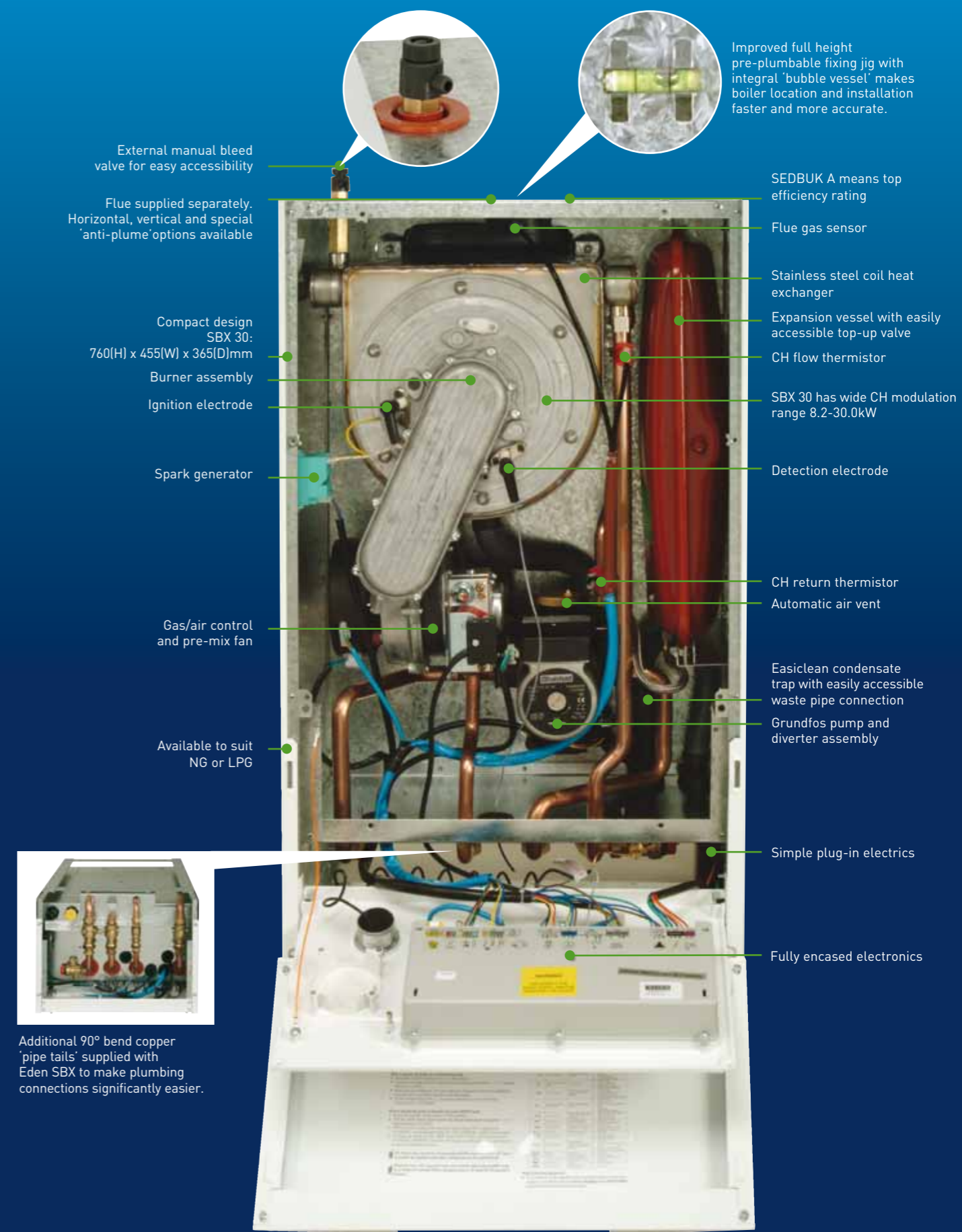
- Designed for the UK market and made in the UK
- Fitted only with top quality components
- Durable stainless steel heat exchanger giving excellent corrosion resistance
- Digital electronics ensure accurate and reliable operation
- Pump anti-seize feature and frost protection

USER BENEFITS

- Compact dimensions (mm) at 760(H) x 455(W) x 365(D)
- Control panel concealed behind drop door
- LED display lights indicate boiler status
- Optional use DHW** control knob for use if boiler connected to DHW storage tank where fitted with a temperature sensor (not for use with standard tank thermostat)
- Stylish casing design with concealed valves and fittings
- British Gas Service Listed
- 2 year parts and labour warranty backed by nationwide after service

*Outputs stated are non-condensing. When condensing, boiler output will exceed these figures.

**DHW = Domestic Hot Water



External manual bleed valve for easy accessibility

Flue supplied separately. Horizontal, vertical and special 'anti-plume' options available

Compact design SBX 30: 760(H) x 455(W) x 365(D)mm

Burner assembly

Ignition electrode

Spark generator

Gas/air control and pre-mix fan

Available to suit NG or LPG

Improved full height pre-plumbable fixing jig with integral 'bubble vessel' makes boiler location and installation faster and more accurate.

SEDBUK A means top efficiency rating

Flue gas sensor

Stainless steel coil heat exchanger

Expansion vessel with easily accessible top-up valve

CH flow thermistor

SBX 30 has wide CH modulation range 8.2-30.0kW

Detection electrode

CH return thermistor

Automatic air vent

Easiclean condensate trap with easily accessible waste pipe connection

Grundfos pump and diverter assembly

Simple plug-in electrics

Fully encased electronics



Additional 90° bend copper 'pipe tails' supplied with Eden SBX to make plumbing connections significantly easier.

Optional use DHW control (operates only with DHW storage tank fitted with temperature sensor)

Diagnostic LED display means fast problem solving

Service setting overrides modulation for maintenance purposes

Eden CBX

PREMIUM PERFORMANCE
COMBINATION CONDENSING BOILER

For those looking for a compact central heating solution, with hot water on demand and no header or storage tanks, the answer is the Eden CBX combination condensing boiler, especially if you're looking for excellent all-round energy efficiency and environmental friendliness.



Attractive casing conceals user controls behind drop door



Control panel features separate on/off, individual central heating and domestic hot water temperature controls, boiler status LED's, system pressure gauge and integral 24hr timer

PERFORMANCE WITH EFFICIENCY

- Choice of three outputs
 - CBX 24: 24.0kW (82,000 Btu/hr)
 - CBX 32: 32.0kW (110,000 Btu/hr)
 - CBX 38: 38.0kW (129,600 Btu/hr) maximum DHW** output
- Wide CH modulation range tailors output to optimum heating requirement*
 - CBX 24: 5.9kW (20,000 Btu/hr) up to 18.0kW (62,000 Btu/hr)
 - CBX 32: 7.9kW (27,000 Btu/hr) up to 24.0kW (82,000 Btu/hr)
 - CBX 38: 9.0kW (30,700 Btu/hr) up to 30.0kW (102,400 Btu/hr)
- SEDBUK A rating means maximum efficiency - saves money and the environment
- Low NOx (nitrogen oxide) emissions means kinder to the environment (NOx class 5: <70mg/kWh)
- Stainless Steel 'coil' heat exchanger with the latest burner technology means quiet and efficient operation
- 5 year heat exchanger warranty (subject to conditions*)

QUALITY AND RELIABILITY

- Designed for the UK market and made in the UK
- Fitted only with top quality components
- Durable stainless steel heat exchanger giving excellent corrosion resistance
- Digital electronics ensure accurate and reliable operation
- Pump anti-seize feature and frost protection

USER BENEFITS

- Compact dimensions (mm) at 760(H) x 455(W) x 365(D)
- 'Self-learning' DHW** comfort pre-heat setting delivers hot water in under 5 seconds and adapts to the individual user's needs
- High specific flow rates at 30° temp rise (as defined EN 625)
 - CBX 24 - 11.5 litres per minute - CBX 32 - 15.3 litres per minute - CBX 38 - 18.1 litres per minute
- Nominal flow rate at 35° temp rise
 - CBX 24 - 9.8 litres per minute - CBX 32 - 13.1 litres per minute - CBX 38 - 15.6 litres per minute
- Control panel concealed behind drop door
- LED display lights indicate boiler status
- Integral 24 hour timer for simple central heating control
- Stylish casing design with concealed valves and fittings
- British Gas Service Listed
- 2 year parts and labour warranty backed by nationwide after sales service

*Outputs stated are non-condensing. When condensing, boiler output will exceed these figures. ** DHW = Domestic Hot Water



External manual bleed valve for easy accessibility

Flue supplied separately. Horizontal, vertical and special 'anti-plume' options available

Compact design CBX 24, 32 and 38: 760(H) x 455(W) x 365(D)mm

Burner assembly

Ignition electrode

Spark generator

Gas/air control and pre-mix fan

Available to suit NG or LPG

Improved full height pre-plumbable fixing jig with integral 'bubble vessel' makes boiler location and installation faster and more accurate.

SEDBUK A means top efficiency rating

Flue gas sensor

Stainless steel coil heat exchanger

CH flow thermistor

Expansion vessel with easily accessible top-up valve

Choice of three outputs with wide CH modulation range -
CBX 24 5.9-18.0kW
CBX 32 7.9-24.0kW
CBX 38 9.0-30.0kW

Detection electrode

CH return thermistor

Automatic air vent

Easyclean condensate trap with easily accessible waste pipe connection

Grundfos pump and diverter assembly

Large plate heat exchanger supports specific flow rate (EN 625) at 30° temperature rise
CBX 24: 11.5 lpm
CBX 32: 15.3 lpm
CBX 38: 33.0 lpm

Simple plug-in electrics

Fully enclosed electronics

Diagnostic LED display means fast problem solving

Service setting overrides modulation for maintenance purposes

Complete with 24 hour time clock

Comfort setting for 5 second DHW delivery (adapts to usage patterns and preheats boiler)

Additional 90° bend copper 'pipe tails' supplied with Eden CBX to make plumbing connections significantly easier.

All outputs stated for non-condensing mode
Outputs will rise in condensing mode

Eden VBX

OPEN VENTED CONDENSING BOILER

Eden SBX

SEALED SYSTEM CONDENSING BOILER

Eden CBX

COMBINATION CONDENSING BOILER

EASE OF INSTALLATION

- Lightweight – VBX 18 at 24.7kgs, VBX 30 at 28.1kgs
- Pre-fitted flow and return pipes for both upward and downward plumbing
- Built in 'easiclean' trap and easily accessible waste pipe connection
- Simple plug-in electrics for easier connection and quick disconnection
- Optional wire-in facility for independent control of flow temperatures to suit CH and high recovery DHW** storage cylinder (external relay required)
- Quiet operation
- Diagnostic LED display aids installation and maintenance
- Long flue run capability means flexibility in siting - horizontal 10m, vertical 12m
- Range of special flue kits available for avoiding nuisance plumbing. See rear inside pages

EASE OF INSTALLATION

- Lightweight 41kgs
- Pre-plumbable fixing jig enables plumbing and testing prior to final fit
- Jig also enables upward pipe runs behind the boiler
- Internal diverter valve and second primary flow point gives optional use in controlling external high recovery DHW** storage cylinder
- Built in 'easiclean' trap and easily accessible waste pipe connection
- Simple plug-in electrics for easier connection and quick disconnection
- Optional wire-in facility for independent control of flow temperatures to suit CH and high recovery DHW** storage cylinder (external relay required)
- Diagnostic LEDs display 16 different conditions aiding installation and maintenance
- Long flue run capability means flexibility in siting - horizontal 10m, vertical 12m
- Range of special flue kits available for avoiding nuisance plumbing. See rear inside pages

EASE OF INSTALLATION

- Lightweight - CBX 24 at 39.0kgs, CBX 32 at 42.0kgs, CBX 38 at 55.4kgs
- Pre-plumbable fixing jig enables plumbing and testing prior to final fit
- Jig also enables upward pipe runs behind the boiler
- Built in 'easiclean' trap and easily accessible waste pipe connection
- Simple plug-in electrics for easier connection and quick disconnection
- Diagnostic LEDs display 16 different conditions aiding installation and maintenance
- Long flue run capability means flexibility in siting - horizontal 10m, vertical 12m
- Range of special flue kits available for avoiding nuisance plumbing. See rear inside pages

**DHW = Domestic Hot Water



Eden VBX PIPEWORK CONNECTIONS

- Boiler supplied with upward pointing pipe tails on top of boiler
- Downward pointing pipe tails (pre-sealed) positioned for optional downward plumbing (top pipe work may then be used for feed and vent)
- Excellent accessibility to water, gas and electrical connections
- Wall fixing bracket with integral 'bubble vessel' makes boiler location and installation faster and more accurate



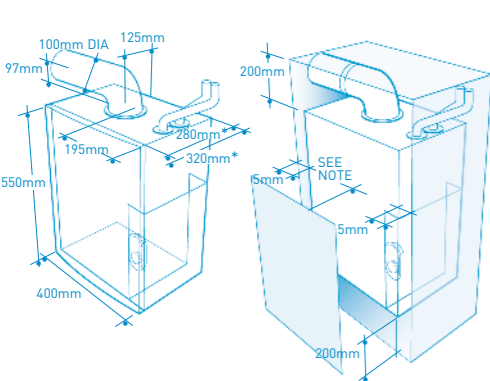
Eden SBX FIXING JIG

- Supplied complete with boiler
- Full height fixing jig with integral 'bubble vessel' enables accurate installation and can conceal upward running pipework
- Enables connection and testing of system prior to final boiler fit - ideal for new build sites
- Secondary return for optional DHW storage tank connection (when SBX's internal diverter valve is used)
- Jig includes pre-plumbable gas cock
- Integral 'bubble vessel' makes boiler location and installation faster and more accurate

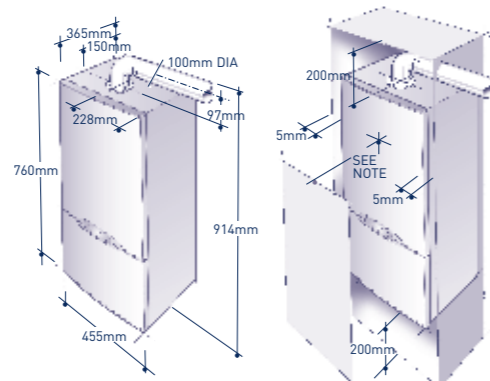


Eden CBX FIXING JIG

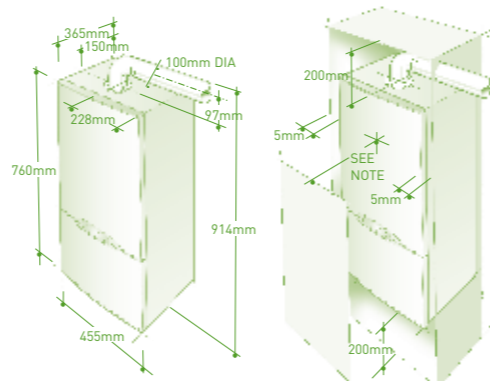
- Supplied complete with boiler
- Full height fixing jig with integral 'bubble vessel' enables accurate installation and can conceal upward running pipework
- Includes filling loop
- Enables connection and testing of system prior to final boiler fit - ideal for new build sites
- Jig includes pre-plumbable gas cock
- Integral 'bubble vessel' makes boiler location and installation faster and more accurate



*Dimensions for VBX 18. Add 45mm for VBX 30.



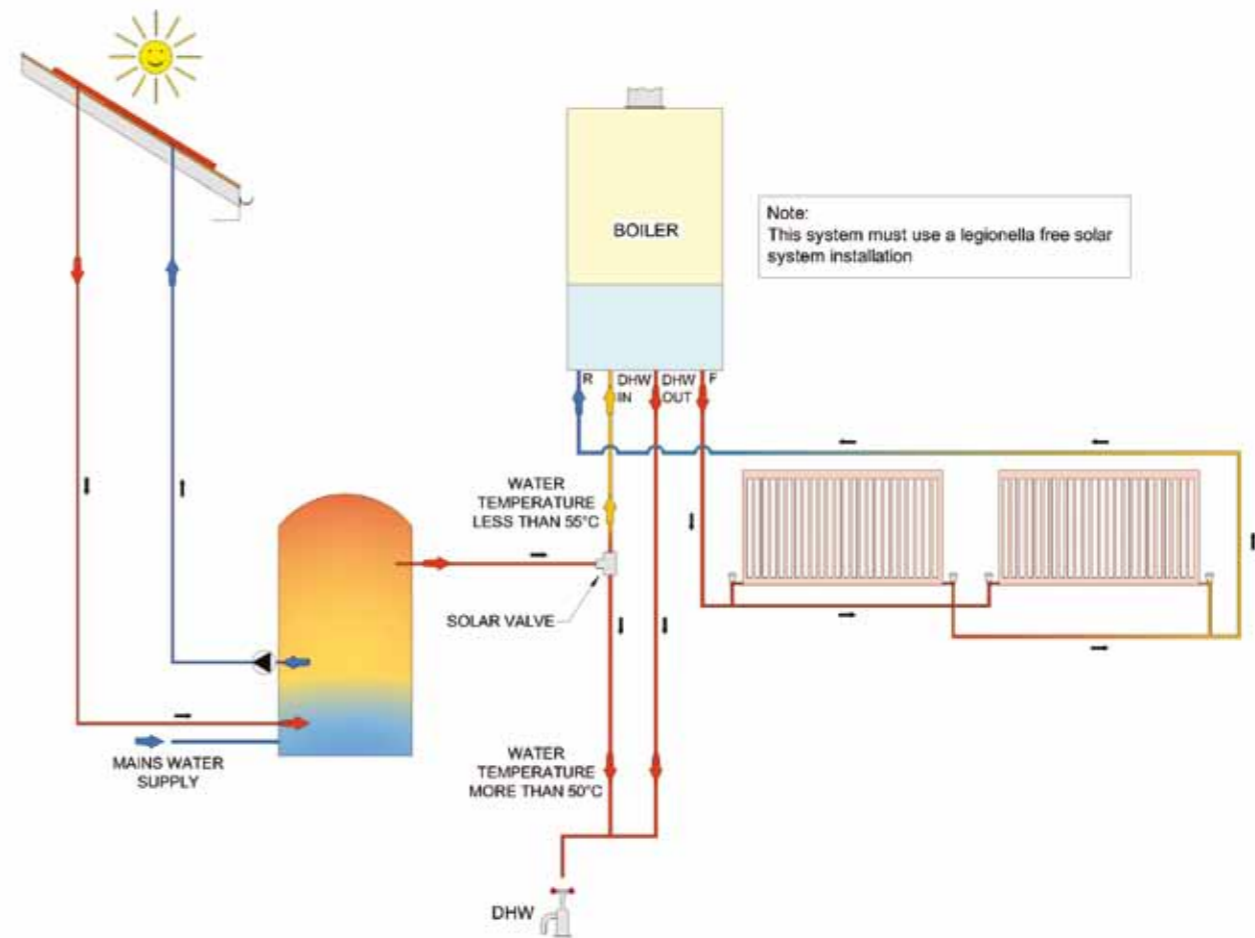
NOTE: 10mm for normal operation. 450mm for installation and servicing.



SOLAR POWER SYSTEMS

THE Eden CBX AND Eden SBX ARE DESIGNED TO BE COMPATIBLE WITH SOLAR POWER. THE FOLLOWING SYSTEM CONFIGURATIONS ARE AVAILABLE:

Eden CBX WITH SOLAR SYSTEM



GENERAL ADVICE TO INSTALLER:

- Suitable for small properties with combination boilers being the prime heat source for DHW
- The CBX is ideal for replacing existing 'old' inefficient combination boilers where space is at a premium
- Note: for new solar installations it is always recommended to fit an Eden SBX Premium Performance Sealed System Condensing Boiler (see overleaf)
- The boilers incoming inlet temperature has to be limited to 55°C by an off-the-shelf blending valve, (i.e. Altecnic solar valve)
- It is important that the solar system is classed or designed as a legionnaire-free system
- The Eden CBX is fitted downstream of the solar tank.
- It is important that the DHW is provided by an internal coil fitted inside the solar tank or an external fitted heat exchanger.
- CH is served by the boiler

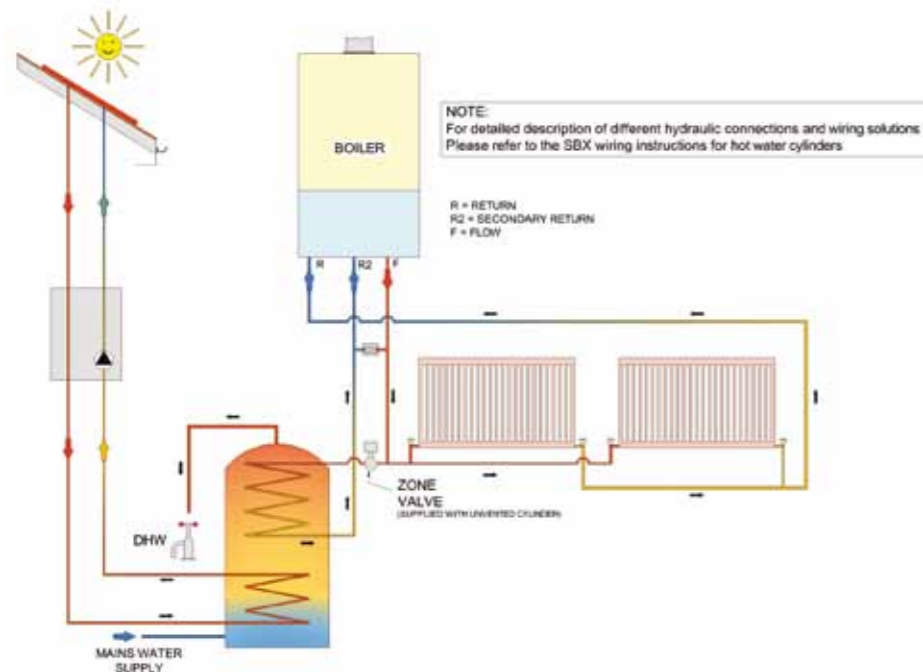
NB. ALTHOUGH PLANNING PERMISSION MAY NOT BE REQUIRED, IT IS ADVISABLE TO SEEK THE OPINION OF THE LOCAL AUTHORITY PRIOR TO COMMENCING WORK ON ANY SOLAR INSTALLATION

GENERAL ADVICE TO CUSTOMER:

- Ensure that the solar system is:
 - Installed by ONE solar qualified person
- Sufficiently protected against frost
- Installed with approved components; seal and gaskets approved to withstand temperatures of <100°C
- It is recommended to have a heat meter fitted to monitor the effectiveness of the thermal solar system over a period of time

Eden SBX

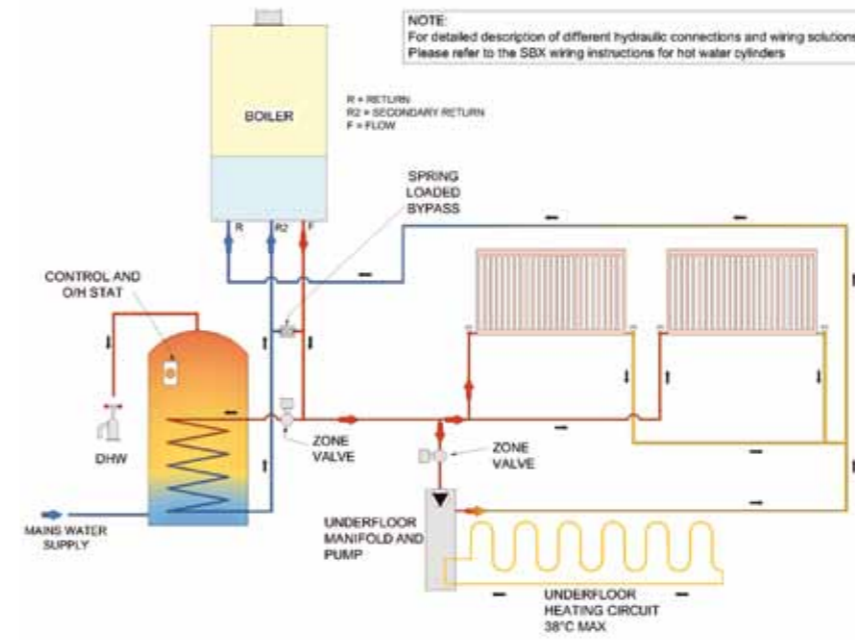
WITH STANDARD THERMAL SOLAR PANELS



- Suitable for standard solar installation where heat is only provided for DHW
- The unvented cylinder includes two coils; one for the primary circuit to the boiler and the second one for the solar circuit
- Most common approach and simplest to install
- Eden SBX provides an already factory fitted diverter valve and secondary return connection. Advantages are:
 - Simple wiring
 - No zone valve or overhear thermostat required (unless required by cylinder manufacturer)
 - No spring loaded by-pass required (depending on whether a zone valve is fitted or not)
 - Dual temperature control – independent control for CH and DHW
- The cylinders store sanitary hot water

Eden SBX

UNDER-FLOOR HEATING SYSTEM

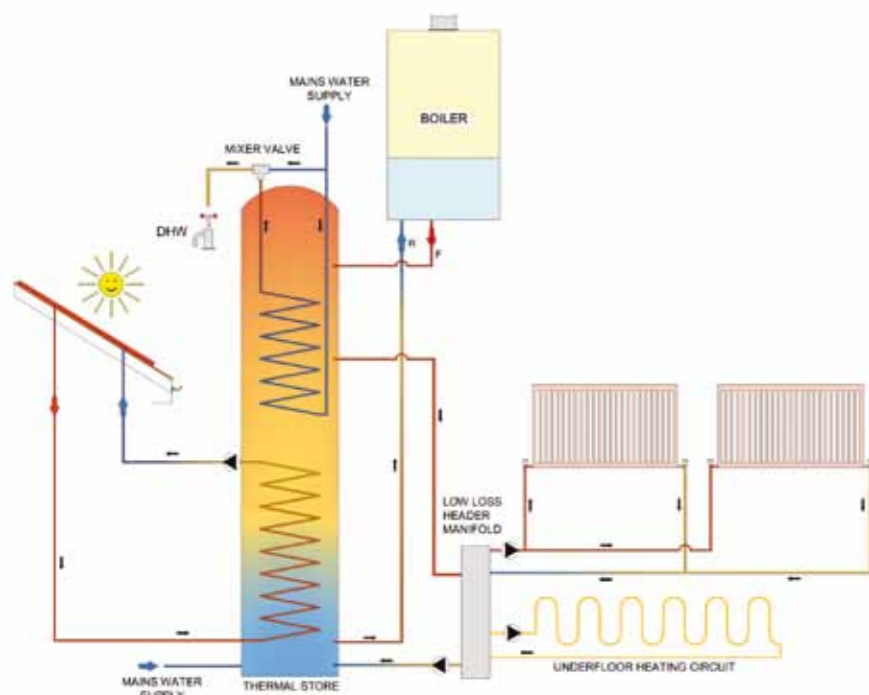


For a modern, efficient heating alternative, the Eden SBX can be installed in conjunction with all under-floor heating.

- The secondary return on the Eden SBX can be utilised for control of the cylinder, which means that DHW temperature can be maintained at around 70°C and the UFH/CH temperature at around 45°C
- As the CH flow temperature is less than 52°C, the boiler will always operate in condensing mode and therefore at its most efficient.
- The wiring for the Eden SBX and under-floor heating system is simple, with details available in the separate wiring instructions booklet.

Eden SBX

AND SOLAR THERMAL STORE



- Suitable for large solar installations where solar provides heat for DHW AND CH
- Thermal store size varies between 200 – 500 litres
- Typical solar area for domestic properties is between 6 to 12m²
- Eden SBX is used to top up the thermal store if solar panels do not provide enough heat to keep store at desired temperature (typically between 70- 85°C)

NB. ALTHOUGH PLANNING PERMISSION MAY NOT BE REQUIRED, IT IS ADVISABLE TO SEEK THE OPINION OF THE LOCAL AUTHORITY PRIOR TO COMMENCING WORK ON ANY SOLAR INSTALLATION

RFTH1 / M

RADIO FREQUENCY WIRELESS PROGRAMMABLE THERMOSTATIC SINGLE CONTROLS

CONTROLS



The RFTHM wireless 24hr mechanical room thermostat is supplied pre-commissioned to make the installation process quick and easy.

The RFTH1 wireless 7 day programmable room thermostat allows the user to pre-set individual room temperature requirements for different periods of the day/week.

FEATURES AND BENEFITS

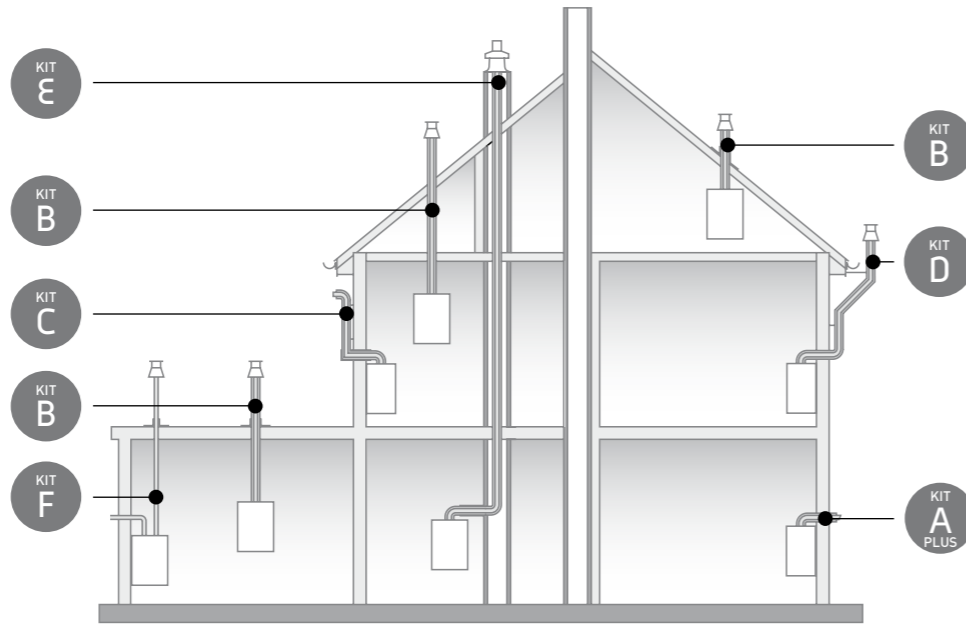
- For use with all Glen Dimplex Combination Boilers
- Includes transmitter and receiver
- No wiring. No Part P compliance issues
- Easy to fit, during installation or retrospectively
- Receiver directly replaces the mechanical clock
- Ideal for heating system upgrades
- Meets best practice installation guide
- Improves heating comfort for the householder

2 YEAR Warranty

Eden X TYPE

FLUE OPTIONS

Eden X Type can be installed in a wide range of domestic applications. In addition to the common horizontal and vertical flue systems familiar to most, we have also developed a range of flue systems designed to overcome the possible nuisance caused by flue plumbing. These kits are detailed below.



FLUE KITS (FOR Eden VBX, SBX AND CBX)

KIT A PLUS TELESCOPIC HORIZONTAL FLUE 956120

Enables boiler to be flued directly through an adjacent wall.

- Comprises 93° flanged elbow, 430mm - 615mm telescopic terminal, internal and external wall seals.
- Standard flue accommodates 700mm from centre of elbow to outside wall.
- Flue extension ducts available in 500mm and 1000mm lengths.
- Maximum horizontal flue length of 10m.
- 45° Plume diverter kit available

KIT B STANDARD VERTICAL FLUE 956081

Enables 100mm diameter concentric flue to be installed vertically through living areas or loft. Takes flue inlet and outlet to roof level to remove plumbing nuisance.

- Comprises vertical turret socket, vertical flue terminal with bracket and pitch roof flashing.
- Standard kit accommodates approximately 600mm - 1140mm from top of boiler to underside of cowling.
- Flue extension ducts available in 500mm and 1000mm lengths.
- Maximum vertical flue length of 12m to underside of cowling.

KIT C RAISED EXTERNAL FLUE OUTLET 956084

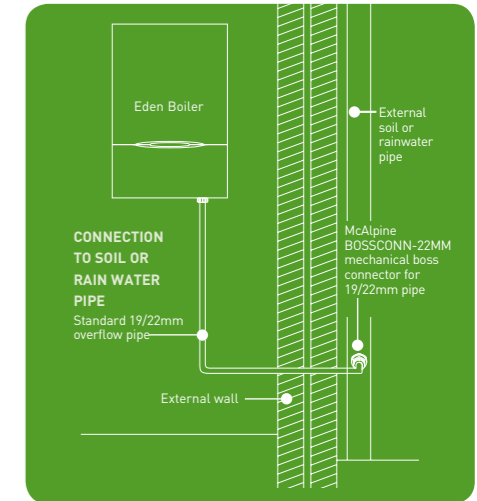
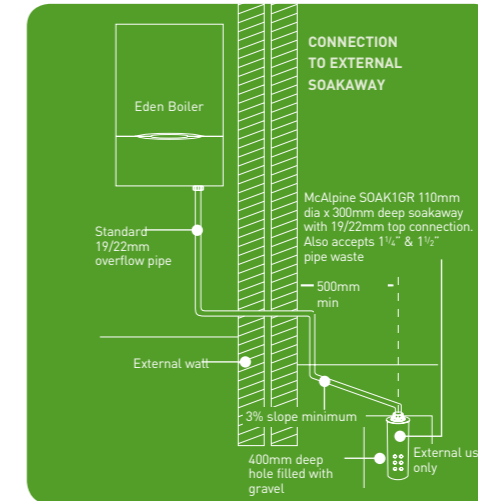
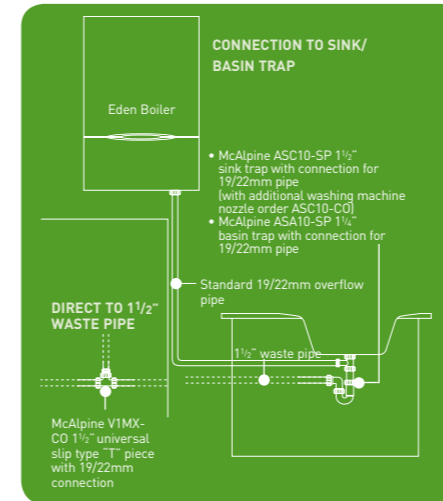
Raises flue outlet point to a level where plumbing nuisance may be avoided. External air inlet point remains at boiler level.

- Comprises 93° flanged elbow, 100mm diameter concentric horizontal duct with air inlet point and 80mm vertical connection, inner and outer wall seals, 80mm diameter vertical extension (1000mm) with bracket and terminal elbow.
- Standard kit accommodates 1100mm from centre of horizontal duct to centre of flue outlet.
- Additional extension ducts available in 1000mm and 2000mm lengths.
- 45° (r* = 500mm) and 93° (r* = 1000mm) bends also available.
- Maximum horizontal length 5m and 1m vertical.
- Maximum vertical length 8.5m and 1m horizontal.

This kit may be fitted retrospectively to boilers with minimal disruption.

DISPOSING OF CONDENSATE

A condensing boiler can produce up to 1 litre of water every hour. It is therefore important that the condensate drainage system is planned for and appropriately positioned.



Waste fittings identified are manufactured by McAlpine & Co. Ltd (tel: 0141 882 3213) and are available from merchants nationwide. These parts are not available from Glen Dimplex Boilers. If condensate is discharged directly into an external gully, it is recommended that the external waste pipe is enlarged to 1 1/4" diameter.

USE OF CONDENSATE PUMPS

In exceptional circumstances, such as when a boiler is installed in a basement without drainage, it may be necessary to install a condensate pump to carry condensate up to ground/drain level. Such products are available from Grundfos Pumps Ltd on: 01525 850000 and Pump House on: 0115 922 2211.

KIT D EXTERNAL VERTICAL FLUE 956085

Enables 100mm concentric vertical flue to be installed on an external wall. Takes both flue inlet and outlet to roof level to reduce plumbing nuisance.

- Comprises 93° flanged elbow, 100mm diameter concentric duct, inner and outer wall seals, 93° inline elbow, flue extension duct (1000mm) with bracket, 2 x 45° elbows and connecting duct, and vertical flue terminal.
- Standard kit accommodates approximately 2.3m from top of boiler to underneath cowling.
- Additional extension ducts available in 500mm and 1000mm lengths.
- 45° (r* = 775mm) and 93° (r* = 1550mm) bends also available.
- Maximum vertical flue length 6.5m to underside of cowling.

This kit may be fitted retrospectively to boilers with minimal disruption.

*Equivalent length of bend, if used, must be deducted from max length.

KIT E CHIMNEY FLUE LINER 956082

Enables boiler to be flued using existing chimney. Ideal for the replacement of chimney flue floor standing boilers. May be installed vertically, directly into chimney or sideways through chimney wall (as illustrated below). Air is drawn from inside the living area (room vent necessary) and flue gases are removed via the chimney flue.

- Comprises 93° flanged elbow, vertical turret socket (optional use), flue duct, chimney access plate, wall access plate, 93° elbow and metal support bracket, chimney centralising bracket (for flexi tube), chimney top connector and terminal. Corrugated 80mm flexible pipe supplied separately in a selection of lengths.
- Choice of 10, 20 or 30m corrugated flexible pipe lengths.
- Maximum flue length 30m.
- Also suitable for vertical flue arrangements.

Note: Mortar flashing on chimney top may require removal.

KIT F SPLIT PIPE VERTICAL FLUE OUTLET 956080

Enables flue outlet to be ducted vertically inside property using 80mm pipe work terminating at roof level to avoid plumbing nuisance. Split pipe system - means 80mm air inlet remains at boiler level.

- Comprises twin 80mm adaptor, 80mm extension pipe (1000mm), horizontal flue terminal (500mm), roof terminal with pitch roof flashing, and air intake duct with inner and outer seals.
- Standard kit accommodates flue outlet length of 2.7m from top of boiler to lead flashing beneath tiles.
- Additional extension ducts available in 1000mm and 2000mm lengths.
- Maximum vertical flue length 30m from top of boiler to underside of cowling.

Note: Not recommended to pipe outlet through living space unless enclosed in vented duct.