

Quinta Ace S

50-150kW

Technical Specification Guide



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Remeha by Baxi,
the expert choice.

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Note: content provided in this document is correct as of publication, subject to change without notice. Please refer to the Installation, & User Manual which can be found at baxi.co.uk/quinta-s. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications and details provided within this document.

Remeha by Baxi, the expert choice.

Complete commercial solutions from the experts in sustainable heating and hot water. Choose Remeha by Baxi Quinta Ace S boilers for your next commercial project. We invest heavily in research and development which enables our specialist teams to design high-performance products at every level.

From using the latest materials and manufacturing techniques to meticulously designing and engineering each boiler, we ensure they're efficient to specify, install, run and maintain. All our boilers share the same simple design – so they're expandable, adaptable and future-proofed.

We're the experts in heating and hot water solutions, built with sustainable technology. Our teams will guide you through the right choices for your commercial heating and hot water project. So from specification to design, through to supply and installation, our customer service and product support are second to none.

Remeha by Baxi Quinta Ace S Range

The new Quinta Ace S is a market-leading series of versatile, wall-hung condensing boilers designed for space heating and indirect hot water production. The Quinta Ace S range is available in 50, 60, 70, 90, 110, 130 and 150kW models.

With their extremely compact design, and featuring a Stainless Steel heat exchanger, the new Quinta Ace S range can be installed individually or as part of a multi-boiler cascade or rig system, for flexible design and reliable, high-quality performance. The Quinta Ace S range is suitable for use on sealed systems.

Features and benefits

Suitable for a wide range of commercial applications

Lightweight stainless steel heat exchanger for reliable and energy efficient heat transfer

Up to 9:1 modulation ratio reducing constant on/off cycling to improve efficiency and boiler longevity

A gross seasonal efficiency of up to 97.3% reduces energy consumption

A low NO_x from 19mg/kWh minimises impact on the environment

Supplied with the latest control board and a state of the art HMI, offering improved control options

0-10 volt connection plus optional Bacnet and Modbus gateways provide a quick and simple interface with BMS

Its very compact design offers 110kW, 130kW and 150kW outputs within the same footprint as our 90kW boiler

Case sizes standardised with the new Aluminium Quinta Ace to use the same optional cascade accessories

1" flow and return connections (50-70kW) avoids major pipework modification

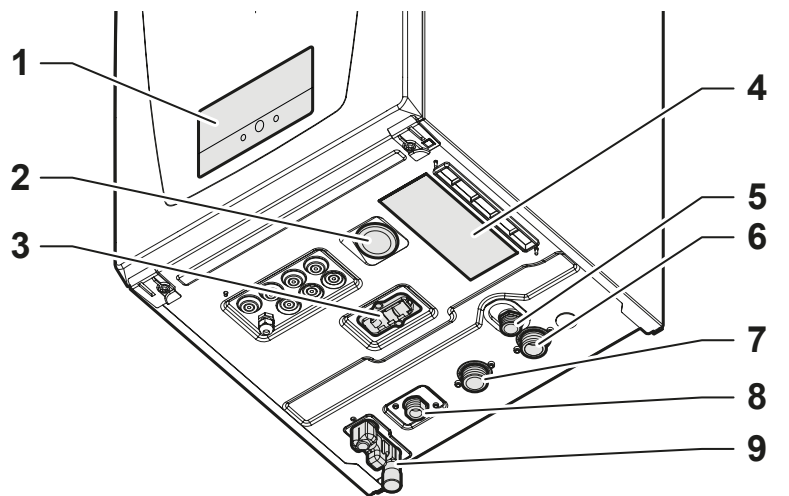
Programmable to work with solar thermal, biomass, buffer tanks and heat pump hybrid control systems for a sustainable, energy efficient solution across the complete range

Seven year parts and labour warranty* for complete peace of mind

* Terms and conditions apply.

Quinta Ace S 50, 60, 70

Boiler construction - Main components

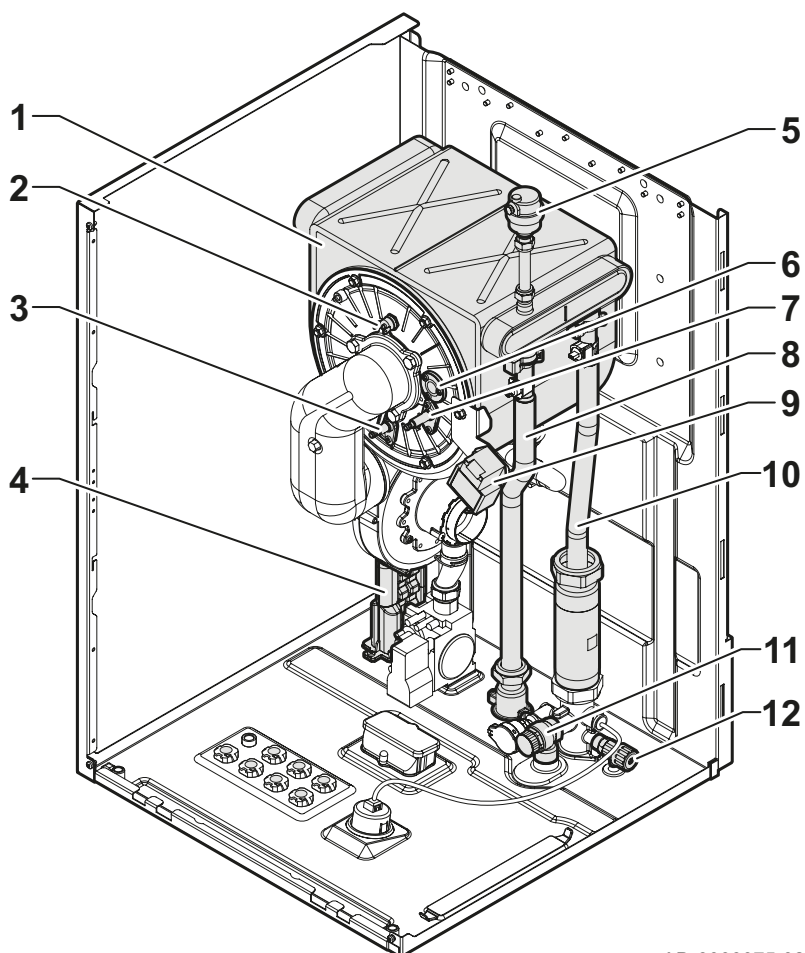


AD-3003369-01

General

Key

1	Control panel
2	Pressure gauge
3	Quick connect
4	Data plate
5	Safety pressure relief valve outlet
6	Return pipe connection
7	Flow pipe connection
8	Gas pipe connection
9	Trap with condensate drain connection



AD-3003075-02

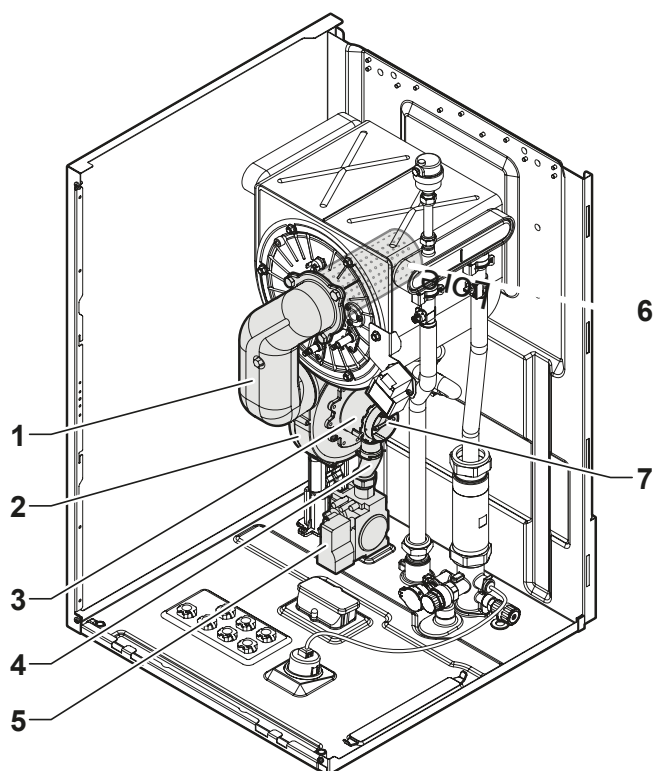
Internal

Key

1	Heat exchanger
2	Heat exchanger thermal switch
3	Ionisation electrode
4	Condensate trap
5	Automatic air valve
6	Flame inspection glass
7	Ignition electrode
8	Flow pipe
9	Ignition transformer
10	Return pipe
11	Safety pressure relief valve
12	Heat exchanger drain valve

Quinta Ace S 50, 60, 70

Boiler construction - Main components

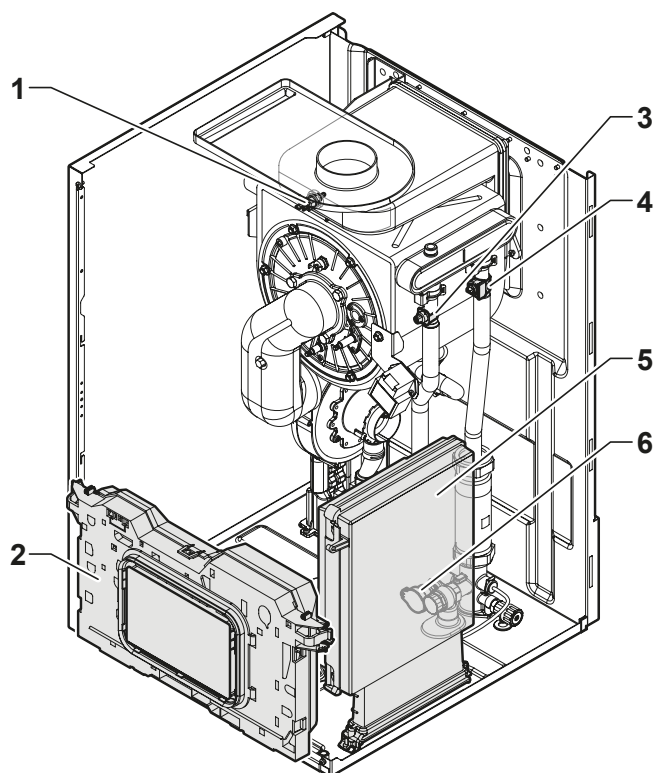


AD-3003076-01

Gas-air

Key

1	Mixing tube
2	Fan
3	Venturi
4	Gas pipe
5	Gas control valve
6	Burner
7	Air inlet



AD-3003077-02

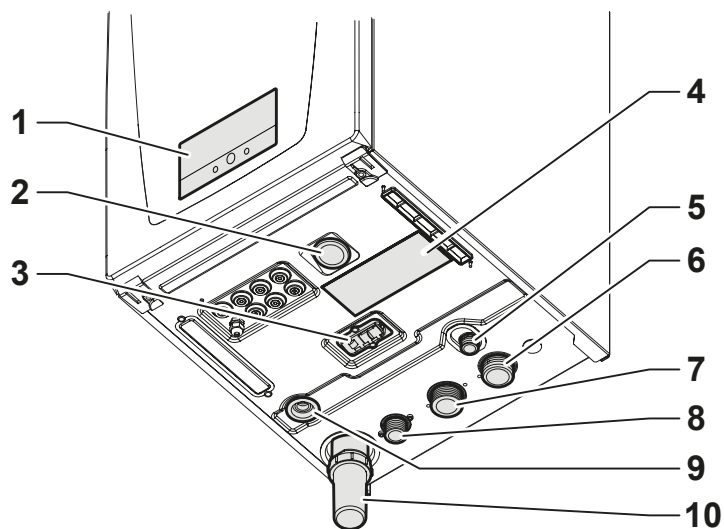
Sensors and boxes

Key

1	Flue gas temperature sensor
2	Control box
3	Flow temperature sensor
4	Return temperature sensor
5	Expansion box (optional)
6	Water pressure sensor

Quinta Ace S 90, 110, 130, 150

Boiler construction - Main components

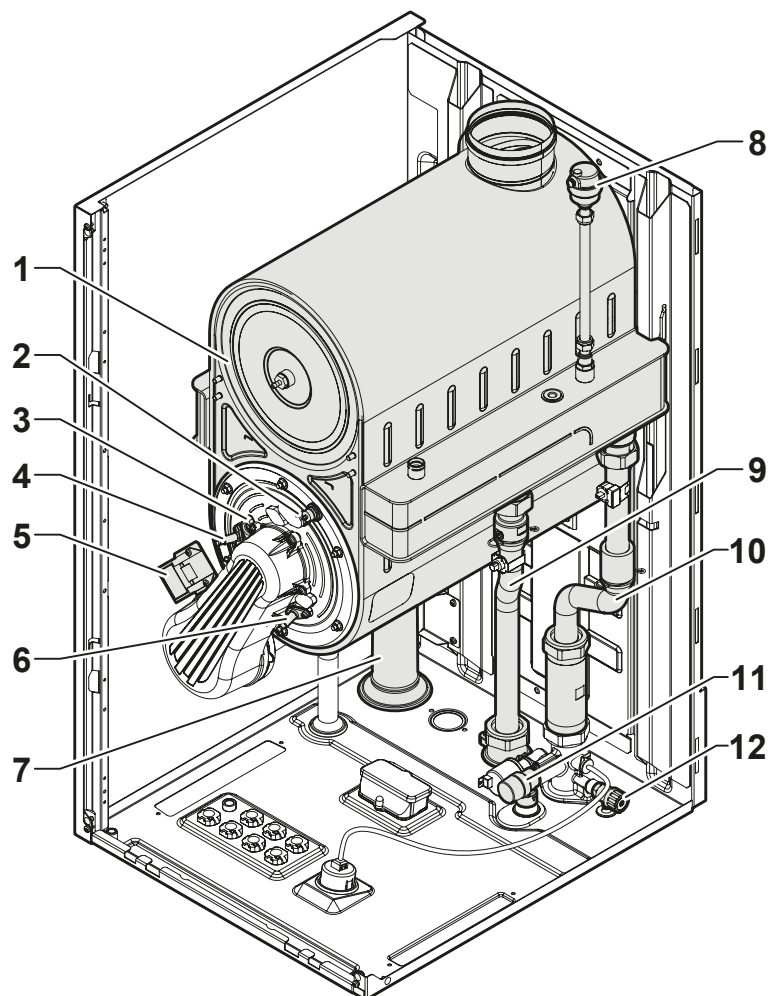


AD-3003370-01

General

Key

1	Control panel
2	Pressure gauge
3	Quick connect
4	Data plate
5	Safety pressure relief valve outlet
6	Return pipe connection
7	Flow pipe connection
8	Gas pipe connection
9	Trap with condensate drain connection
10	Trap bottle



AD-3003210-02

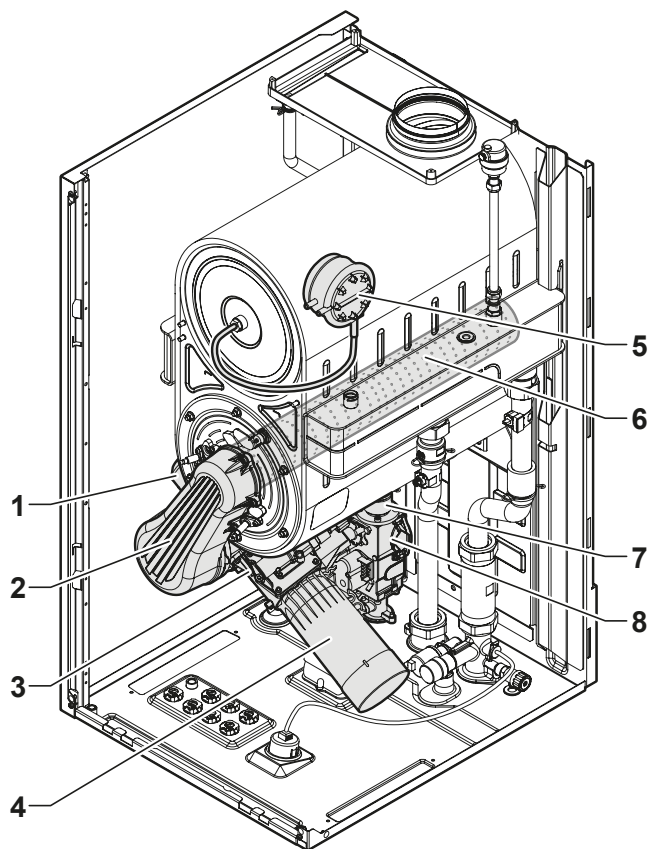
Internal

Key

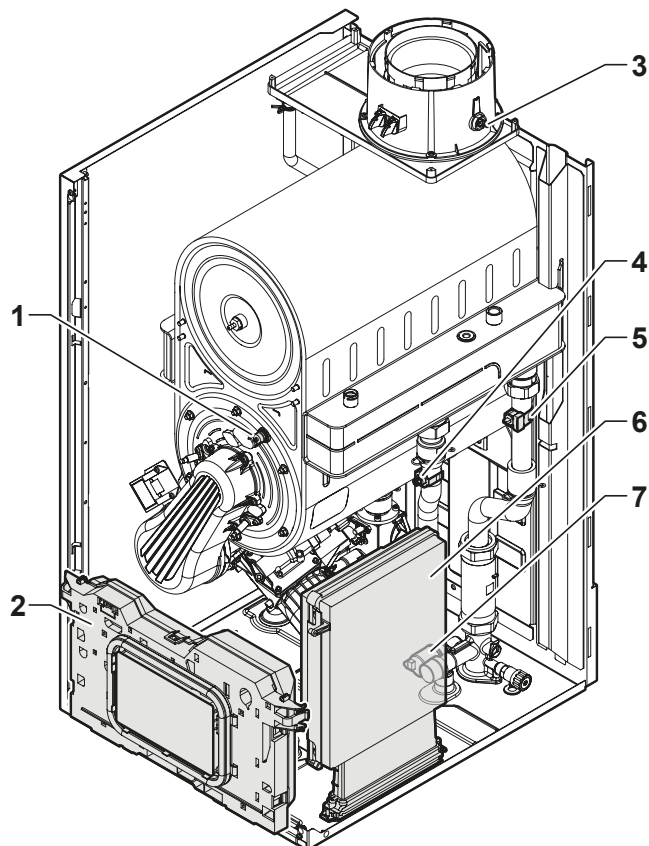
1	Heat exchanger
2	Heat exchanger thermal switch
3	Flame inspection glass
4	Condensate trap
5	Ignition electrode
6	Ionisation electrode
7	Condensate trap
8	Automatic air valve
9	Flow pipe
10	Return pipe
11	Safety pressure relief valve
12	Heat exchanger drain valve

Quinta Ace S 90, 110, 130, 150

Boiler construction - Main components



AD-3003211-01



AD-3003212-02

Gas-air

Key

1	Fan
2	Mixing tube
3	Venturi
4	Air inlet with silencer
5	Air pressure switch (only on boiler types: 130 - 150)
6	Burner
7	Gas pipe
8	Gas control valve

Sensors and boxes

Key

1	Heat exchanger thermal switch
2	Control box
3	Flue gas temperature sensor
4	Flow temperature sensor
5	Return temperature sensor
6	Expansion box (optional) - For the 90 boiler it is located on the left inner side of the casing
7	Water pressure sensor

Quinta Ace S Range

Operating principle

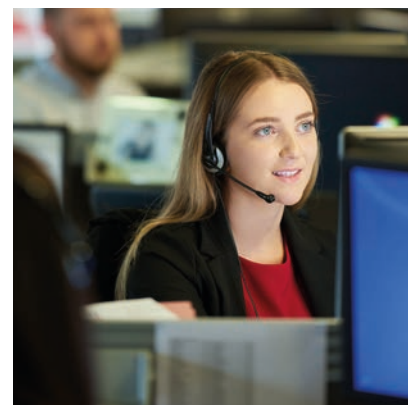
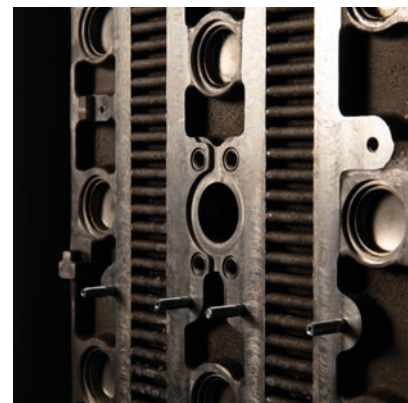
The products of combustion in the form of hot flue gases are forced through the heat exchanger, transferring their heat to the system water. The flue gas temperature is reduced to approximately 5°C above the temperature of the system return water, then discharged vertically via the condensate collector, through the 80/125mm (Quinta Ace S 50, 60, 70) or 110/160mm* (Quinta Ace S 90, 110, 130 & 150kW) combined flue/air connection to atmosphere.

Because of the low flue gas exit temperature, there will be a vapour cloud formed at the flue gas terminal. If the controls allow the flow and therefore return temperature to fall below dew point (55°C), this water vapour will begin to condense out in the boiler, transferring its latent heat into the system water, increasing the output of the boiler without increasing gas consumption. Any condensate which is able to flow back into the boiler, from flue lengths greater than one metre, must be discharged via a condensate collector and drain system fitted within one metre of the boiler flue connection.

Depending on the demand (under the dictates of flow/ return sensor and other external/internal control inputs), the electronic control unit directly monitors the volume of gas and air being delivered to the pre-mix burner. This mixture is initially ignited by the combined ignition/ionisation probe, which then monitors the state of the flame. Should the flame not ignite or be unstable within the pre-set safety time cycle, the controls will shut the boiler down (after five attempts), requiring manual intervention to reset the boiler. The digital display will also indicate a flashing fault code, confirming the reason for the failure.

Combustion air is drawn into the closed air box by a variable speed fan, through the air inlet connection from the plant room (open-flued) or from outside via the concentric flue system (room-sealed). On the inlet side of the fan is a specially designed Venturi which is connected to the outlet side of the gas combi-block.

*110/160 to 100/150 adaptor supplied with the boiler.



Quinta Ace S

Technical information

Quinta Ace S	50	60	70	90	110	130	150
Performance							
Nominal heat output central heating operation @ 80/60°C kW (min-max)*	5.0 – 45.0	6.1 – 55.0	7.2 – 65.0	9.4 – 85.0	20.5 – 102.0	28.4 – 121.5	28.1 – 140.3
Nominal heat output central heating operation @ 50/30°C kW (min-max)*	5.4 – 48.6	6.6 – 59.4	7.8 – 70.2	10.2 – 91.8	22.1 – 110.2	30.6 – 130.6	30.2 – 150.9
Nominal input (Hi) (min-max) kW	5.1 – 46.3	6.3 – 56.6	7.4 – 66.9	9.7 – 87.4	21.0 – 104.9	29.0 – 123.8	28.6 – 143.0
Efficiency							
SBEM seasonal efficiency GCV %	95.3	95.0	94.7	95.1	95.0	96.0	96.0
Efficiency – full load 100% NCV %	97.4	97.2	97.2	97.3	97.2	98.1	98.1
Efficiency – part load 30% NCV %	107.8	107.5	107.1	107.5	107.4	108.6	108.6
Eco design useful efficiency @ 80/60°C (100% full load) GCV %	87.8	87.6	87.6	87.7	87.6	88.4	88.4
Eco design useful efficiency @ 50/30°C (30% part load) GCV %	97.1	96.9	96.5	96.9	96.8	97.8	97.8
Energy labelling seasonal space efficiency GCV %	92	92	92	N/A	N/A	N/A	N/A
ErP efficiency rating	A	A	A	N/A	N/A	N/A	N/A
Annual energy consumption Gj	141	172	203	N/A	N/A	N/A	N/A
Gas							
Standard fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Optional fuel adjustment – see installation and service manual	LPG (Propane)	LPG (Propane)	LPG (Propane)	LPG (Propane)	LPG (Propane)	LPG (Propane)	LPG (Propane)
Min / Max Gas consumption NG m³/h	0.53 – 4.81	0.62 – 5.94	0.79 – 7.35	0.95 – 9.05	2.16 – 10.98	2.94 – 12.66	3.01 – 14.37
Min / Max Gas consumption LPG m³/h	0.21 – 1.84	0.25 – 2.24	0.29 – 2.65	0.49 – 3.37	0.8 – 4.04	1.38 – 4.90	1.36 – 5.67
Min/max gas inlet pressure NG mbar	17 – 30	17 – 30	17 – 30	17 – 30	17 – 30	17 – 30	17 – 30
Min/max gas pressure LPG mbar	37 – 50	37 – 50	37 – 50	37 – 50	37 – 50	37 – 50	37 – 50
Gas connection size BSP inches	3/4" male thread	3/4" male thread	3/4" male thread	1" male thread	1" male thread	1" male thread	1" male thread

Quinta Ace S

Technical information

Quinta Ace S	50	60	70	90	110	130	150
Flue							
Flue diameter mm I/D	80	80	80	110 [#]	110 [#]	110 [#]	110 [#]
Air inlet diameter mm I/D	125	125	125	160 [#]	160 [#]	160 [#]	160 [#]
Min/max flue gas mass flow rate kg/h	7.2 – 75.6	10.8 – 93.6	14.4 – 111.6	18 – 144.0	18 – 169.2	43.2 – 201.6	50.4 – 230.4
Max flue gas temperature °C	92	96	76	70	70	70	70
Max counter pressure Pa	185	175	192	153	190	180	270
Hydraulics							
Water content litres	4	5	6	9	10	10	11
Hydraulic resistance @ 15°C ΔT mbar	836	924	809	667	709	770	924
Hydraulic resistance @ 20°C ΔT mbar	470	520	455	375	399	433	520
Nominal flow rate @ 15°C ΔT l/s	0.72	0.88	1.04	1.36	1.63	1.94	2.24
Nominal flow rate @ 20°C ΔT l/s	0.54	0.66	0.78	1.02	1.22	1.45	1.68
Condensate connection (mm) dia	22	22	22	24	24	24	24
Standard operating temperature °C	20 – 90	20 – 90	20 – 90	20 – 90	20 – 90	20 – 90	20 – 90
Max operating temperature °C	90	90	90	90	90	90	90
High limit temperature °C	110	110	110	110	110	110	110
Max water operating pressure bar	4	4	4	4	4	6	6
Min water operating pressure bar	0.8	0.8	0.8	1	1	1	1
Min operating pressure bar (OV)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[#]110/160 to 100/150 adaptor is supplied with the Quinta Ace S 90, 110, 130 & 150 boilers.

Quinta Ace S

Technical information

Quinta Ace S	50	60	70	90	110	130	150
General							
Total weight (including packaging) kg	43.8	43.8	45.3	97.5	110.6	110.6	113
Min mounting weight without front panel kg	35.5	35.5	37.0	83.1	96.2	96.2	98.6
Dimension mm (WxHxD)	500 x 766 x 560	500 x 766 x 560	500 x 766 x 560	500 x 924 x 631	500 x 924 x 631	500 x 924 x 631	500 x 924 x 631
NO _x Annual Emissions BREEAM EN15502 – NG mg/kWh (dry, 0% O ₂) Class 6**	19	22	22	22	23	19	23
BREEAM Credits**	2	2	2	2	2	2	2
Noise levels dB(A) at 1 metre	53.3	52.6	56.9	56.4	56.8	52.6	56.7
Eco design sound power levels LWA indoors dB	64	63	68	68	68	64	68
Standby heat loss kW	0.089	0.097	0.104	0.050	0.073	0.097	0.121
Electrical							
Nominal power supply	230v x 1ph x 50hz	230v x 1ph x 50hz	230v x 1ph x 50hz	230v x 1ph x 50hz	230v x 1ph x 50hz	230v x 1ph x 50hz	230v x 1ph x 50hz
Power consumption w	21 – 102	19 – 110	19 – 113	17 – 140	21 – 178	20 – 159	22 – 238
Modulating input v dc	0 – 10	0 – 10	0 – 10	0 – 10	0 – 10	0 – 10	0 – 10
Controls voltage (Potential free Contact)	0 Volts	0 Volts	0 Volts	0 Volts	0 Volts	0 Volts	0 Volts
Electrical protection index VAC (1)	X5D	X5D	X5D	X5D	X5D	X5D	X5D

*Gas consumption based on lower heating value under standard heating conditions: T = 288.15K, p = 1013.25mbar. Gag 30.33, G25 29.25, G31 88.00 MJ/m³.

**Two BREEAM credits when the boiler is configured at commissioning, as per commissioning instructions

(1) When installing a boiler with connection type B23, the IP rating of the boiler is lowered to IP20

(#) 110/160 to 100/150 adaptor is supplied with the Quinta Ace S 90, 110, 130 & 150 boilers.

Suggested engineering specification

Construction

The boiler will be a wall-hung type condensing boiler which may also be installed free-standing on a suitable frame. The stainless steel heat exchanger and other major components are contained within a sealed air box. The boiler casing will be complete with a removable front section for maintenance purposes. Electrical and electronic controls will be contained within the instrument panel and electrical housing mounted on the inside right-hand panel.

Hydraulic, gas and flue connections

The combined flue gas outlet and combustion air inlet will be mounted on the top of the boiler, with the flow, return, gas and condensate connections located at the bottom. The boiler will be suitable for room-sealed or open-flue applications. The boiler will be designed for central heating and indirect hot water production up to four bar (50 -70) and 6 bar (90-150). The boiler will be suitable for use on sealed systems.

Operation

The boiler will be complete with a modulating control system that limits the maximum difference in temperature between the heating flow and return and the maximum speed at which the flow temperature increases. The boiler will be complete with a pre-mix burner (NG, NG+H₂ (20%) or LPG) with the gas/air ratio control system controlled internally. An intelligent, advanced boiler control will continuously monitor the boiler conditions, varying the heat output to suit the system load. The control will be able to react to external negative influences in the rest of the system (flow rates and air/gas supply problems), maintaining boiler output for as long as possible without resorting to a lockout condition. Should a negative effect happen in the system, the boiler will reduce its output and/or shut down (shut-off mode), awaiting the negative conditions to return to normal before restarting. The control cannot override the standard flame safety controls. Standard frost protection will activate below 7°C with stage one activating system/shunt pump. Stage two will activate below 3°C with boiler switching on to 10°C flow.

Controls

The boiler will include an "e-Smart" control platform offering improved connectivity using the integral Mk3 controller. The controls package will allow the actual and set values to be read and adjusted on the built-in digital display, which also provides normal operating and fault code indication. The controls will come as standard with the following inputs/outputs:

- 0-10V input (flow temperature or output percentage control)
- DHW temperature input
- High-limit lock out
- Safety/shutdown/release input (blocking)
- Low water protection
- Outside sensor (optional)
- External shunt pump control
- Service report output
- External system pump control
- Fault alarm output
- DHW 3-port valve control or pump
- OpenTherm, R-Bus and volt free enable connection

Features

- Low NO_x
- Fully modulating
- Quiet operation <68dB(A)
- Data file for storing fault/run info
- Automatic maintenance warning
- PC connection
- ErP compliant
- Relay kit (optional)
- Pre-mix burner

The Quinta Ace S 50/60/70/90/110/130/150 boilers conform with the following EC directives:

Gas regulation (EU) 2016/426

Efficiency Directive 92/42/EEC

Electromagnetic Compatibility Directive 2014/30/EU

Low Voltage Directive 2014/35/EU

Ecodesign directive 2009/125/EC

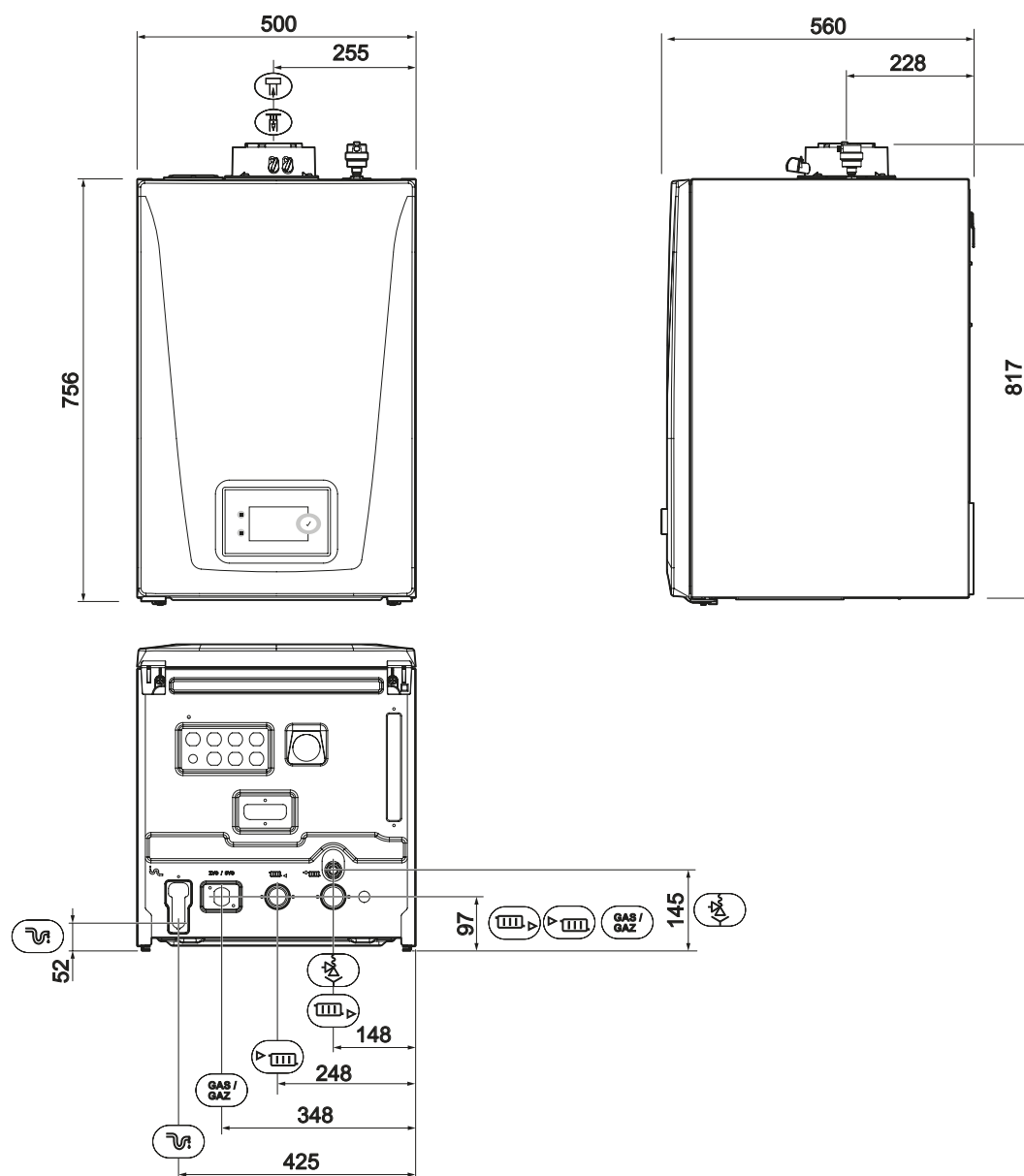
Regulation (EU) No 2017/1369 (for boilers with Power<70kW)








Ecodesign regulation (EU) No 813/2013

Energy labelling regulation (EU) No 811/2013
(for boilers with Power<70kW)

Quinta Ace S 50-70

Dimensions and connections



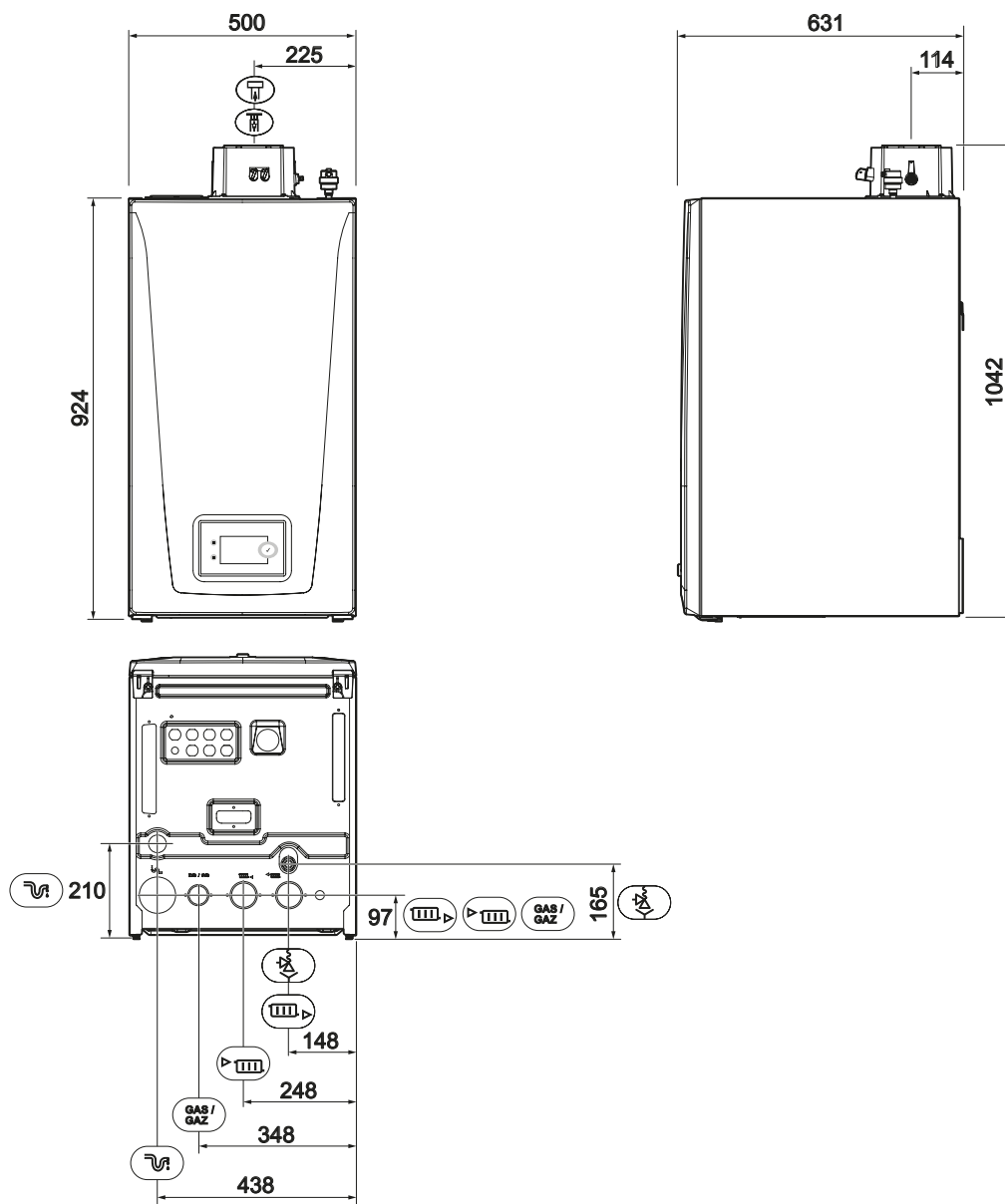
Key	Description	Dimension
	Flow connection	1" male thread
	Return connection	1" male thread
	Gas connection	¾" male thread
	Condensation outlet	Ø 22 mm external
	Safety pressure relief valve outlet	¾" male thread
	Flue gas outlet ⁽¹⁾	Ø 80 mm
	Air inlet ⁽²⁾	Ø 125 mm








(1) This is the inner pipe of the concentric flue gas adapter.

(2) This is the outer pipe of the concentric flue gas adapter.

Quinta Ace S 90-150

Dimensions and connections



Key	Description	Dimension
	Flow connection	1½" male thread
	Return connection	1½" male thread
	Gas connection	1" male thread
	Condensation outlet	Ø 24 mm external
	Safety pressure relief valve outlet	¾" male thread
	Flue gas outlet ⁽¹⁾	Ø 110 mm
	Air inlet ⁽²⁾	Ø 160 mm

(1) This is the inner pipe of the concentric flue gas adapter.

(2) This is the outer pipe of the concentric flue gas adapter.

Please note that a 110/160 to 100/150 adaptor is supplied with the Quinta Ace S 90, 110, 130 & 150 boilers.

Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation and controls

General

Remeha by Baxi Quinta Ace S 50, 60, 70, 90, 110, 130, 150 boilers are supplied as standard with electronic control and flame ionisation safety controls, with a specially designed microprocessor at the heart of the control system.

Specifications

Electrical supply

Remeha by Baxi Quinta Ace S 50, 60, 70, 90, 110, 130, 150 boilers must have a permanent 230V/50Hz single phase supply rated at 1.6 amps. The control unit is not phase/neutral sensitive.

Control box

- Manufacture: SIT
- Model: CU-GH20
- Supply voltage: 230V/50Hz
- Pump run on (HTG): 1-99 minutes

Fuse specification

The boiler is protected by fuses:

- Main Fuse F1 (230 VAC) 1.6 amps
- Fan 230V

Boiler temperature control

Remeha by Baxi Quinta Ace S range has electronic temperature control with flow and return temperature sensors. The flow temperature can be adjusted between 20 and 90°C.

High limit temperature control

The high limit temperature protection device switches off and locks out the boiler when the flow temperature exceeds the high limit set point (set by boiler type). When the fault is corrected the boiler can be restarted by using the reset key on the control panel.

Low water protection (low and content)

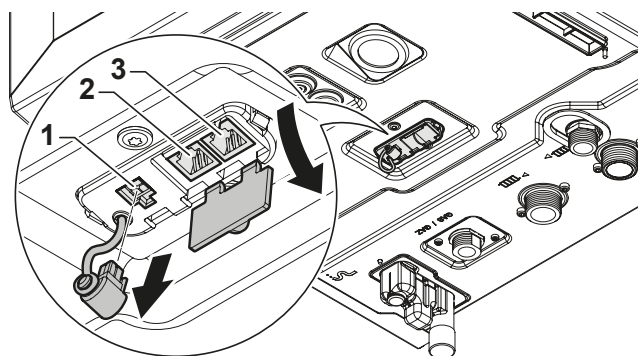
The Remeha by Baxi Quinta Ace S range is supplied with a low water protection on the basis of a low water pressure switch and also by temperature measurement. By modulating down at the moment that the water flow threatens to fall too low, the boiler is kept operating for as long as possible.

External connections

All external connections are made to the connections board supplied as standard and depending on the type of control required optional PCB's are also available.

The boiler is also supplied with Quick Connect sockets located on the outer casing to the underside of the appliance.

The Quick Connection location



The Quick Connect has L-Bus and S-Bus sockets for external connections. You can easily connect external devices and other appliances without opening the boiler:

L-Bus socket for a 4 pin Molex Micro-Fit plug

S-Bus socket for a RJ12 plug

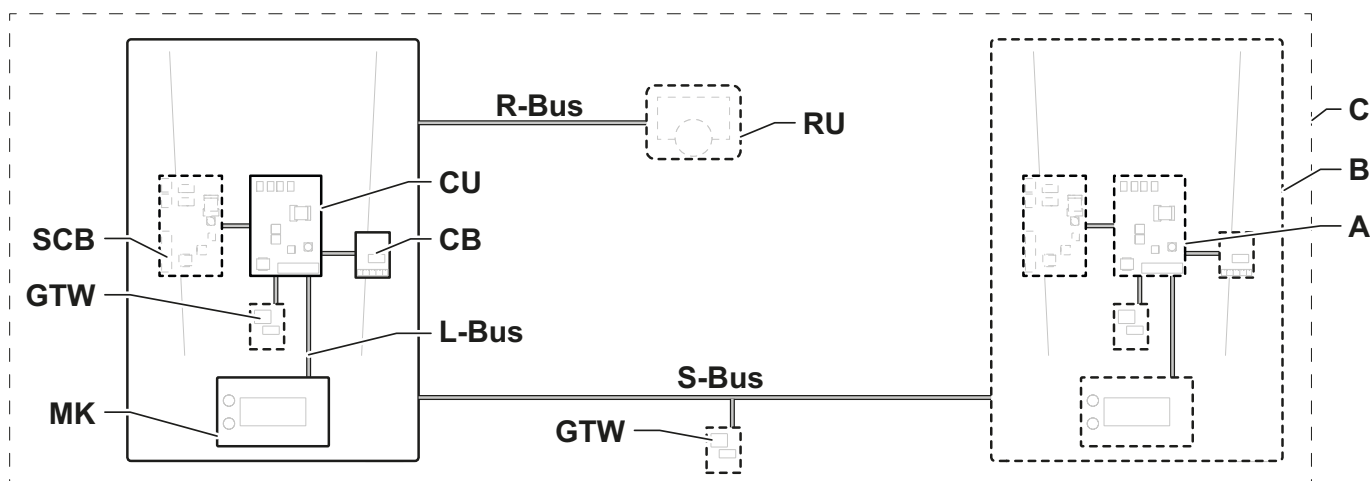
S-Bus socket for a RJ12 plug

Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation and controls

Introduction to the BDR new controls platform

The Quinta Ace S boiler is equipped with the BDR CBCI controls platform. This is a modular system, and offers compatibility and connectivity between all products that make use of the same platform.



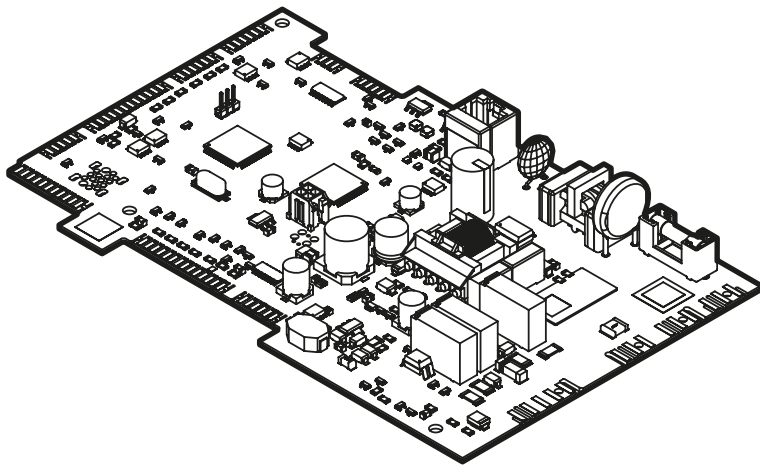
Components within the example above

Item	Description	Function
CU	Control Unit: Control unit	The control unit handles all basic functionality of the appliance.
CB	Connection Board: Connection PCB	The connection PCB provides easy access to all connectors of the control unit.
SCB	Smart Control Board: Expansion PCB	An expansion PCB provides extra functionality, like an internal calorifier or multiple zones.
GTW	Gateway: Conversion PCB	A gateway can be fitted to an appliance or system, to provide one of the following: <ul style="list-style-type: none">• Extra (wireless) connectivity• Service connections• Communication with other platforms
MK	Control panel: Control panel and display	The control panel is the user interface to the appliance.
RU	Room Unit: Room unit (for example, a thermo stat)	A room unit measures the temperature in a reference room.
L-bus	Local Bus: Connection between devices	The local bus provides communication between devices.
S-bus	System Bus: Connection between appliances	The system bus provides communication between appliances.
R-bus	Room unit Bus: Connection to a room unit	The room unit bus provides communication to a room unit.
A	Device	A device is a PCB, control panel or a room unit
B	Appliance	An appliance is a set of devices connected via the same L-bus
C	System	A system is a set of appliances connected via the same S-bus

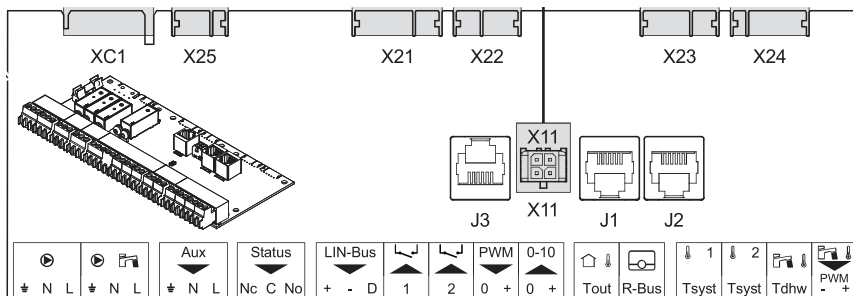
Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation and controls

Main Control Unit CU-GH20 PCB is included as standard



The Connection Board CB-25 is also included as standard, providing multiple inputs & outputs (some configurable), to provide status, pump control on/off, OpenTherm or 0-10v control based on either analogue temperature or percentage output control.



Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation

Boiler controls

The Quinta Ace S range can be controlled using a number of methods – some examples are given below. Scheduling uses the integral Mk3 controller in conjunction with the recommended outside/room/DHW sensor when connected to the CB-25 connection board. Please contact our sales or technical departments for further options.

Modulating (two-wire control)

When using the optional Remeha by Baxi compensating controllers, the heat output modulates between the minimum and maximum value on the basis of the boiler flow temperature sensor. This applies to both single and multiple boiler installations, under the dictates of a room and/or outside temperature sensor.

iSense Pro: multi-boiler multi-zone optimising/compensating

This controller can control up to ten boilers, two heating zones either VT or CT and one domestic hot water circuit. Information on the iSense Pro controller can be obtained from the installation manual and the suggested wiring and controls schematics for the controller. Also, it can be used as a boiler sequencer with a 0-10V dc analogue input signal from a remote BMS controller, managing a primary or secondary heating circuit with up to ten boilers. The control is temperature dependent only, i.e. 5V = 50°C flow temperature providing lead/lag control, subject to the settings within the controller.

iSense controller

Single-boiler (option for multiple-boiler) single-zone optimising/compensating controller.

Remeha by Baxi MC4

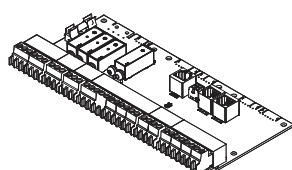
In conjunction with the iSense controller, the Remeha by Baxi MC4, can provide step control for multi-boiler installation of up to four boilers.

Connecting a third party control unit to a standard board

On/off or OpenTherm [volt free control from a third party controller]

Connect a two-wire cable to terminal R-Bus which must be a volt free connection from the third party controller.

On/off or OpenTherm Control [0 Volts]



On / Off Control

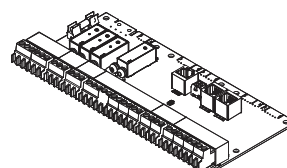


Located -
CB-25 Connection
PCB

Analogue control (0-10V dc)

The heat output modulates between the minimum and the maximum values on the basis of the voltage supplied by an external analogue (0-10V) input.

0-10V control to provide either temperature or capacity based analogue output



Analogue Temperature
/ Percentage Output



Located -
CB-25 Connection
PCB

Analogue output - temperature control

The 0-10V signal controls the boiler flow temperature between 0°C and 90°C. This control modulates on the basis of the flow temperature, whereby the heat output varies between the minimum and maximum values according to the flow temperature set point calculated by the controller sent by the BMS, e.g. 6.4V = 64°C.

Input signal (V)	Temperature(°C)	Description
0 – 1.5	0 – 15	Appliance off
1.5 – 1.8	15 – 18	Hysteresis
1.8 – 10	8 – 100	Targeted temperature

Analogue output - capacity control (%)

The 0-10V signal controls the boiler output between 0% and 100% of its total capacity (kW). The minimum and maximum values are limited. The minimum output is linked to the boilers modulation depth. The output varies between the minimum and maximum value on the basis of the value determined by the controller.

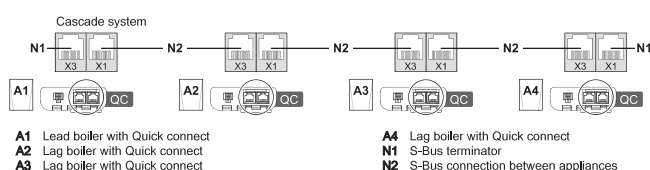
Input signal (V)	Heat output (%)	Description
0 – 2.0	0	Appliance off
2.0 – 2.2	0	Heat demand
2.0 – 10	0 – 100	Targeted heat output

Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation

Cascade system

This option makes it possible to link up to four boilers in a cascade system. You can link the boilers without the need for an external cascade manager or expansion boards. The S-Bus connections can be made externally on the Quick Connect. For more than four boilers in a cascade system, you will need to use an external cascade manager or expansion PCB's. Multiple zones are only possible with an expansion PCB, eg. SCB-10.



Configurable input and output

This option makes it possible to configure the input and output connectors. Depending on the desired system, you can select and combine the available configurations. You can change the behaviour of the connectors with a parameter setting.

LIN-Bus

This option makes it possible to connect a LIN pump. The LIN-Bus protocol gives you more insight about the performance, diagnostics and failure detection of the pump.

Domestic Hot Water

This option makes it possible to connect a DHW cylinder. Depending on the desired DHW system, you can connect different types of pumps and sensors. The combination of the extended connections and software features gives you more options as standard.

Optional gateways

ModBus - Communications

The GTW-08 gateway is designed to operate as a communication interface between a heating and/or cooling appliance and the building management system (BMS) based on communication protocol ModBus®. This kit offers an easy solution to connect or monitor our appliances in the following ways:

- To connect BDR appliances to BMS
- To control the appliances (set heat demand)
- To monitor the appliances (data reading)

BACNet - Communications

The GTW-21 gateway is designed to operate as a communication interface between a heating and/or cooling appliance and the building management system (BMS) based on communication protocol BACNet®. This kit offers an easy solution to connect or monitor our appliances in the following ways:

- To connect BDR appliances to BMS
- To control the appliances (set heat demand)
- To monitor the appliances (data reading)

Quinta Ace S 50, 60, 70, 90, 110, 130, 150

Electrical installation

Priority DHW control

Temperature control

With a Remeha by Baxi temperature sensor or with a standard (volt free) DHW thermostat.

Note: It will only provide a setting and read-out facility when the sensor option is used.

Primary flow control

- With a three-way diverting valve (not QA S 90/110/130/150)
- With a DHW pump
- DHW time program (available 24 hours a day)

System/shunt pump

A shunt pump can be connected to the boiler (maximum power consumption 300VA). If the pump requires more than this, terminals can only be used to switch a pump relay. The pump should be fitted on the heating return connection and be as close to the boiler as possible. A system pump can also be connected to the boiler via the status connector on the CB-25 connection board.

System water

Before operation, the system should be cleaned and flushed (according to BS 7593 2006), and filled with mains cold water. Suitable chemicals and their use should be discussed with specialist water treatment companies in respect to aluminium heat exchangers. For further information please visit baxi.co.uk/quinta-s and refer to "Baxi Water Quality Regulations". The recommendations in the document must be followed.

Frost protection

Install the boiler in a frost-free room. The built-in frost protection system is activated as follows: below 7°C – system/shunt pump is switched on if connected to the boiler. Below 4°C – boiler is switched on; when the flow temp reaches 10°C the burner / boiler shuts down and the pump continues to run for a short period then stops.

Note: This control is designed to protect the boiler – for full system protection use a frost thermostat or a weather compensator.

Remote alarm and boiler run indication

As standard, the boiler is supplied with the integral CB-25 connection board. This has two potential-free contacts, Status/Aux Connectors, which can be configured as required. Depending on the setting, a common alarm and boiler run signal can be transmitted by the boiler.

Safety interlocks

As standard, the boiler is supplied with shutdown and release digital inputs via the configurable DI.1 and DI.2 connectors on the CB-25 connection board.

Quinta Ace S

Flue options

The Quinta Ace S range of condensing boilers has fan-assisted flues. They are supplied as standard with a concentric flue outlet/air inlet connection which is used for room-sealed operation or for open-flue (room ventilated) applications. An optional twin pipe fitting is available for the room-sealed CLV system.

The concentric system can be supplied for individual boilers for horizontal or vertical installation. Because of the excess fan capacity of the boiler, most flue lengths can be accommodated (depending on the boiler model and actual route taken), which enables the installer to position the boiler almost anywhere in the building.

Open-flue, or room ventilated systems can be installed as individual or combined flues and should discharge vertically with the flue terminating in an optional tapered cone complete with bird guard.

Care should be taken when siting the actual discharge point as a vapour plume will be visible when the boiler is operating (maximum flue gas exit temperature will be less than 75°C) and it is possible for water to drip to the ground from the terminal on horizontal installations, which could turn to ice in freezing conditions.

Guidelines

Refer to latest relevant British Standards:

- Ref BS 5440 – 2: Specification for installation and maintenance of ventilation for gas appliances not exceeding 70kW (1st, 2nd and 3rd family gases)
- Ref BS 5440 – 1: Specification for installation of gas appliances to chimneys and for maintenance of chimneys not exceeding 70kW (1st, 2nd and 3rd family gases)
- Ref BS 6644: Specification for installation of gas-fired hot water boilers of rated inputs between 70kW to 1.8M (net) (2nd and 3rd family gases)
- Ref IGE/UP/10: Installation of flued gas appliances in industrial and commercial premises

It is the responsibility of the installer to install the flues and fluecades to comply with the current regulations and standards.

Important note

All flue terminals and CLV kits can be supplied with a condensate drain/siphon, this must be connected within one metre of the boiler flue connection. Any condensate which is able to flow back into the boiler from flue lengths greater than one metre must be discharged via a condensate collector and drain system fitted within one metre of the boiler flue connection. Make sure that any flue gas outlet pipe towards the boiler has a sufficient gradient (at least 50mm per metre) and that there is a sufficient condensate collector. Where boilers have been installed on a common open-flue system, condensate collectors and drain systems must be fitted on each individual boiler directly above the boiler flue connection. Condensate siphons must be deep seal water type with discharge taken to a suitable drain point.

Further information regarding flue with dissimilar metals can be found in BS6644 – 2011 Section 6.10.4.

- Concentric room-sealed flue components should not be mixed with single wall flue components
- Flue components are constructed from a white painted metal outer and plastic inner
- Flue terminals are painted as detailed in the terminal diagrams
- Plume kit external components are aluminium or plastic and are painted black
- All flue components are CE approved

Quinta Ace S

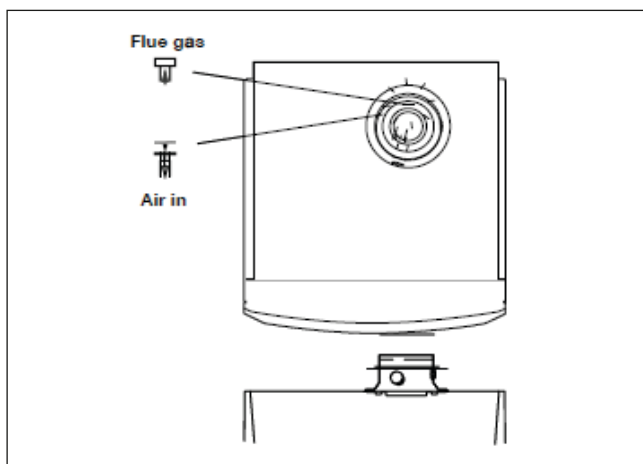
Flue outlet/air inlet details

The Quinta Ace S range of boilers are supplied as standard with a concentric flue outlet/air inlet connection which can be used for:

1. Room-sealed operation using the concentric flue system (flue within air duct).

Details of inlet connection

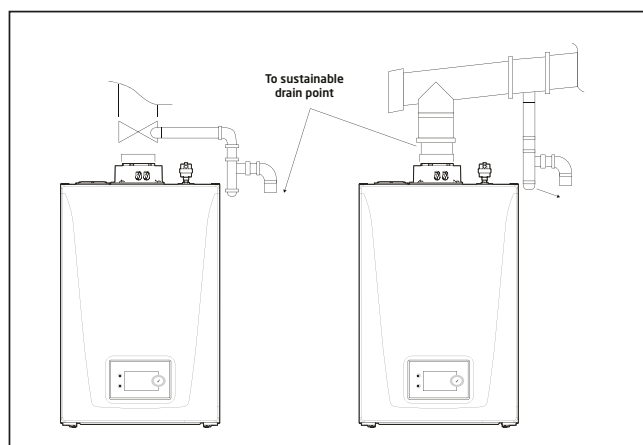
This shows the concentric flue connection used for room-sealed operation and an option using single skin is available.



2. Conventional/open-flue operation using single skin flue system connected to the inner concentric connection with the air supply taken from the boiler house via the outer concentric connection.

Details of condensate drain

In order to prevent the spilling of combustion products a condensate trap (not supplied) must be fitted on the plastic drain connection on the condensate drain, which is available as an option with horizontal and vertical flue terminals.



Note: The condensate trap should be as close as practical to the condensate outlet and the trap and pipework should be adequately supported.

Quinta Ace S 50, 60, 70kW

Room sealed 80/125mm horizontal concentric flue kit option QP01

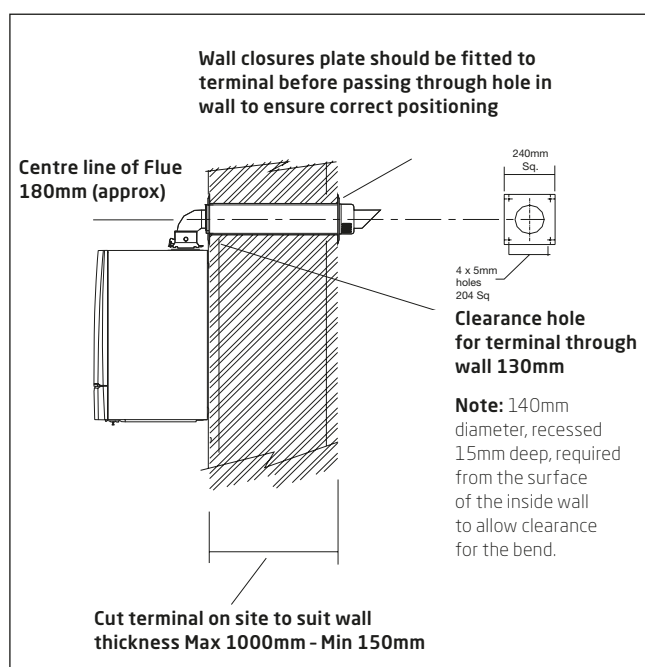
For use when the boiler/s are mounted on and flued through a rear outside wall, and for a typical single boiler installation. It can also be used for multiple boilers but each must have its own flue system and terminals positioned at a minimum of 530mm centres and never installed immediately above another. For two boilers only, it is also possible to install the external terminal wall plates touching each other.

Horizontal flue kit 80/125mm

Kit parts - MG410082982 (max wall thickness 500mm)

- 1 x horizontal terminal

Note: Boiler bend and wall plate are included.

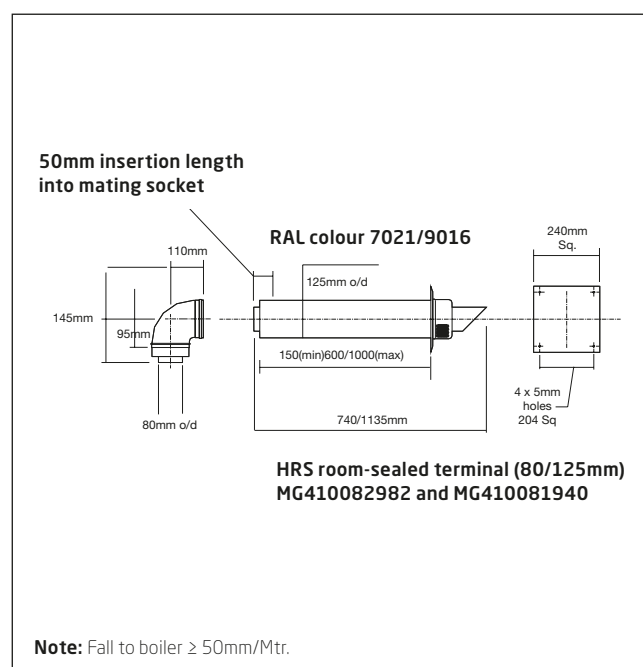


Extended horizontal flue kit 80/125mm

Kit parts - MG410081940 (extended version max wall thickness 1000mm)

- 1 x horizontal terminal

Note: Boiler bend and wall plate are included



Quinta Ace S 50, 60, 70kW

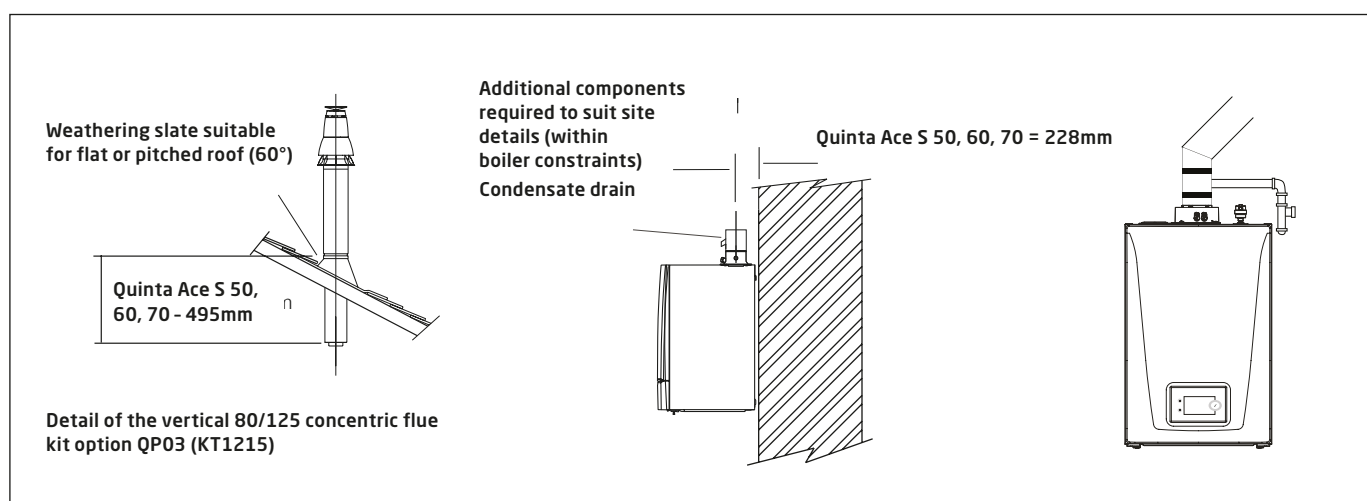
Room sealed 80/125mm vertical concentric flue kit option QP03

For use when the flue is discharged vertically through the roof, and for a typical single-boiler installation. It can also be used for multiple boilers, but each must have its own flue system and terminals separated by a minimum of 300mm if it is at the same height. Refer to the relevant British Standard if this is not the case.

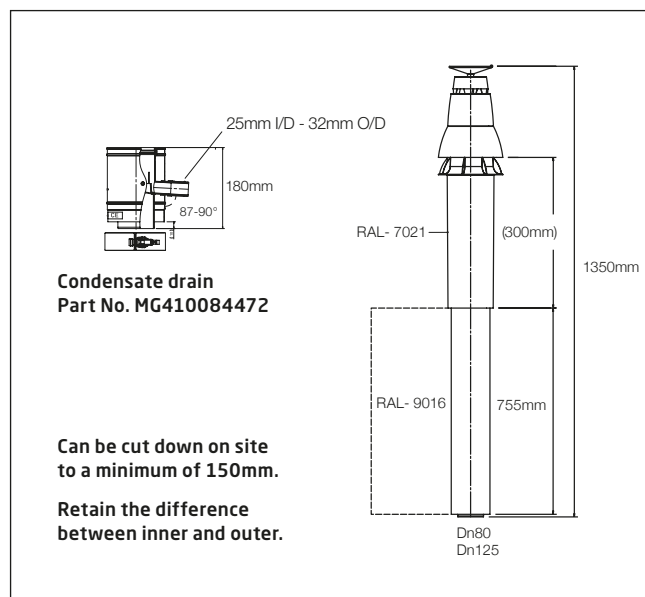
Concentric vertical flue kit 80/125mm Vertical flashing detail

Kit parts - KT125 (max wall thickness 500mm)

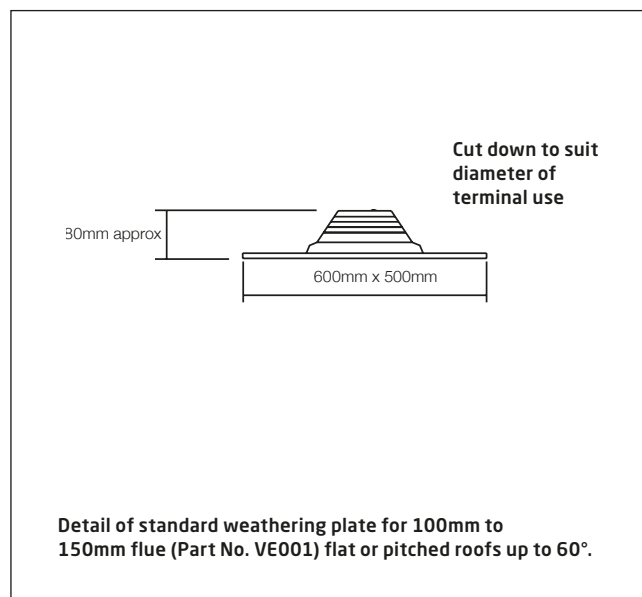
- 1 x vertical terminal – MG10086864
- 1 x universal roof seal pack – VE001



Concentric vertical flue kit 80/125mm



Vertical flashing detail



Quinta Ace S 50, 60, 70kW

80/125mm Vertical room sealed calculated data to determine maximum flue runs

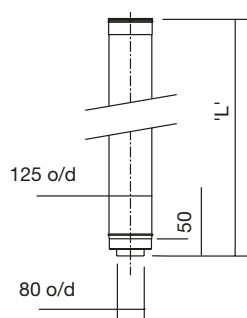
Calculation data based on flue products supplied by Remeha by Baxi

Room Sealed Calculation Data		Quinta Ace S 50 - 80/125mm	Quinta Ace S 60 - 80/125mm	Quinta Ace S 70 - 80/125mm
Maximum overall flue run	Metres	20	13	10
Reduction length for each 45° bend	Metres	1	1	1
Reduction length for each 90° bend	Metres	2	2	2
Maximum horizontal flue run	Metres	6	6	6

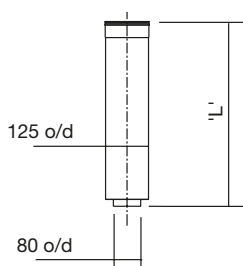
Note 1: Minimum fall back is 2° or 50mm per metre.

80/125mm concentric flue system components for room-sealed operation

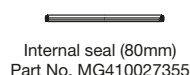
Note 2: The components listed below are not for external use.



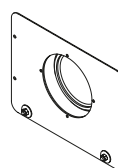
Standard length (cannot be cut)
'L' = 1000mm Part No. MG410084486
'L' = 500mm Part No. MG410084485



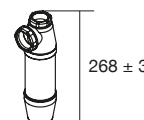
Standard length (cuttable length)
'L' = 1000mm Part No. MG410082314
'L' = 500mm Part No. MG410082313



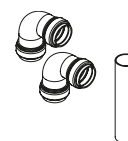
Internal seal (80mm)
Part No. MG410027355



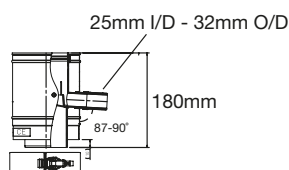
Internal wall plate
Part No. MG410081302



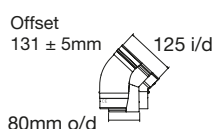
Siphon
Part No. MG410081165



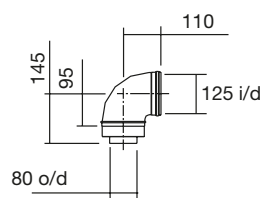
Siphon adaptor kit
Part No. MG410087491



Condensate drain Part No. MG410084472



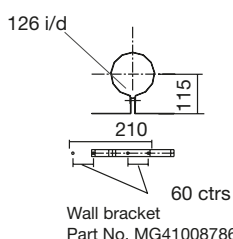
45° Bend
Part No. MG410084461



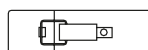
90° Bend Part No. MG410084460
90° Boiler short bend Part No. MG410084810



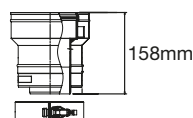
Extended wall bracket
Part No. MG410084481



Wall bracket
Part No. MG410087863



Clamp band
Part No. MG410087654
(one supplied with each component except MG410084810)



80/125mm - 100/150mm
Concentric adaptor
Part No. MG410084475

Note 3: All dimensions are in mm.

Quinta Ace S 50, 60, 70kW

Room sealed, 100mm two zone CLV flue kit option QP04

Connections in areas of different pressure (C53)

Combustion air supply and combustion gas discharge are possible in various pressure zones, semi-CLV system, with the exception of coastal areas. The maximum permissible difference in height between the combustion air supply and the combustion gas discharge is 36m.

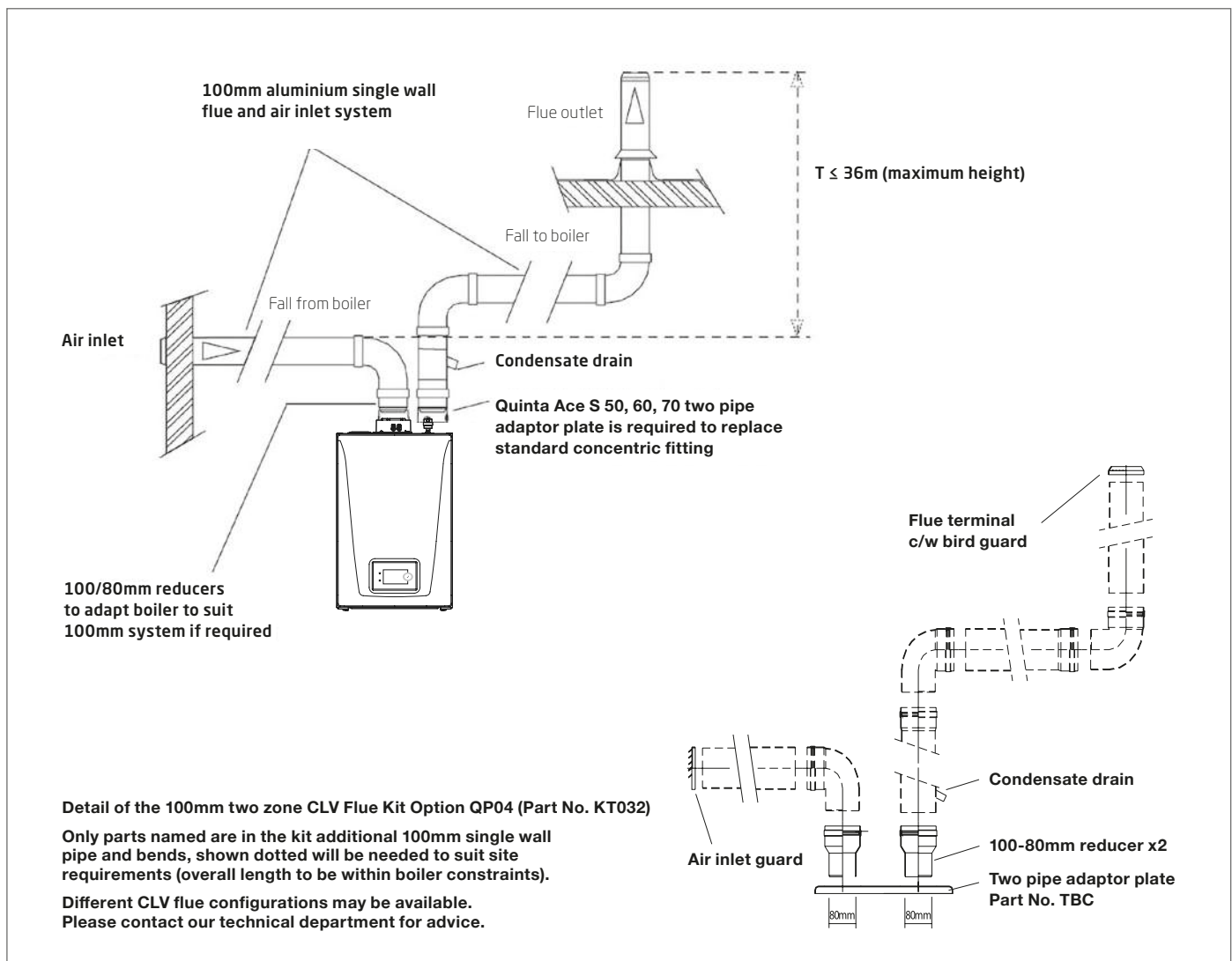
Kit parts - K1032

- 1 x flue connection – S100250
- 2 x flue adaptor 80/100 – MG87127
- 1 x flue terminal – MG015084012

CLV flue kit 100/100mm

- 1 x air inlet – MG410081754
- 1 x condensate drain – MG410085130
- 1 x siphon – MG410081165
- 1 x condensate adaptor kit – MG410087491

CLV flue kit 100/100mm



Note 1: Maximum combined length of air intake and flue is 40m.

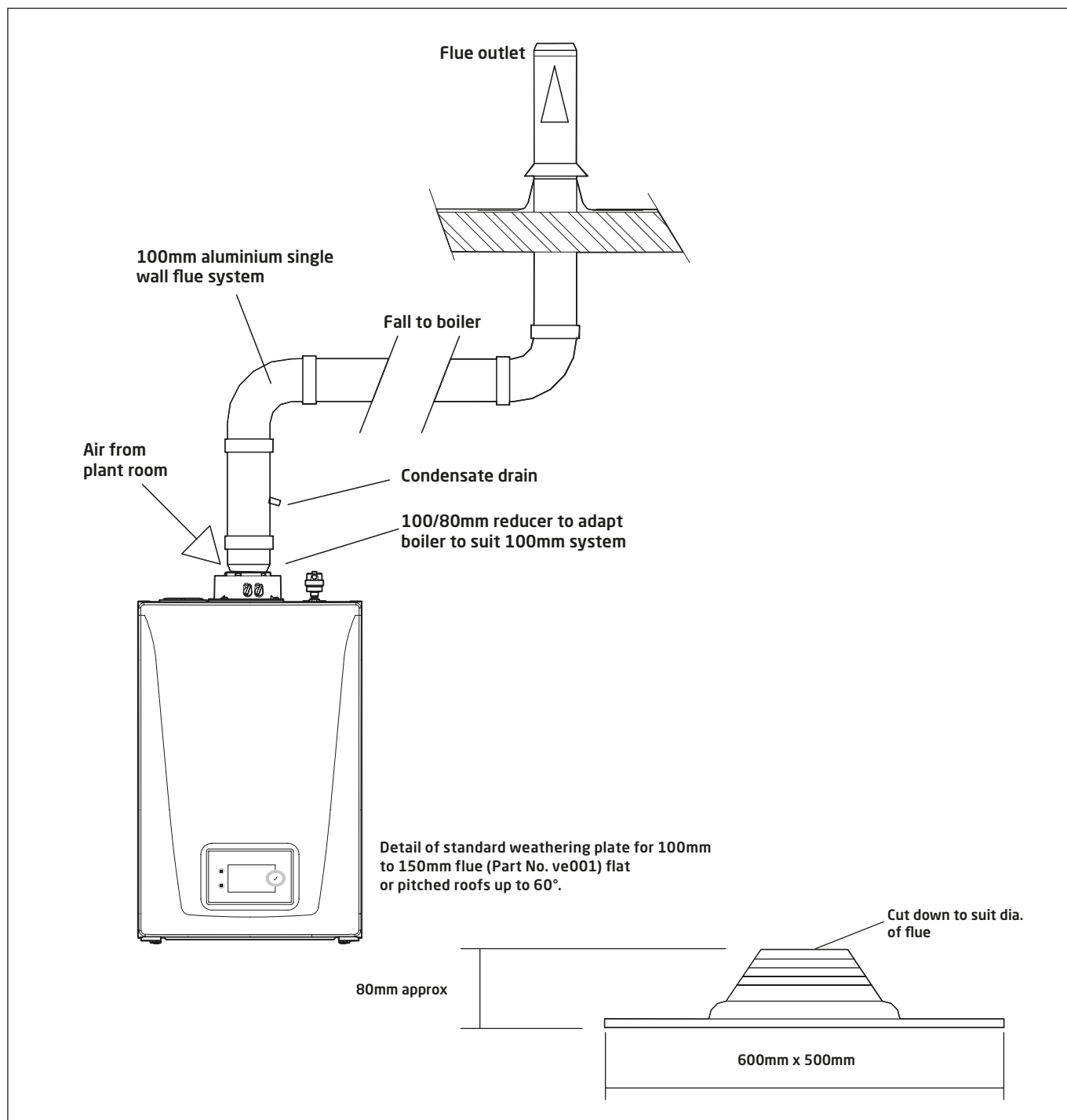
Note 2: Fall to boiler $\geq 50mm/Mtr$.

Quinta Ace S 50, 60, 70kW

100mm Conventional or open flue systems

Typical single-boiler installation.

Conventional or open flue systems



Note: Fall to boiler $\geq 50\text{mm/Mtr.}$

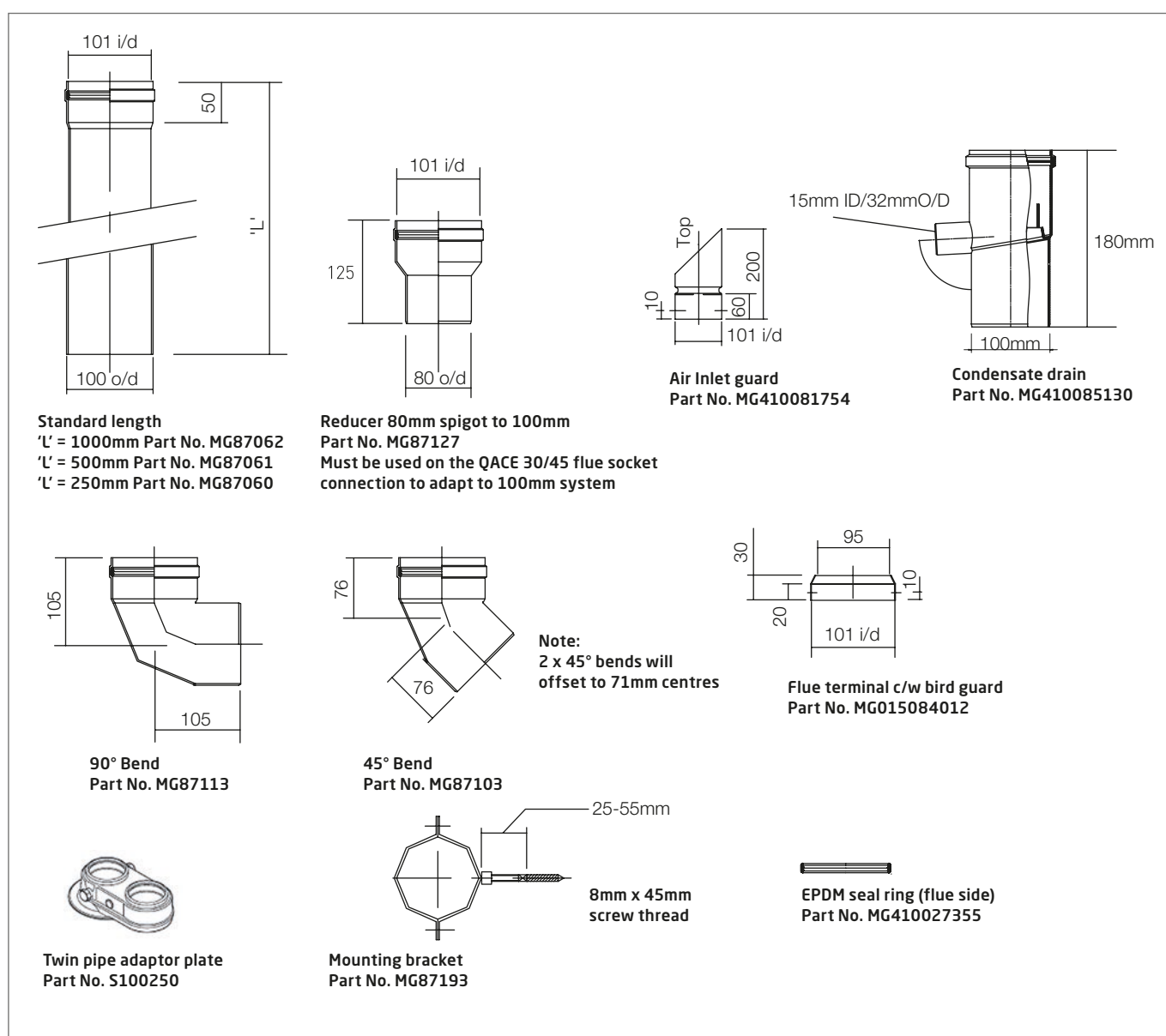
Quinta Ace S 50, 60, 70kW

100mm Conventional or open flue systems

The components listed below are only suitable for internal use. As the boiler is fan assisted it makes no difference if the run is horizontal or vertical but the flue should terminate vertically.

Open Flue Data		Quinta Ace S 50 - 100mm	Quinta Ace S 60 - 100mm	Quinta Ace S 70 - 100mm
Maximum overall flue run	Metres	40	40	40
Reduction length for each 45° bend	Metres	1.4	1.4	1.4
Reduction length for each 90° bend	Metres	4.9	4.9	4.9

Calculation based on flue products supplied by Remeha by Baxi. Other distances available at 110mm (see manual) are achievable with increased flue sizes.



Note 1: All dimensions are in mm.

Note 2: Fall to boiler $\geq 50\text{mm/Mtr}$.

Quinta Ace S 50, 60, 70kW plume kits

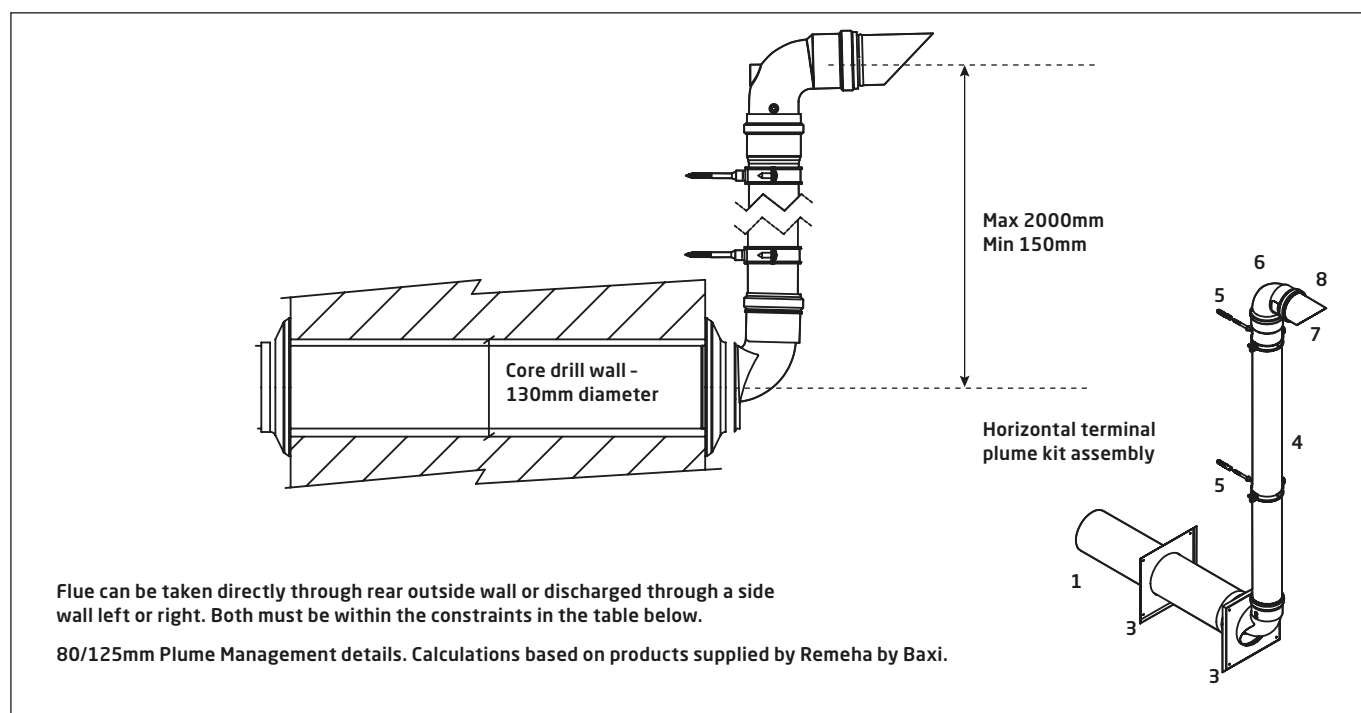
80/125mm flue kit option OP05

Plume kit termination positions must not be used to circumvent current standards and regulations, the point of exit determines the flue outlet position. The 80mm plastic discharge components can then be utilised to position the flue gases/plume to a suitable discharge point in line with current regulations.

Kit parts - PMK-horizontal terminal kit KT00335

- | | |
|---------------------------------|--|
| 1 PMK wall terminal | 6 90° bend (80mm) |
| 2 Boiler bend – not illustrated | 7 Flue outlet (80mm) |
| 3 Wall plates | 8 Bird guard |
| 4 Plume extension | • 1 x siphon – MG410081165 (not illustrated) |
| 5 Support bracket (80mm) | • 1 x condensate adaptor kit – MG410087491 (not illustrated) |

Horizontal flue kit 80/125mm



Note 1: Both the concentric flue terminal and plume flue outlet positions of the Plume Management Kit (PMK) must comply with the current regulations and British Standards with regards to the minimum distances from openings, walls, etc.

Note 2: Fall to boiler $\geq 50\text{mm/Mtr.}$

Room-Sealed (PMK) Data		Quinta Ace S 50 - 80/125mm	Quinta Ace S 60 - 80/125mm	Quinta Ace S 70 - 80/125mm
Maximum overall flue run	Metres	6.0	6.0	6.0
Reduction length for each 45° bend	Metres	1.0	1.0	1.0
Reduction length for each 90° bend	Metres	2.0	2.0	2.0

Note 3: The table shows the maximum lengths allowed. Both the boiler bend (90° @ 80/25mm concentric) at the spigot and the PMK terminal bend (90° @ 80mm single skin) are included. Any further fittings must be subtracted from the maximum overall flue run by applying the respective reduction in lengths. The maximum horizontal flue run is six metres. The external components for this PMK are constructed of black aluminium.

Note 4: The combination of internal concentric and external PMK must not exceed the overall concentric maximum.

Quinta Ace S 50, 60, 70kW plume kits

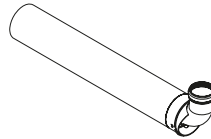
80/125mm plume management components part detail

Plume Kits

Note: The components listed below must only be used as part of the Plume Management Kit.

PMK-horizontal

Terminal – not supplied as a separate component



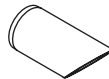
MG410082343

PMK – 90° bend (80mm)



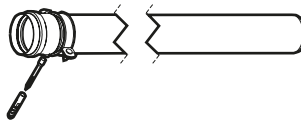
MG410082344

PMK – horizontal outlet (80mm)



MG410082341

PMK – 1000mm flue extension piece c/w wall bracket (80mm)



MG410082342

PMK – 45° bend (80mm)



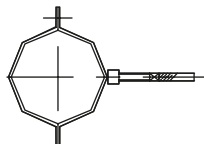
MG410082345

Bird mesh (80mm)



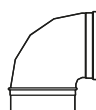
MG410087191

PMK – wall bracket (80mm)



MG410084810

Boiler bend (80mm)

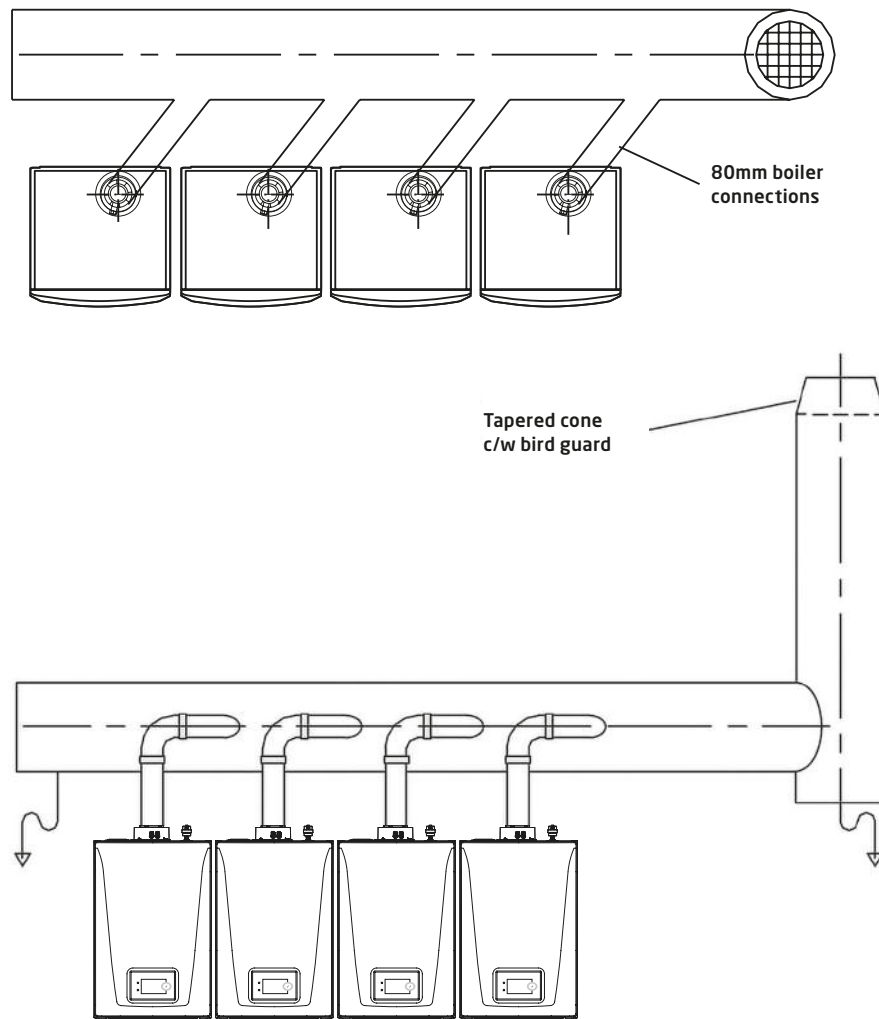


Quinta Ace S 50,60,70kW - multi-boiler

Installation on a combined header

It is recommended you consult a flue specialist for the design, manufacture and installation of the flue system. For conventional or open-flue systems, on a typical multi-boiler installation with the flue combined into a single header and riser.

Installation on a combined header



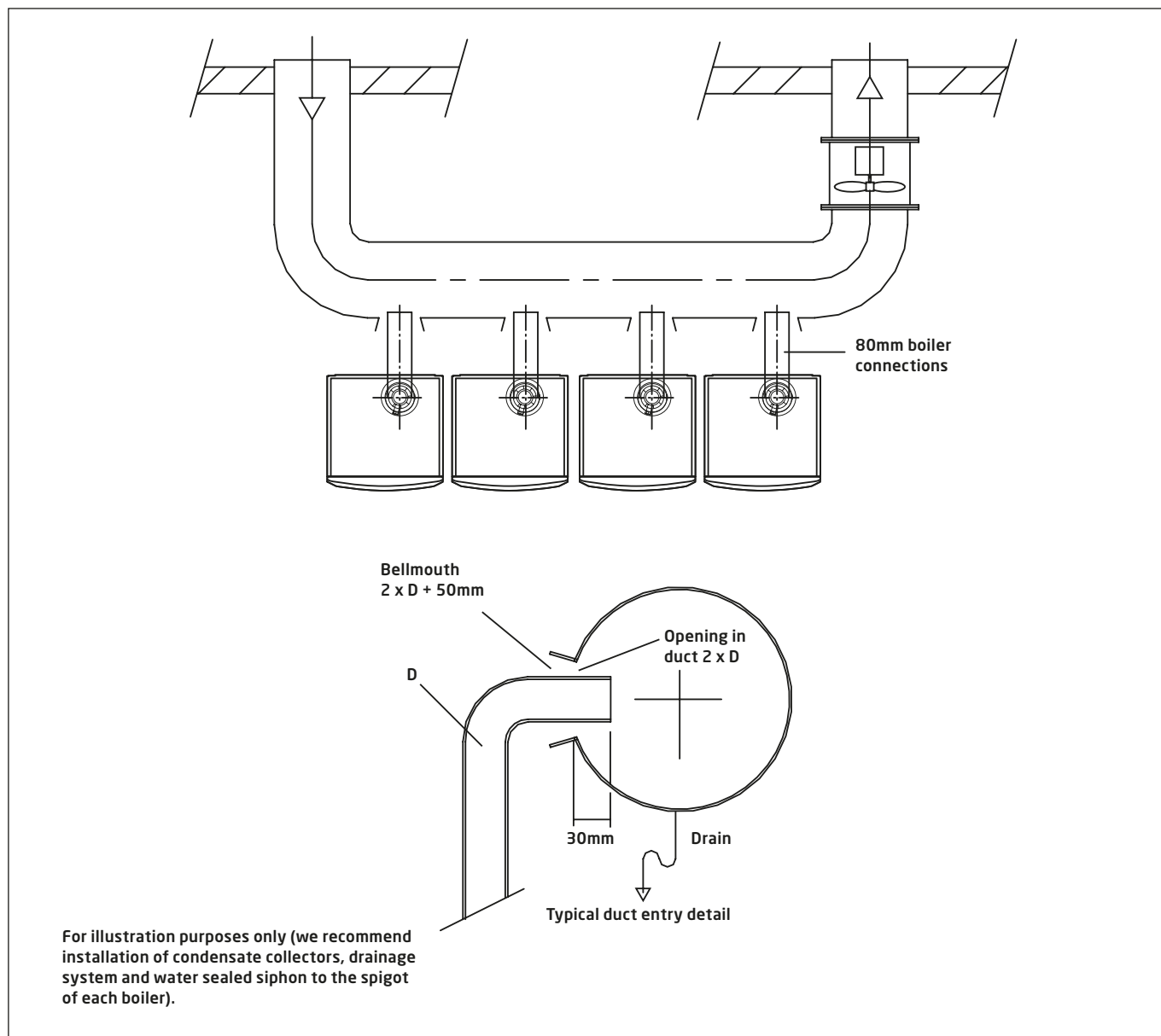
For illustration purposes only (we recommend installation of condensate collectors with drainage system and water sealed siphon to the spigot of each boiler).

Quinta Ace S 50, 60, 70kW multi-boiler or single-boiler

Installation on a flue dilution system

Remeha by Baxi is unable to offer a flue dilution system and recommends the installer contacts a flue specialist to design and manufacture the system in accordance with the requirements of the British Standards. A typical installation for a flue dilution system showing the flue break necessary for all pre-mix boilers to prevent the dilution fan affecting the gas/air ratio control system in the boiler.

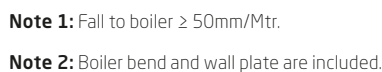
Installation on a flue dilution system



Room-sealed, 100/150mm horizontal concentric flue kit

Kit parts - MG410082981(max wall thickness 500mm)

- ## Horizontal flue kit 100/150mm



- 1 x horizontal terminal

Note 3: All dimensions are in mm.

Note 4: Boiler bend and wall plate are included.

Quinta Ace S 90, 110, 130, 150kW

Room-sealed, 100/150mm vertical concentric flue kit

For use when the flue is discharged vertically through the roof and on a typical single-boiler installation. It can also be used for multiple boilers but each must have its own flue system and be separated by a minimum of 300mm if at the same height. Refer to the relevant British Standard if this is not the case.

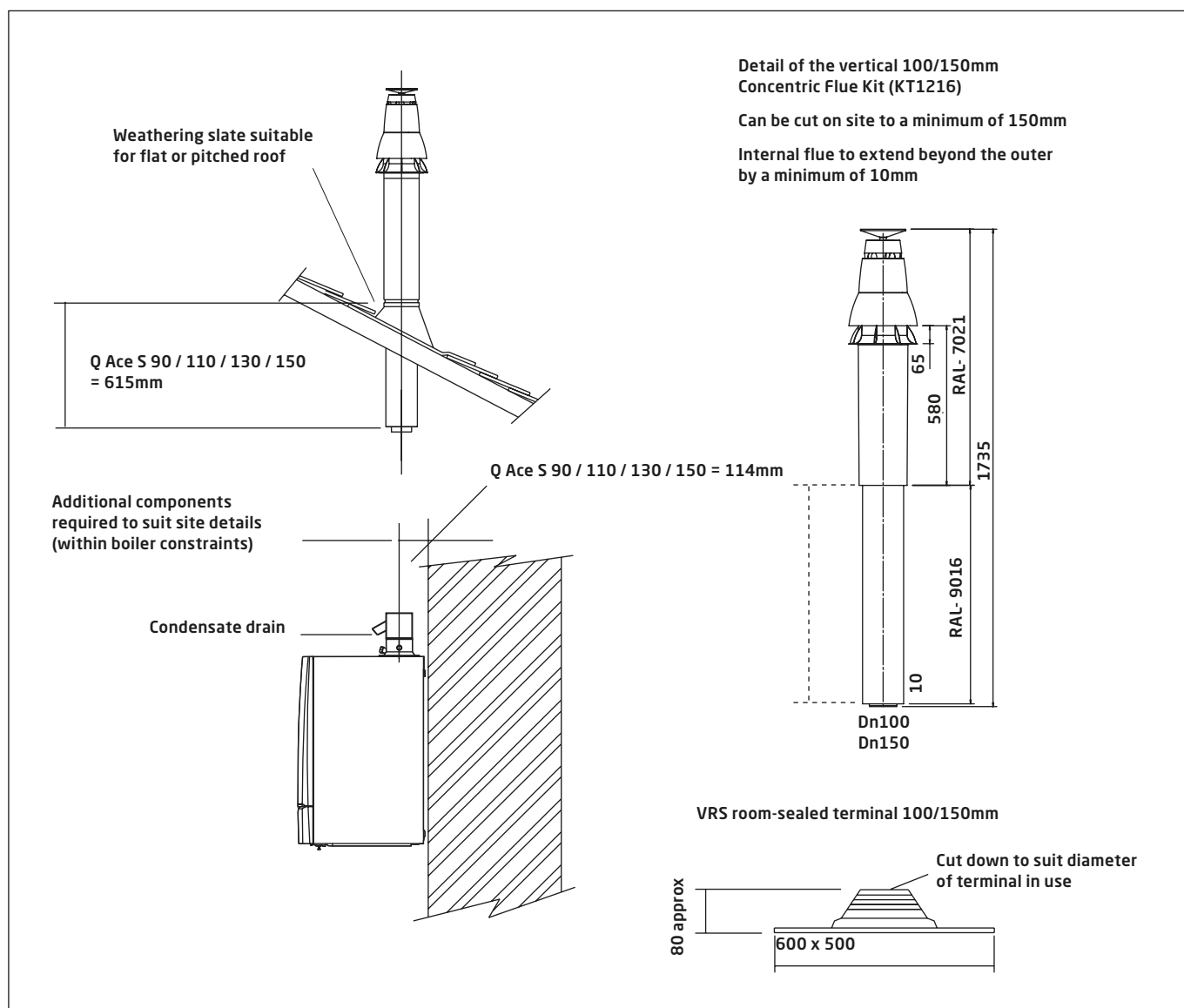
Kit parts - KT216

- 1 x vertical terminal – MG410084862
- 1 x universal roof seal pack – VE001

Kit parts - KT00310

- Contains optional condensate drain

Vertical flue kit 100/150mm



Note: It is recommended a condensate drain is used for vertical flue lengths above 1.5m.

Quinta S 90, 110, 130, 150kW

Room-sealed calculation data to determine maximum flue runs

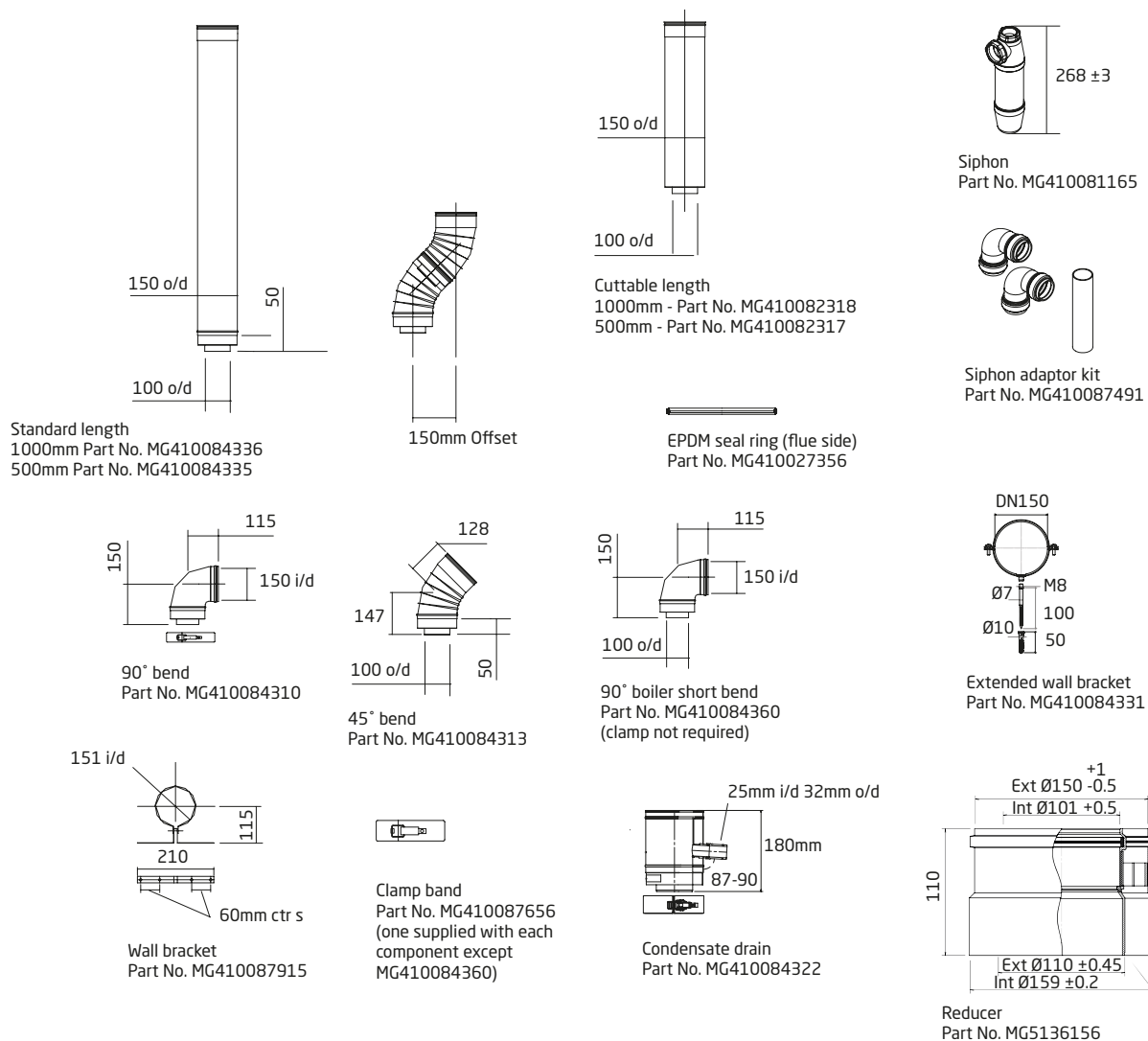
Calculation data based on rigid pipe flue products supplied by Remeha by Baxi.

Room Sealed Flue Data		Quinta Ace S 90 100/150mm	Quinta Ace S 110 100/150mm	Quinta Ace S 130 100/150mm	Quinta Ace S 150 100/150mm
Maximum overall flue run (Horizontal Termination)	Metres	13	11	7	9
Maximum overall flue run (Vertical Termination)	Metres	11	9	3	5
Reduction length for each 45° bend	Metres	1.0	1.0	1.0	1.0
Reduction length for each 90° bend	Metres	2.0	2.0	2.0	2.0

Note 1: Maximum horizontal flue run is six metres. Minimum fall back is 2° or 50mm per metre.

100/150mm concentric flue system components for room-sealed operation

Note 2: The components listed below are not for external use.



Note 3: All dimensions are in mm.

Quinta Ace S 90, 110, 130 and 150kW

Room-sealed two zone CLV flue kit

The Quinta Ace S boiler can be installed in areas with different pressure zones if connected to a C53 flue system. An integral non-return valve is fitted as standard.

Combustion air supply and combustion gas discharge are possible in various pressure zones, semi-CLV systems. With the exception of coastal areas, the maximum permissible difference in height between the combustion air supply and the combustion gas discharge is 36m. .

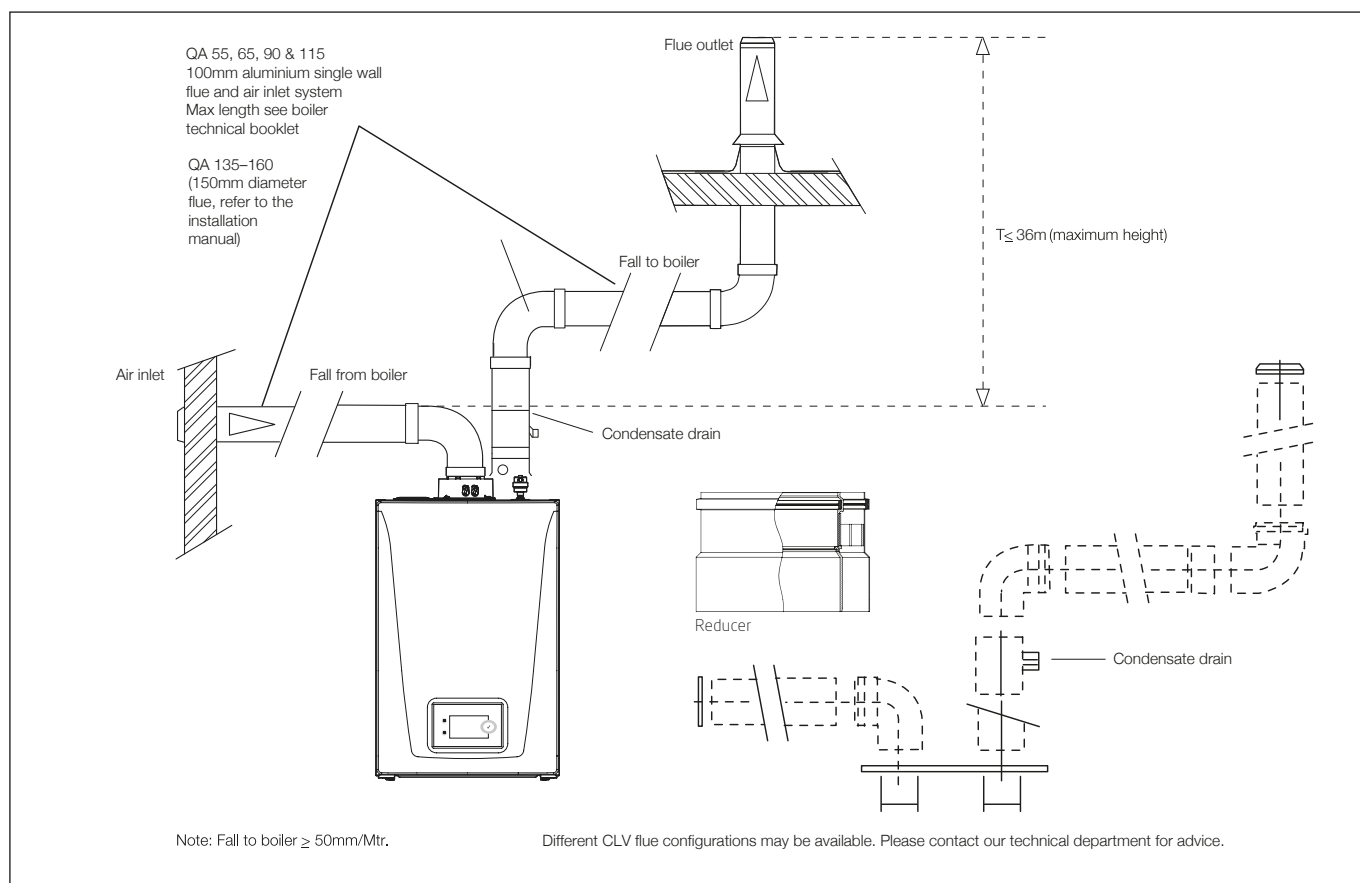
Kit parts - KT030 (QA S 90, 110)

- 1 x flue splitter
- 1 x flue terminal – MG015084012
- 1 x air inlet – MG410081754
- 1 x condensate drain – MG410085130 x siphon – MG410081165 x condensate adaptor kit – MG410087491

Kit parts - KTS00491 (QA S130, 150)

- 1 x flue splitter
- 1 x condensate trap PP 150mm – MG410070327
- 1 x siphon PP h = 150mm – MG410081165
- 1 x condensate adapter kit – MG410087491

Quinta Ace S 90, S 110, S 130 and S 150 two-zone flue kit 100/100mm



Note 1: Fall to boiler ≥ 50mm/Mtr.

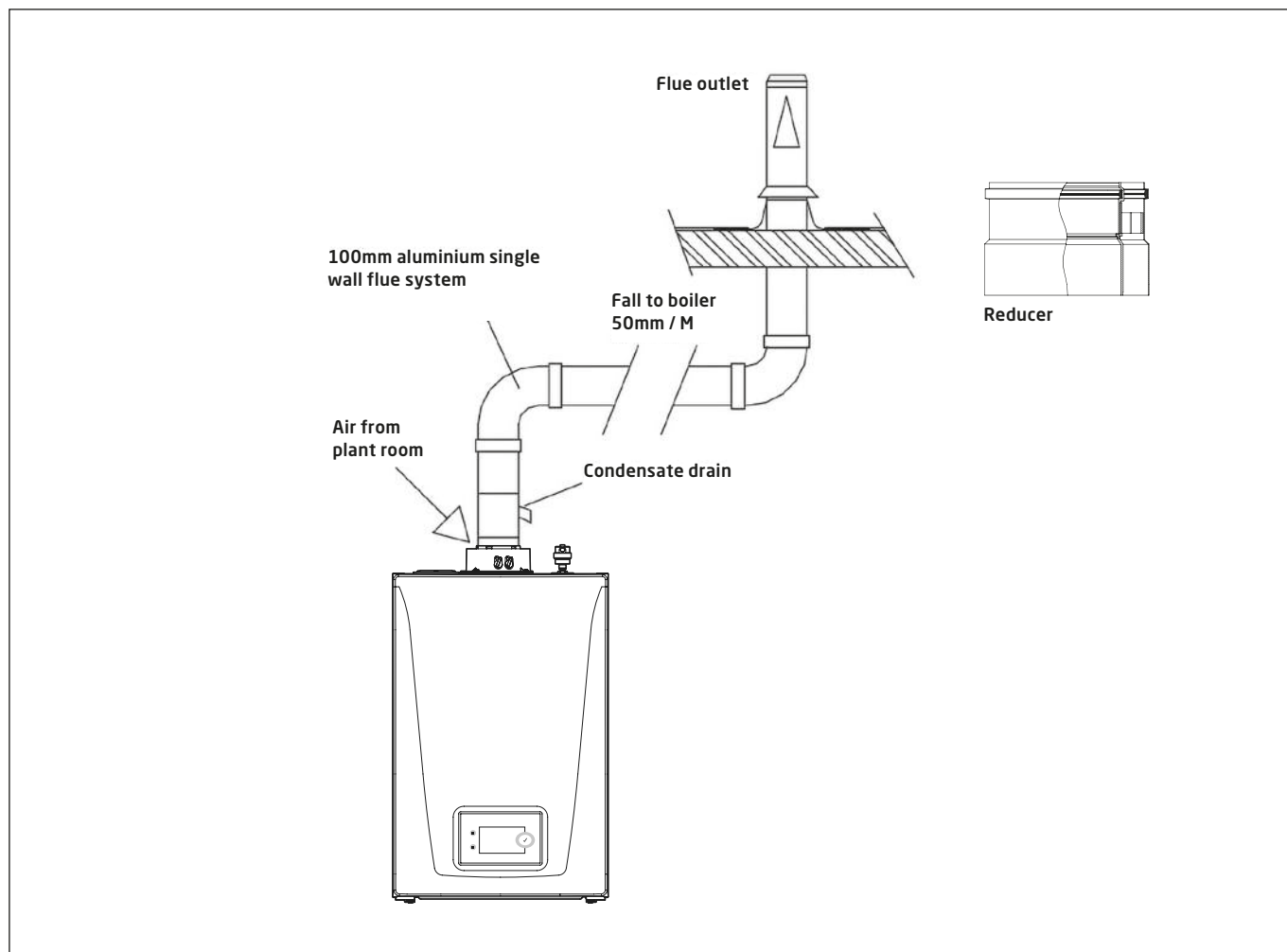
Room Sealed Flue Data		Quinta Ace S 90 100mm	Quinta Ace S 110 100mm	Quinta Ace S 130 100mm	Quinta Ace S 150 100mm
Maximum length	Metres	14	12	6	8
Equivalent length of 45° elbow	Metres	1.4	1.4	1.4	1.4
Equivalent length of 90° elbow	Metres	4.9	4.9	4.9	4.9

Note 2: Maximum permitted height difference between combustion air supply and flue gas outlet is 36m.

Quinta Ace S 90, 110, 130 and 150kW

Conventional or open flue systems

Typical single-boiler installation. It can also be used for multiple boilers with each boiler having its own flue system.



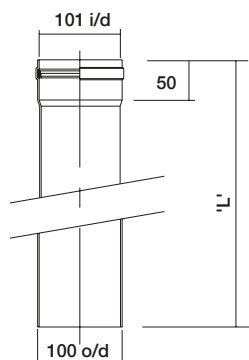
Conventional / Open Flue Data		Quinta Ace S 90 100mm	Quinta Ace S 110 100mm	Quinta Ace S 130 100mm	Quinta Ace S 150 100mm
Maximum overall flue run	Metres	20	17	11	13
Reduction length for each 45° bend	Metres	1.4	1.4	1.4	1.4
Reduction length for each 90° bend	Metres	4.9	4.9	4.9	4.9

Note: Table shows max length of flue. Greater distances can be achieved by using larger diameter flue. Please refer to Baxi technical department for further details. *Not supplied by Remeha by Baxi.

Quinta Ace S 90, 110, 130 and 150kW

100mm single wall aluminium flue components

Aluminium flue components

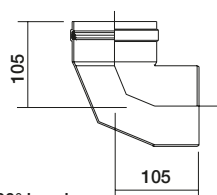


Standard length

'L' = 1000mm Part No. MG87062

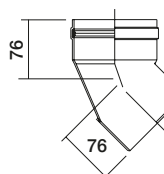
'L' = 500mm Part No. MG87061

'L' = 250mm Part No. MG87060



90° bend

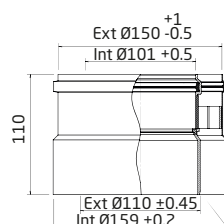
Part No. MG87113



45° bend

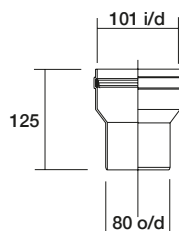
Part No. MG87103

Note:
2 x 45° bends will offset
to 71mm centres



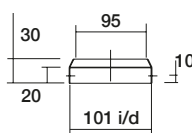
Reducer

Part No. MG5136156



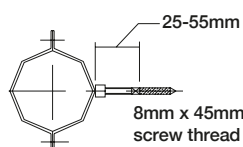
Reducer 80 spigot to 100 socket
Part No. MG87127

Must be used on the QP 30/45 flue
connection to adapt to 100mm system



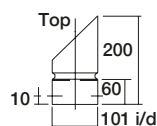
Flue terminal c/w bird guard

Part No. MG015084012



Mounting bracket

Part No. MG87193

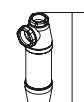


Air inlet guard

Part No. MG410081754

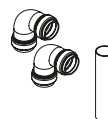


Silicone seal ring
Part No. MG87183



Siphon

Part No. MG410081165

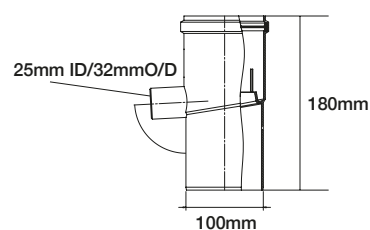


Siphon adaptor kit

Part No. MG410087491

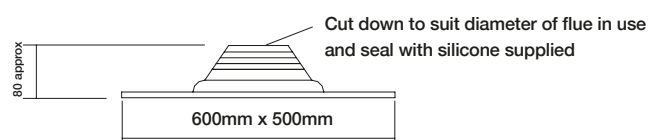


Eccentric flue connector
80/80 – Part No. TBC
100/100 – Part No. TBC



Condensate drain

Part No. MG410085130



Detail of standard weathering plate for
100mm to 150mm flue (Part No. VE001)

Note 1: All dimensions are in mm.

Note 2: The only parts that are suitable for external use are VE001, MG015084012 and MG410081754.

Quinta Ace S 90, 110, 130 and 150kW

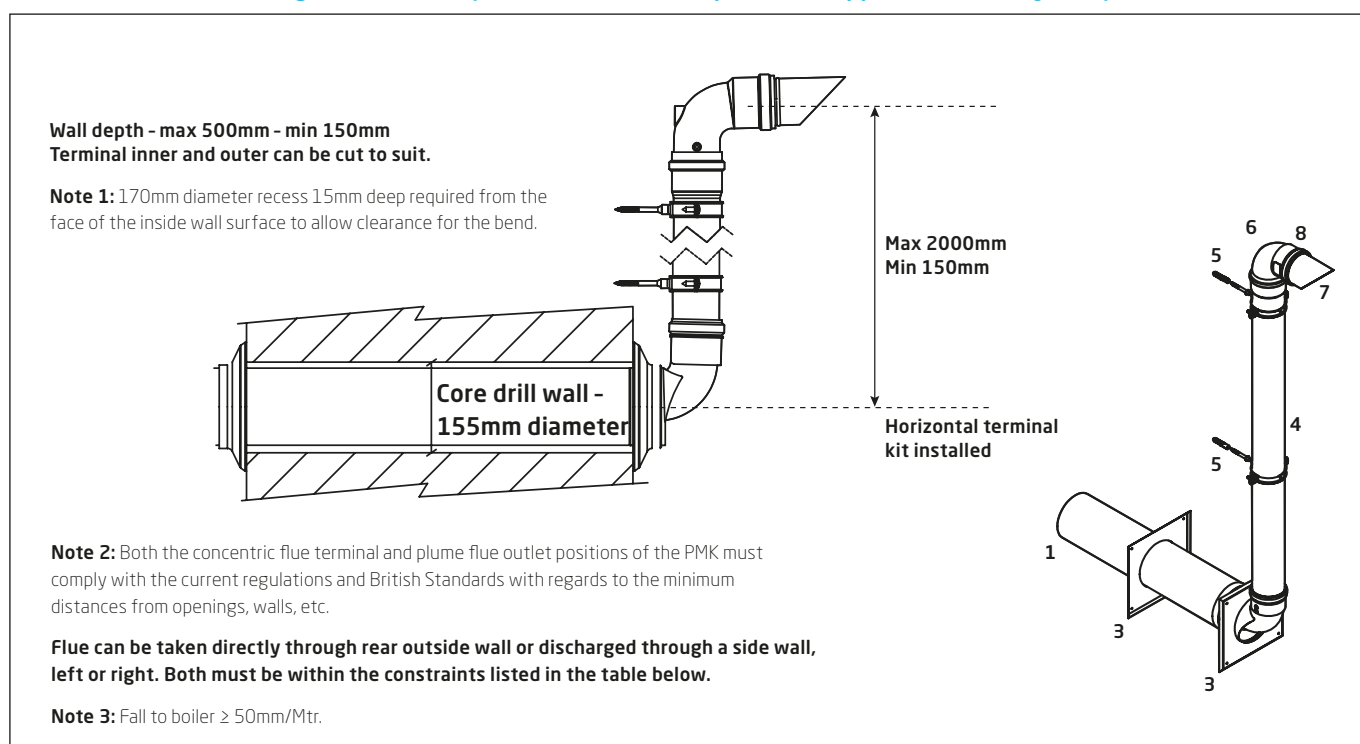
100/150mm flue option QP11

Plume kit termination positions must not be used to circumvent current standards and regulations. The point of exit determines the flue outlet position. The 100mm aluminium discharge components can then be used to position the flue gases/plumes to a suitable discharge point, again in line with current regulations.

100/150mm plume management kits QP11 Kit part - KT00336 PMK horizontal terminal kit

- | | |
|---------------------------------|--|
| 1 PMK wall terminal | 6 90° bend (100mm) |
| 2 Boiler bend – not illustrated | 7 Flue outlet (100mm) |
| 3 Wall plates | 8 Bird guard |
| 4 Plume extension | • 1 x siphon – MG410081165 (not illustrated) |
| 5 Support bracket (100mm) | • 1 x condensate adaptor kit – MG410087491 (not illustrated) |

100/150mm Plume Management details (calculation based on products supplied Remeha by Baxi)



Room Sealed (PMK) Flue Data		Quinta Ace S 90 100/150mm	Quinta Ace S 110 100/150mm	Quinta Ace S 130 100/150mm	Quinta Ace S 150 100/150mm
Maximum horizontal run	Metres	6	6	6	6
Reduction length for each 45° bend	Metres	1.2	1.2	1.2	1.2
Equivalent length of 90° bend	Metres	2.8	2.8	2.8	2.8

Note 4: The table shows the maximum lengths allowed. Both the boiler bend (90° @ 100/150mm concentric) at the spigot and the PMK terminal bend (90° @ 100mm single skin) are included. Any further fittings must be subtracted from the maximum overall flue run by applying the respective reduction in lengths. The maximum horizontal flue run is six metres. The external components for this PMK are constructed of black aluminium. If the flue is greater than one metre, then provision of a condensate drain is required.

Note 5: The combination of internal concentric and external PMK must not exceed the overall concentric maximum.

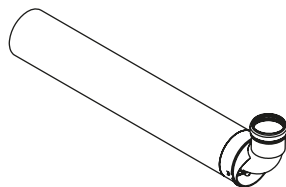
Quinta Ace S 90, 110, 130 and 150kW

100/150mm plume management components part detail

Components part detail

PMK - horizontal terminal

Not supplied as a separate component



MG410081755

Bird mesh 100mm



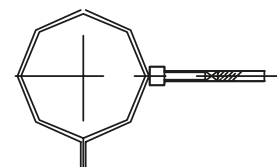
MG410081753

PMK - 90° bend (100mm)



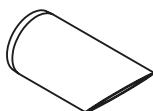
MG410087193

PMK - wall bracket (100mm)



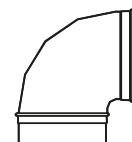
MG410081754

PMK - horizontal outlet (100mm)



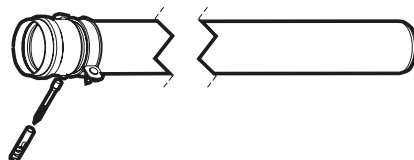
MG410084360

Boiler bend



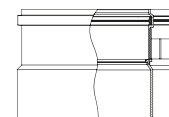
MG410081751

PMK - 1000mm glue extension piece c/w wall bracket (100mm)



MG5136156

Reducer



MG410081752

PMK - 45° bend (100mm)



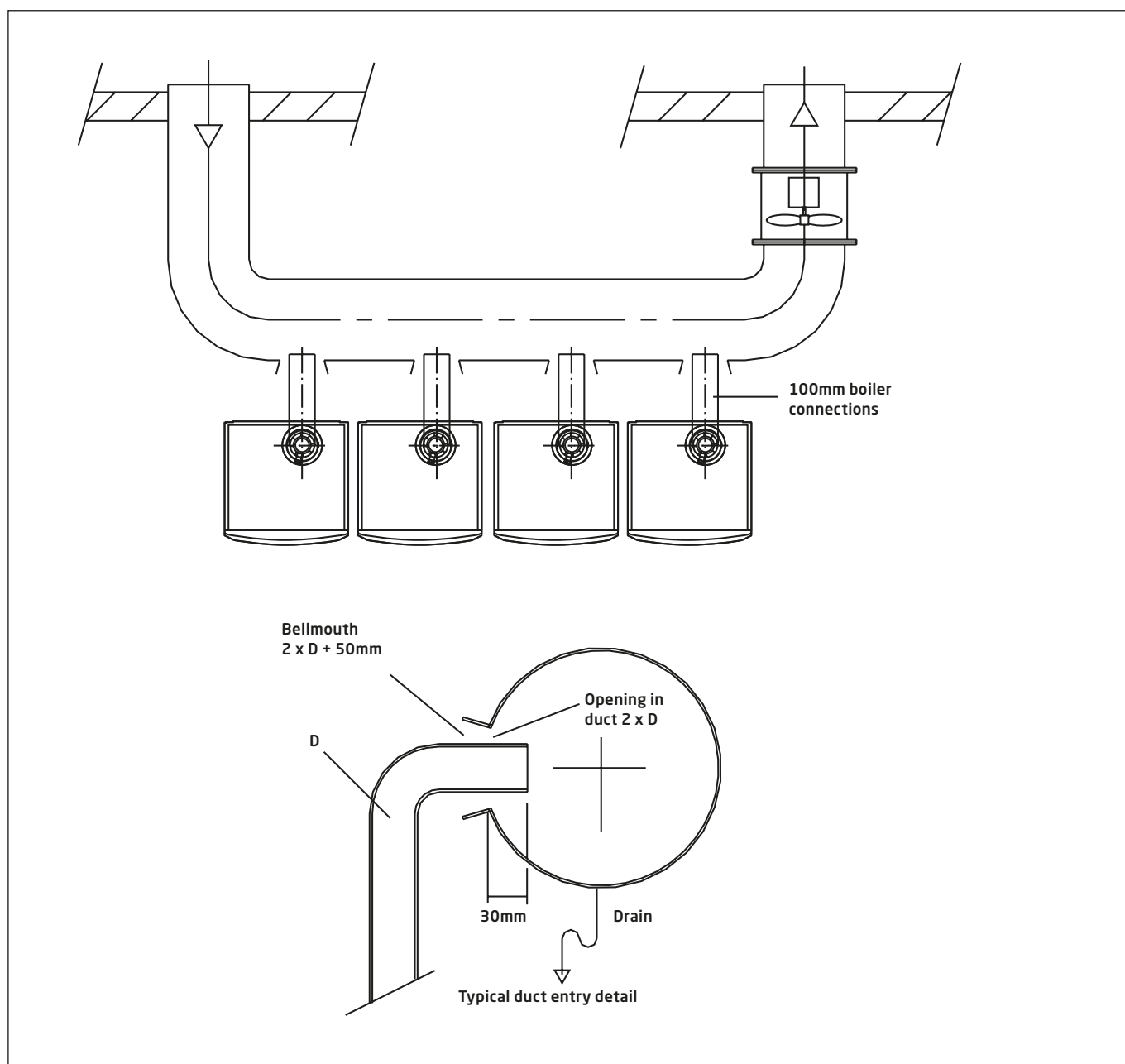
Note: The components listed above must only be used as part of the Plume Management Kit.

Quinta Ace S 90, 110, 130 and 150kW

Multi or single-boiler installations on a flue dilution system

Remeha by Baxi is unable to offer a flue dilution system and recommends that the installer contacts a flue specialist to design and manufacture the system in accordance with the requirements of the British Standards. Typical multi-boiler installation for a flue dilution system showing the flue break necessary for all pre-mix boilers to prevent the dilution fan affecting the gas/air ratio control system in the boiler.

Flue dilution system



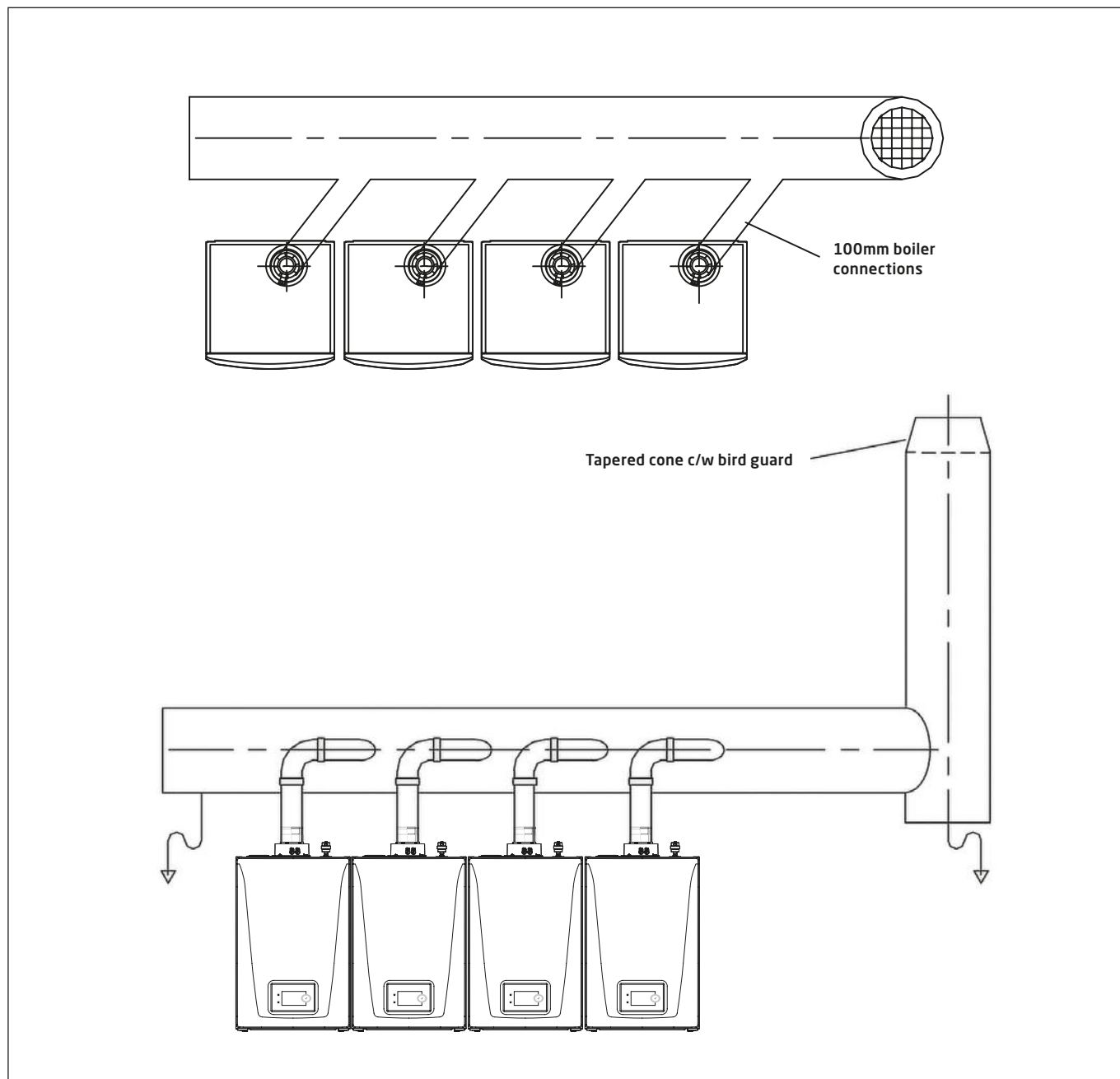
For illustration purposes only (we recommend installation of condensate collectors with drainage system and water sealed siphon to the spigot of each boiler).

Quinta Ace S 90, 110, 130 and 150kW

Multi-boiler installation on a combined header

It is recommended you consult a flue specialist for the design, manufacture and installation of the flue system. For conventional or open flue systems in a typical multi-boiler installation with the flue combined into a single header and riser.

Multi-boiler installation



For illustration purposes only (we recommend installation of condensate collectors with drainage system and water sealed siphon to the spigot of each boiler).

Note: Using 90° boiler connections into the header may result in larger headers and risers being required.

Cascade options

Spreading the total required heat output over several boilers in cascade configuration offers several advantages:

- Greater reliability
- Higher efficiency
- Improved design flexibility
- Quick and easy installation

In order to make it as simple as possible to create a cascade configuration, we have offered complete cascade systems for years. The compact design of the boilers, combined with the smart gas and water connection technology of the cascade system, makes it possible to install a high heat output in a small area.

When installing two to eight boilers, our product range includes systems that are very comprehensive and easy to install. The hydraulic and gas system can be put together entirely without welding, using screw connections, compression connections and flanges. The individual components of the cascade systems are available for independent cascade installation.

Please contact our technical or sales departments for different configurations. We also provide in-depth advice on the choice of flue gas discharge material and control engineering.

Structure of Quinta Ace S

50, 60, 70kW cascade systems

The flow, return and gas connections of the individual boilers are connected using the fittings supplied by means of horizontal connections to main pipes for flow, return and gas. These pipes are welded onto a frame that rests on the floor and is fixed to the wall or to a free-standing frame. The low loss header supplied has flange connections. Our optional Plate Heat Exchanger kits are supplied with flanged connections to seamlessly fit onto the cascade system. The blind flanges supplied are then fitted on the other side. The gas main pipe has a flange to which the optional gas filter can also be connected on the left or right as required. The blind flange supplied is then fitted on the other side. When a gas filter is used, a pressure loss of three mbar over the gas filter must be taken into account. The minimum inlet working gas pressure after the gas filter is 17mbar. A common PVC condensed water discharge pipe (not supplied) can be installed in the frame. For this purpose, holes have been made in the frame into which this pipe can be fitted (to the left or right as required) sloping downwards.

The Quinta Ace S 50, 60 and 70kW boilers are particularly suitable for use in cascade systems due to their small footprint and narrow width which allows an exceptionally compact cascade configuration. For example, when using six Quinta Ace

S 70 kW boilers in line (including low loss header), approximately only 3.8m wall width is required for 420kW (80/60°C).

The cascade systems can be divided into three main groups:

- Two to seven Quinta Ace S boilers in a linear configuration, wall-mounted
- Two to seven Quinta Ace S boilers in a linear configuration, mounted on a free-standing frame
- Three to ten (2 x 5) Quinta Ace S boilers in a back-to-back configuration, mounted on a free-standing frame. The boiler side of the cascade systems is sized to 20°C. The low loss header or air dirt separator is based on 20/11°C. Plates are sized for a 25°C delta T on the primary side.

A cascade up to a heat output of 460kW (80/60) has main flow and return pipes of DN65 and the gas pipe is DN50 with corresponding flanged connections. A cascade up to a heat output of 830kW (80/60) has main flow and return pipes of DN100 and the gas pipe is DN65 with corresponding flanged connections.

Structure of Quinta Ace S

90, 110, 130 and 150kW cascade systems

The Quinta Ace S 90, 110, 130 and 150kW boilers are particularly suitable for use in cascade systems due to their small footprint and width of only 50cm which allows an exceptionally compact cascade configuration. This combined with the smart gas and water connection technology (no brazing) of the cascade system makes it possible to install a high output system in a small area. For example, eight Quinta Ace S 150 kW boilers can be installed in an area of 4.4m² (including low loss header) to provide just over 1100kW (80/60°C). It is also possible to have a mixed cascade that includes the smaller Quinta Ace boilers into the configuration.

The cascade systems can be divided into two main groups:

- Two to eight Quinta Ace S boilers in a linear configuration, mounted on a free-standing frame

or

- Three to eight (2 x 4) Quinta Ace S boilers in a back-to-back configuration, mounted on a free-standing frame.

The boiler side of the cascade systems is sized to 20°C. The low loss header or air dirt separator is based on 20/11°C.

The cascade is supplied with main flow and return pipes of DN100 and the gas pipe is DN65 with corresponding flanged connections.

Quinta Ace S installation drawings

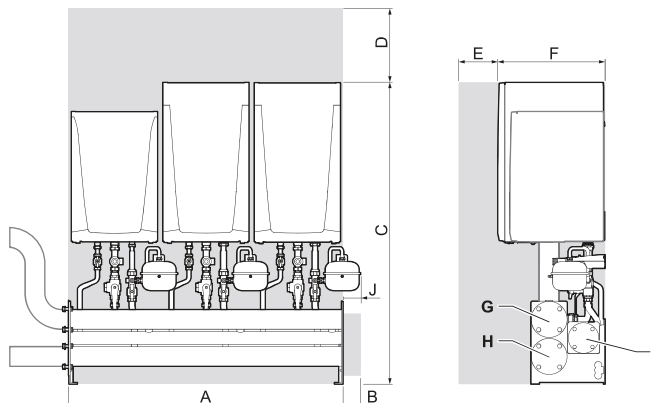
for wall-mounted cascade systems

The cascade systems can be divided into three main groups:

- Two to eight boilers in a linear configuration, wall-mounted
- Two to eight boilers in a linear configuration, mounted on a free-standing frame
- Three to ten boilers in a back-to-back configuration, mounted on a free-standing frame

The boiler side of the cascade systems is sized to 20°C. The secondary side can provide either 20° or 11° DT depending upon which low loss header is selected.

Wall-mounted configuration for Quinta Ace S 50, 60, 70, 90, 110, 130 and 150kW boilers



Dimensions in mm with DN65 collector pipes

	Description	2 boilers	3 boilers	4 boilers	5 boilers	6 boilers	7 boilers	8 boilers
A	Total width	1060	1590	2120	2650	3180	3710	4240
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50	50	50	50	50
C	Total height	1579	1579	1579	1579	1579	1579	1579
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700	700	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000	1000	1000	1000	1000
F	Total depth	560	560	560	560	560	560	560
G	Flow connection	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6
H	Return connection	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6
I	Gas connection	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16
J	Free space required for expansion vessel	102	102	102	102	102	102	102

Note: Cascades up to 460kW are DN65, anything over 460kW is DN100.

Dimensions in mm with DN100 collector pipes

	Description	2 boilers	3 boilers	4 boilers	5 boilers	6 boilers	7 boilers	8 boilers
A	Total width	1060	1590	2120	2650	3180	3710	4240
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50	50	50	50	50
C	Total height for a cascade with ≤ 70kW boiler models	1579	1579	1579	1579	1579	1579	1579
C	Total height for a cascade with ≥ 90kW boiler models	1748	1748	1748	1748	1748	1748	1748
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700	700	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000	1000	1000	1000	1000
F	Total depth for a cascade with ≤ 70kW boiler models	560	560	560	560	560	560	560
F	Total depth for a cascade with ≥ 90kW boiler models	631	631	631	631	631	631	631
G	Flow connection	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6
H	Return connection	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6
J	Gas connection	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16
J	Free space required for expansion vessel	102	102	102	102	102	102	102

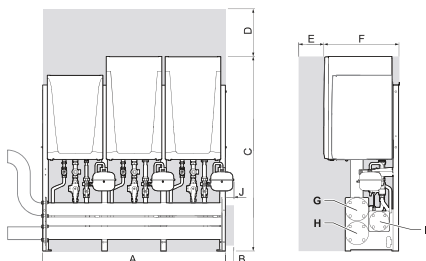
(1) When fitting a blanking flange with an expansion vessel connection, make sure there is enough space for fitting the vessel.

(2) Make sure there is enough space for the flue gas system.

Quinta Ace S linear configuration

Mounted on a free-standing frame two to eight boilers

Free standing frame configuration for Quinta Ace S 50, 60, 70, 90, 110, 130 and 150kW boilers



Dimensions in mm with DN65 collector pipes

	Description	2 boilers	3 boilers	4 boilers	5 boilers	6 boilers	7 boilers	8 boilers
A	Total width	1110	1640	2170	2700	3230	3760	4290
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50	50	50	50	50
C	Total height	1687	1687	1687	1687	1687	1687	1687
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700	700	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000	1000	1000	1000	1000
F	Total depth	610	610	610	610	610	610	610
G	Flow connection	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6
H	Return connection	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6	DN65 PN6
I	Gas connection	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16	DN50 PN16
J	Free space required for expansion vessel	76	76	76	76	76	76	76

Note: Cascades up to 460kW are DN65, anything over 460kW is DN100.

Dimensions in mm with DN100 collector pipes

	Description	2 boilers	3 boilers	4 boilers	5 boilers	6 boilers	7 boilers	8 boilers
A	Total width	1110	1640	2170	2700	3230	3760	4290
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50	50	50	50	50
C	Total height for a cascade with ≤ 70kW boiler models	1687	1687	1687	1687	1687	1687	1687
C	Total height for a cascade with ≥ 90kW boiler models	1748	1748	1748	1748	1748	1748	1748
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700	700	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000	1000	1000	1000	1000
F	Total depth for a cascade with ≤ 70kW boiler models	610	610	610	610	610	610	610
F	Total depth for a cascade with ≥ 90kW boiler models	681	681	681	681	681	681	681
G	Flow connection	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6
H	Return connection	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6
I	Gas connection	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16	DN65 PN16
J	Free space required for expansion vessel	76	76	76	76	76	76	76

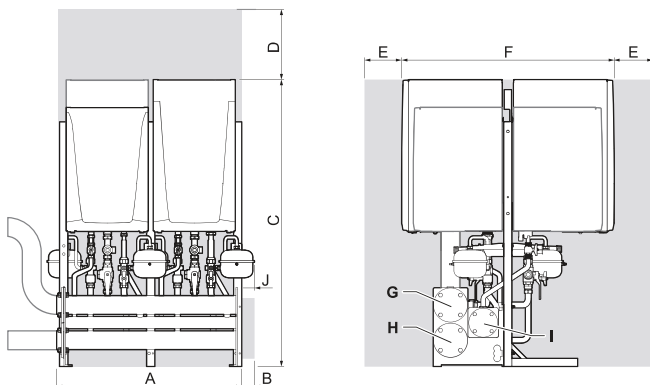
(1) When fitting a blanking flange with an expansion vessel connection, make sure there is enough space for fitting the vessel.

(2) Make sure there is enough space for the flue gas system.

Quinta Ace S back-to-back configuration

Mounted on a free-standing frame

Back-to-back mounted on a free-standing frame configuration for Quinta Ace S 50, 60, 70, 90, 110, 130 and 150kW boilers



Dimensions in mm with DN65 collector pipes

	Description	3-4 boilers	5-6 boilers	7-8 boilers
A	Total width	1110	1640	2170
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50
C	Total height	1687	1687	1687
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000
F	Total depth	1170	1170	1170
G	Flow connection	DN65 PN6	DN65 PN6	DN65 PN6
H	Return connection	DN65 PN6	DN65 PN6	DN65 PN6
I	Gas connection	DN50 PN16	DN50 PN16	DN50 PN16
J	Free space required for expansion vessel	76	76	76

Note: Cascades up to 460kW are DN65, anything over 460kW is DN100.

Dimensions in mm with DN100 collector pipes

	Description	3-4 boilers	5-6 boilers	7-8 boilers
A	Total width	1110	1640	2170
B	Free space required for mounting the blanking flanges ⁽¹⁾	50	50	50
C	Total height for a cascade with ≤ 70 kW boiler models	1687	1687	1687
C	Total height for a cascade with ≥ 90 kW boiler models	1748	1748	1748
D	Free space above the boilers (recommended minimum) ⁽²⁾	700	700	700
E	Free space in the front of the boilers (recommended)	1000	1000	1000
F	Total depth for a cascade with ≤ 70 kW boiler models	1170	1170	1170
F	Total depth for a cascade with ≥ 90 kW boiler models	1312	1312	1312
G	Flow connection	DN100 PN6	DN100 PN6	DN100 PN6
H	Return connection	DN100 PN6	DN100 PN6	DN100 PN6
I	Gas connection	DN65 PN16	DN65 PN16	DN65 PN16
J	Free space required for expansion vessel	76	76	76

(1) When fitting a blanking flange with an expansion vessel connection, make sure there is enough space for fitting the vessel.

(2) Make sure there is enough space for the flue gas system.

Cascade Options

Dimensions and connections - Low loss headers

Low loss header and air dirt separator configuration for cascade kits for the Quinta Ace S 50, 60, 70, 90, 110, 130 and 150kW

Fig.45 Low loss header dimensions - DN65 <350 kW

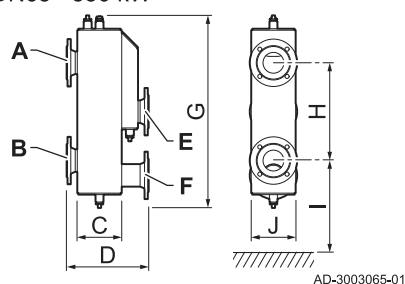


Fig.46 Low loss header dimensions - DN65 <350 kW - DN100

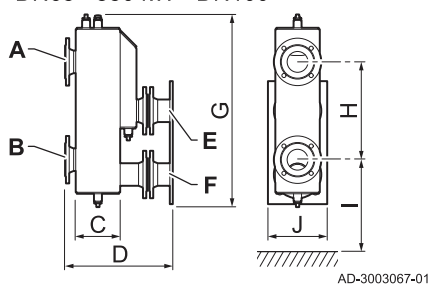


Fig.47 Low loss header dimensions

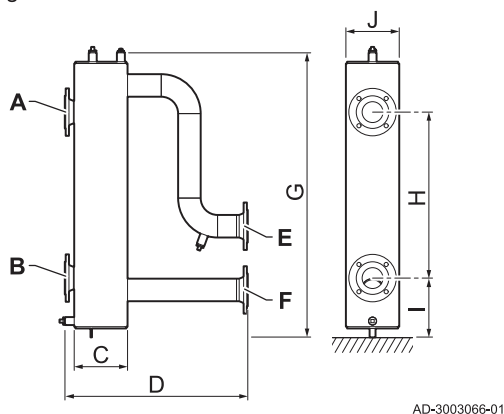
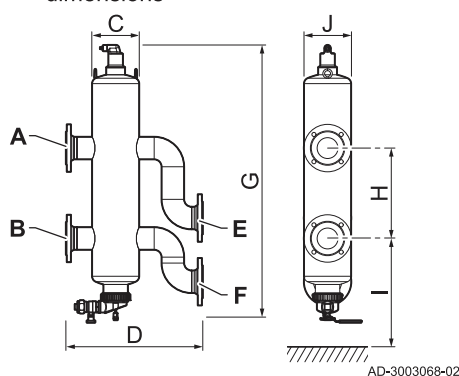


Fig.48 Low loss header with dirt separator dimensions



Tab. 16 Low loss header dimensions - DN65 <350kW

	Description	DN65 <350 kW	DN65 - DN100 ⁽¹⁾
A	Flange size flow, system side	DN65 PN6	DN65 PN6
B	Flange size return, system side	DN65 PN6	DN65 PN6
C	Body depth	143	143
D	Total depth	277	357
E	Flange size flow, boiler side	DN65 PN6	DN100 PN6
F	Flange size return, boiler side	DN65 PN6	DN100 PN6
G	Total height	610	610
H	Flange distance, system side	330	330
I	Flange height, system side	200	200
J	Total width	160	200

(1) Includes an adaptor to connect the DN65 low loss header to an DN100 collector pip set.

Tab. 17 Low loss header dimensions

	Description	DN65	DN100
A	Flange size flow, system side	DN65 PN6	DN100 PN6
B	Flange size return, system side	DN65 PN6	DN100 PN6
C	Body depth	180	250
D	Total depth	617	631
E	Flange size flow, boiler side	DN65 PN6	DN100 PN6
F	Flange size return, boiler side	DN65 PN6	DN100 PN6
G	Total height	960	960
H	Flange distance, system side	560	560
I	Flange height, system side	200	200
J	Total width	180	250

Tab. 18 Low loss header with dirt separator dimensions

	Description	DN65	DN100
A	Flange size flow, system side	DN65 PN6	DN100 PN6
B	Flange size return, system side	DN65 PN6	DN100 PN6
C	Body depth	ø159	ø219
D	Total depth	462	744
E	Flange size flow, boiler side	DN65 PN6	DN100 PN6
F	Flange size return, boiler side	DN65 PN6	DN100 PN6
G	Total height	905	1261
H	Flange distance, system side	305	460
I	Flange height, system side	306	414
J	Total width	ø159	ø219

Cascade Options

Dimensions and connections - Plate heat exchangers

Plate Heat Exchanger Kit configuration for cascade kits for the Quinta Ace S 50, 60, 70, 90, 110, 130 and 150kW

Our new range of PHEX kits offers 22 plates sized for a nominal output of up to 1280kW with bespoke connection sets offering flanged connections that are perfectly matched to our Quinta Ace S cascade systems.

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 50kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	97.2	4.18	RHB-60-60	14.06
3	145.8	6.27	RHB-60-80	19.22
4	194.4	8.36	RHB-110-80	10.53
5	243.0	10.45	RHB-110-80	16.18
6	291.6	12.54	RHB-110-100	15.60
7	340.2	14.63	RHB-110-120	18.76
8	388.8	16.72	RHB-110-140	16.65
9	437.4	18.81	RHB-110-180	14.79
10	486.0	20.90	RMB-235-80	16.68

(1) Nominal output P_{nc} 50/30°C.

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 60kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	118.8	5.11	RHB-60-80	12.97
3	178.2	7.66	RHB-60-100	20.50
4	237.6	10.22	RHB-110-80	15.55
5	297.0	12.77	RHB-110-100	16.11
6	356.4	15.33	RHB-110-120	17.80
7	415.8	17.88	RHB-110-140	18.94
8	475.2	20.43	RHB-110-160	20.24
9	534.6	22.99	RMB-235-100	13.41
10	594.0	25.54	RMB-235-100	16.26

(1) Nominal output P_{nc} 50/30°C.

Cascade Options

Dimensions and connections - Plate heat exchangers

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 70kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	140.4	6.04	RHB-60-80	17.73
3	210.6	9.06	RHB-110-80	12.36
4	280.8	12.06	RHB-110-100	14.49
5	351.0	15.09	RHB-110-120	17.32
6	421.2	18.11	RHB-110-140	19.38
7	491.4	21.13	RMB-235-80	17.08
8	561.6	24.15	RMB-235-100	14.63
9	631.8	27.17	RMB-235-100	18.30
10	702.0	30.19	RMB-235-120	17.12

(1) Nominal output P_{nc} 50/30°C.

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 90kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	183.6	7.89	RHB-110-80	9.25
3	275.4	11.84	RHB-110-100	13.91
4	367.2	15.79	RHB-110-140	14.88
5	459.0	19.74	RMB-235-80	14.96
6	550.8	23.68	RMB-235-100	14.09
7	642.6	27.63	RMB-235-100	18.91
8	734.4	31.58	RMB-235-120	18.64
9	826.2	35.53	RMB-235-140	17.76
10	918.0	39.47	RMB-235-160	17.69

(1) Nominal output P_{nc} 50/30°C.

Cascade Options

Dimensions and connections - Plate heat exchangers

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 110kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	220.4	9.48	RHB-110-160	4.59
3	330.6	14.22	RMB-235-80	7.72
4	440.8	18.95	RMB-235-120	7.05
5	551.0	23.69	RMB-235-160	6.65
6	661.2	28.43	RMB-235-200	6.72
7	771.4	33.17	RMB-235-260	6.44
8	881.6	37.91	RMB-235-280	7.72
9	991.8	42.65	RMB-235-280	9.70
10	1102.0	47.39	RMB-235-280	11.91

(1) Nominal output P_{nc} 50/30°C.

Plate heat exchangers for Remeha by Baxi Quinta Ace S - 130kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	261.2	11.23	RHB-110-100	12.58
3	391.8	16.85	RMB-235-80	11.08
4	522.4	22.46	RMB-235-100	12.71
5	653.0	28.08	RMB-235-120	14.91
6	783.6	33.70	RMB-235-140	16.25
7	914.2	39.31	RMB-235-180	14.62
8	1044.8	44.93	RMB-235-220	14.25

(1) Nominal output P_{nc} 50/30°C.

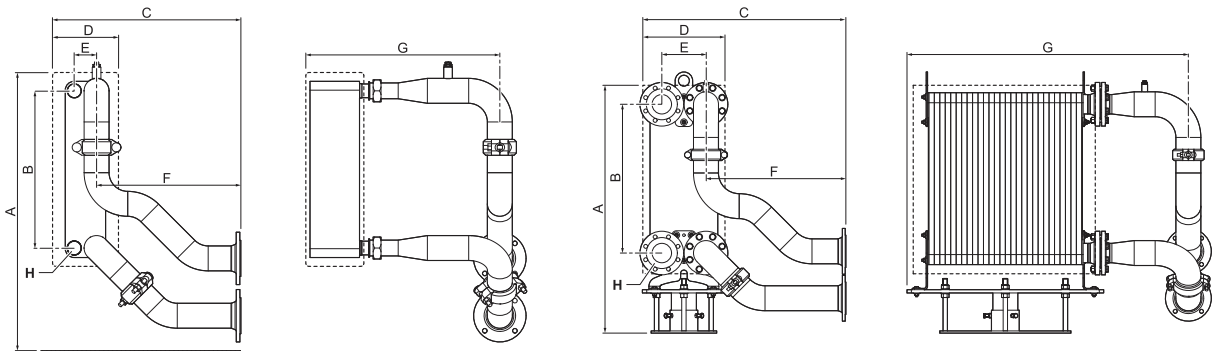
Plate heat exchangers for Remeha by Baxi Quinta Ace S - 150kW

Number of boilers	Output ⁽¹⁾	Total flow	Heat exchanger type	Heat exchanger pressure drop
	kW	m³/h		kPa
2	301.8	12.98	RMB-235-80	6.74
3	452.7	19.47	RMB-235-140	5.69
4	603.6	25.96	RMB-235-200	5.64
5	754.5	32.44	RMB-235-280	5.74
6	905.4	38.93	RMB-235-280	8.12
7	1056.3	45.42	RMB-235-280	10.96
8	1207.2	51.91	RMB-235-280	14.22

(1) Nominal output P_{nc} 50/30°C.

Cascade Options

Dimensions and connections - Plate heat exchangers

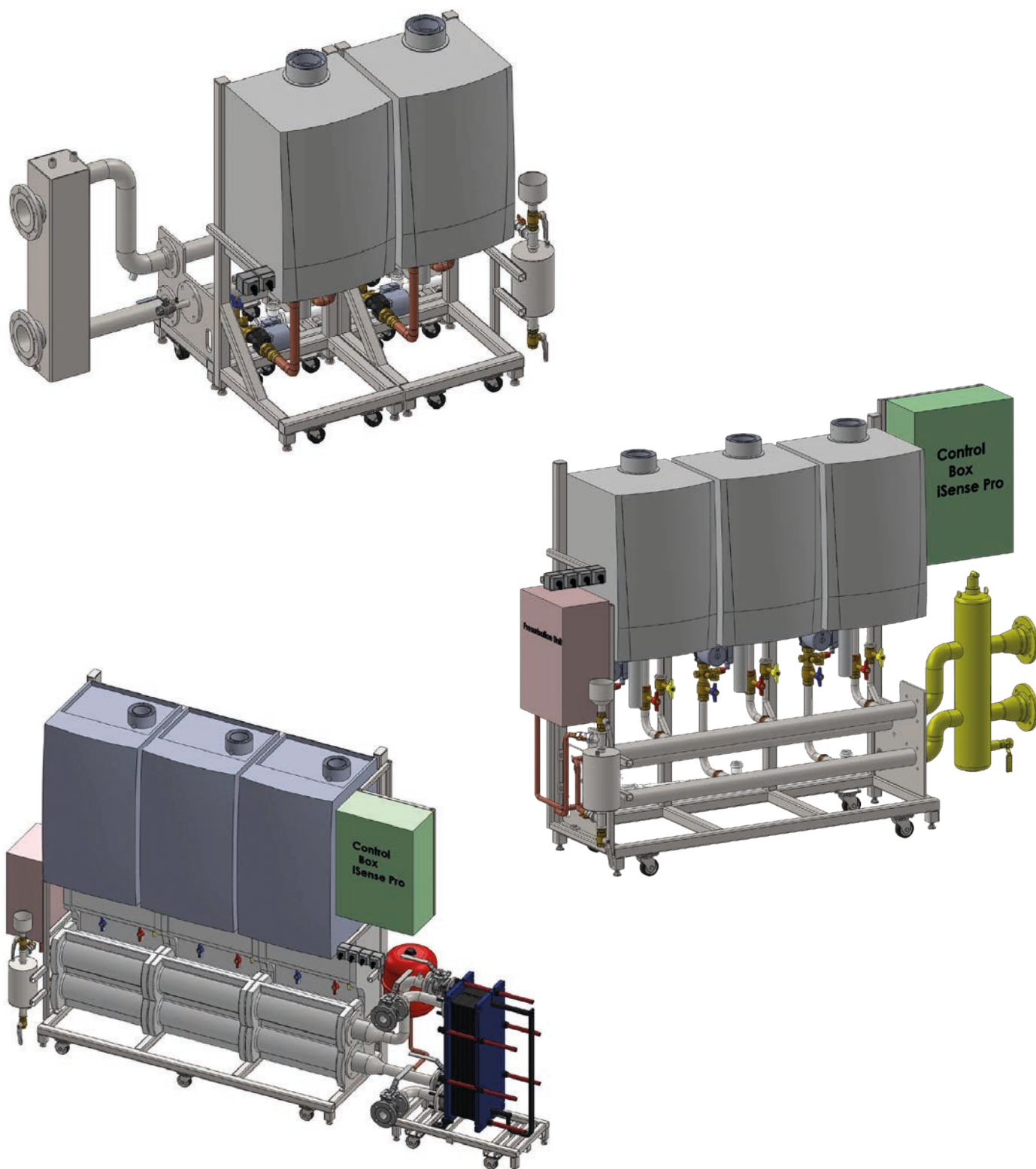


Dimension	A	B	C	D	E	F	G	H
Description	Total height	Flange distance	Total depth	Depth	Flange distance	Connection depth	Total width	Connection size
RHB-60-60	752	480	617	201	68	400	604	1 1/4" outer thread
RHB-60-80	752	480	617	248	68	400	651	1 1/4" outer thread
RHB-60-100	752	480	617	295	68	400	698	1 1/4" outer thread
RHB-60-120	752	480	617	342	68	400	745	1 1/4" outer thread
RHB-60-140	752	480	617	389	68	400	792	1 1/4" outer thread
RHB-110-80	964	520	684	308	91	400	703	2" outer thread
RHB-110-100	964	520	684	360	91	400	755	2" outer thread
RHB-110-120	964	520	684	412	91	400	807	2" outer thread
RHB-110-140	977	520	698	526	91	400	890	2" outer thread
RHB-110-160	964	520	684	516	91	400	911	2" outer thread
RHB-110-180	964	520	684	568	91	400	963	2" outer thread
RMB-235-80	1140	682	1016	333	204	400	757	DN80
RMB-235-100	1140	682	1016	383	204	400	807	DN80
RMB-235-120	1140	682	1016	433	204	400	857	DN80
RMB-235-140	1140	682	1016	483	204	400	907	DN80
RMB-235-160	1140	682	1016	533	204	400	957	DN80
RMB-235-180	1140	682	1016	583	204	400	1007	DN80
RMB-235-200	1140	682	1016	633	204	400	1057	DN80
RMB-235-220	1140	682	1016	683	204	400	1107	DN80
RMB-235-240	1140	682	1016	733	204	400	1157	DN80
RMB-235-260	1140	682	1016	783	204	400	1207	DN80
RMB-235-280	1140	682	1016	833	204	400	1257	DN80

Plate heat exchanger dimensions in mm.

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We provide a bespoke pre-assembled rig system to support consultants in overcoming plant room limitations and tight deadlines. These rigs are designed and manufactured to meet the exact requirements of each individual project so that they can be installed in a fraction of the time. This solution is particularly beneficial for organisations restricted to a small window of time in which to carry out installation as the rigs are supplied pre-assembled. For more information, please contact our Sales Team. You can find your local dedicated Remeha by Baxi expert on our website: remeha.co.uk



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- BIM files
- CAD files
- Energy-related products directive data
- Commissioning
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- Spare parts (aftersales)

Declaration of compliance

Our company declares that these products are marked and in compliance with the essential requirements of the following Directives:

The boiler meets the requirements of the EC regulations and directives:

- Gas Regulations (EU) 2016/426
- Boiler Efficiency Directive 92/42/EEC
- Electromagnetic Compatibility Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- Ecodesign directive 2009/125/EC
- Regulation (EU) No 2017/1369 (for boilers with Power<70kW)
- Ecodesign regulation (EU) No 813/2013
- Energy labelling regulation (EU) No 811/2013 (for boilers with Power<70kW)
- CE Certification: Remeha by Baxi Quinta Ace S 50, 60, 70, 90, 110, 130 and 150 PIN: 0085DP0589

Our call our sales and technical departments on 0345 070 1055 we're always happy to help.





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