Gas 220 Ace.

Specification guide

remeha

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20% Hydrogen

Remeha, the expert choice.

Complete commercial solutions from the experts in sustainable heating and hot water.

Choose Remeha's advanced commercial 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 is second to none.

Introducing the Remeha Gas 220 Ace Range.

The Gas 220 Ace range is based upon proven technology. It is a new generation floor-standing boiler, with a new aluminium monobloc platform and an even higher output to physical size ratio.

Available in 160, 200, 250 and 300kW models – designed for central heating and indirect hot water production at working pressures up to five bar on the 160 and six bar on the other models. The Gas 220 Ace is perfect for both new and retrofit applications and can be installed in most situations thanks to its conventional and room-sealed flue capability. Its even smaller footprint and ability to be installed in-line and back-to-back make it suited for modular configurations.

Features and benefits

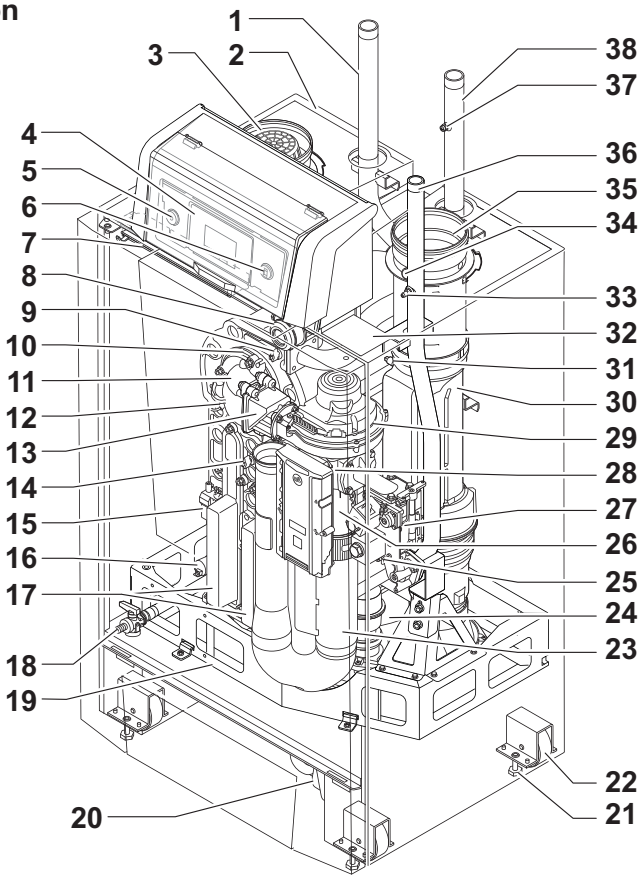
High output to physical size ratio	Plant room space reduction and easier access through doors and in lifts
All connections and pipework enter the top of the boiler – Gas 220 Ace models can be positioned in-line or back-to-back	Can be used in modular configuration enabling large outputs to be installed in difficult to reach areas
Compact, lightweight and supplied with integral wheels	Can be delivered through a standard door and is easy to manoeuvre in the plant room
Flushing points and removable front section as standard	For ease of cleaning and hassle-free servicing
'Click and Go' condensate drain underneath the boiler – not inside	Ease of installation and servicing – no boiler disassembly required
Inbuilt flue non-return valve	Ease of installation – multiple Gas 220 Ace models can be flued together in a common flue header without the risk of flue gases entering the other boilers
Multiple flueing capabilities	Flexible installation in new and existing buildings
LED illuminated casing air box	Aids servicing in plant rooms
Built on the new aluminium monobloc platform	Single piece stress free casting for efficiency and durability
High efficiency boiler up to 95.9% GCV	Energy savings – reducing gas consumption
Ultra-low, Class 6 NO_x emission levels of 40 mg/kWh 0% O2 dry – EN15502	Low pollutant emissions that meet ERP regulations and London Plan targets (SPG 2014)
Optional high temperature secondary return kit	Optimised operation with variable temperature systems and low carbon technologies
Time and temperature controls supplied as standard	Ease of use – time and temperatures can be set and controlled by the end user
Inbuilt 0-10v and volt free contacts	Can connect to any Building Management System (BMS) without additional parts needed
Tuned noise dampers as standard	Lower noise and resonance

Certified to work with 20% hydrogen


GAS 220 ACE

Gas 220 Ace
boiler construction.

Typical boiler construction



Key

1	LTHW return pipe	14	Temperature sensor for heat exchanger	27	Gas valve unit
2	Casing/air box	15	Ignition transformer	28	Control unit (CU – GH)
3	Air supply	16	Hydraulic pressure sensor	29	Fan
4	Control panel	17	Heat exchanger inspection hatch	30	Flue gas connection pipe
5	On/off switch	18	Filling/drain valve	31	Flue gas sensor
6	Service connector (PC connector)	19	Frame	32	Support
7	LED interior light	20	Siphon	33	Gas pressure measuring point
8	Air pressure differential switch	21	Adjustable leg	34	Flue gas measuring point
9	Flow sensor	22	Transport wheel	35	Flue gas outlet
10	Burner	23	Air intake silencer	36	Gas connection
11	Combustion connection	24	Condensate collector	37	Manual air vent
12	Heat exchanger	25	Gas pressure measuring point	38	LTHW flow pipe
13	Burner fan (flue) non-return valve	26	Venturi		

Gas 220 Ace
operating principle.

Combustion air is drawn into the closed air box through the air inlet by a variable speed fan. The inlet side of the fan is fitted with a Venturi, where air and gas are mixed according to a fixed ratio. This ensures precise combustion.

The mixture is initially ignited by the combined ignition / ionisation probe which monitors the state of the flame. If the flame is unstable or doesn't ignite within the pre-set safety time cycle, the controls will shut the boiler down (after five attempts) and the boiler will need to be manually reset. The digital display will indicate a flashing fault code confirming the reason for failure

The products of combustion, in the form of hot flue gases, are forced through the heat exchanger transferring the heat to the system water (the flue gas temperature is reduced to approximately 5ºC above the temperature of the system return water), then discharged vertically via the condensate collector, through the 150mm or 200mm connection to the atmosphere.

Because of the low flue gas exit temperature, a vapour cloud will form at the flue gas terminal – this is water vapour formed during the combustion process.

If the controls allow the flow and therefore the return temperature to fall below dew point (55ºC), this water vapour will begin to condense in the boiler, transferring its latent heat into the system water, increasing the output of the boiler without increasing gas consumption.

Condensation formed within the boiler and flue system is discharged from the boiler to an external drain, via the drain pan and siphon supplied.

As an option, the boiler can be supplied with a second (fixed temperature) return connection. This additional connection enables the boiler to make full use of its condensing ability whilst accepting both fixed and variable temperature returns from the same system.

Gas 220 Ace
technical information.

	160	200	250	300
Performance				
Nominal output (kW) central heating operation (80/60°C) min-max	31.5-152.1	39.4-194.4	49.2-243.3	59.0-290.9
Nominal output (kW) central heating operation (50/30°C) min-max	34.7-161.1	43.2-209.8	54.1-261.0	65.0-310.7
Nominal input (kW) central heating operation (Hi) min-max kW	32-156	40-200	50-250	60-299
Efficiency				
Part L 2 seasonal efficiency GCV (%)	95.9	95.5	95.6	95.8
Full load central heating efficiency (Hi) (80/60°C) (92/42/EEC) (%)	97.5	97.2	97.3	97.3
Part load central heating efficiency (92/42/EEC) (return temperature 30°C) (%)	108.5	108	108.2	108.4
Useful efficiency at rated heat output and high temperature regime (ErP) η_4 (%)	87.8	87.6	87.7	87.7
Useful heat output at 30% of rated heat output and low temperature regime (ErP) η_1 (%)	97.8	97.3	97.5	97.7
Gas				
Standard fuel	Natural gas	Natural gas	Natural gas	Natural gas
Optional fuel adjustment –see installation manual	LPG (propane)	LPG (propane)	LPG (propane)	LPG (propane)
Gas consumption G20 (H gas) min-max (m^3/h)	3.4-16.5	4.2-21.2	5.3-26.5	6.3-31.6
Gas consumption G31 (propane) min-max (m^3/h)	1.4-6.3	1.6-8.2	2.1-10.2	6.3-31.6
Gas inlet pressure G20 (H gas) min-max (Mbar)	17-25	17-25	17-25	17-25
Gas inlet pressure G31 (propane) min-max (Mbar)	37-50	37-50	37-50	37-50
Gas connection size BSP inches (")	1" Male thread	1½" Male threaded	1½" Male threaded	1½" Male threaded
Flame protection	Ionisation	Ionisation	Ionisation	Ionisation
Ignition	Electronic	Electronic	Electronic	Electronic
Flue (supplied as standard for conventional flue, option for room sealed available)				
Flue diameter I/D (mm)	150	200	200	200
Air inlet diameter mm I/D (mm)	150	200	200	200
Flue gas quantity (1) min-max (kg/h)	57-277	71-355	89-444	107-531
Maximum counter pressure (Pa)	200	150	150	150

Gas 220 Ace
technical information.

	160	200	250	300
Performance				
Water content (ltr)	17	33	33	33
Hydraulic resistance (ΔT=20k) (Mbar)	190	100	150	200
Nominal flow rate (ΔT=20k) (l/s)	1.82	2.33	2.91	3.48
Condensate connection (OD mm)	40	40	40	40
Connection size BSP inches flow/return (“) (mm)	1¼“ (40mm)	2“ (50mm)	2“ (50mm)	2“ (50mm)
Standard operating temperature (°C)	20-90	20-90	20-90	20-90
Maximum operating temperature (°C)	90	90	90	90
Maximum water temperature (°C)	110	110	110	110
Maximum water operating pressure (bar)	5	5	5	5
Minimum water operating pressure (bar)	0.8	0.8	0.8	0.8
General				
Boiler weight (kg)	205	245	245	245
Dimensions (WxHxD)	800 x 1662 x 657	800 x 1662 x 657	800 x 1662 x 657	800 x 1662 x 657
BREEAM NO_x (mg/kWh)	36	40	38	35
Electrical				
Nominal power (VAC/Hz)	230/50	230/50	230/50	230/50
Power consumption min-max (w)	47-275	57-204	57-323	48-343
Modulating input (v. dc)	0-10	0-10	0-10	0-10
Fuse rating (amps)	6.3	6.3	6.3	6.3
Electrical protection index (IP)	IPX1B	IPX1B	IPX1B	IPX1B

Suggested engineering specification
Gas 220 Ace.

Construction

The boiler shall be a pre-assembled, free-standing, gas-fired, high efficiency condensing boiler. The monobloc single piece cast aluminium heat exchanger and other major components shall be contained within a sealed air box. This shall form the main boiler casing with a removable front panel section for maintenance and cleaning purposes. All electrical and electronic controls shall be contained within the instrument panel mounted on top of the boiler. The boiler shall be shipped fully assembled with heavy duty castors fixed from factory to the boiler to enable ease of installation.

The boiler shall be tested before leaving the factory for the following:

- Electrical safety
- Water tightness
- Gas tightness
- Function testing

Hydraulic, Gas and Flue Connections

The flue gas outlet, combustion air inlet, flow, return and gas connections shall be located on top of the boiler with a condensate connection at low level behind a magnetic locked door. The boiler shall be suitable for room-sealed or open-flue applications. The boiler shall be able to operate up to working pressures not exceeding 5.0 bar (for the 160 and 6.0 bar for the 200, 250 and 300 models) with a minimum 0.8 bar required for the range.

Operation Principle

The boiler shall 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 shall be complete with a pre-mix burner (NG or LPG) with the gas/air ratio control system controlled internally. The combustion air shall be checked once every 24hrs or during each burner start automatically by the boiler controls. Flue gas temperature and hydraulic pressure shall be monitored automatically to ensure safe operation. An intelligent, advanced boiler control system shall continuously monitor the boiler conditions, varying the heat to suit the system load. The control shall 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 lock out condition. Should a negative effect happen in the system the boiler reduces its output and/or shuts down (shut-off mode), awaiting the negative conditions to return to normal before restarting.

Heat output shall be maintained as long as the negative condition is not dangerous. Standard frost protection shall operate as follows:

- At a water temperature lower than 7°C, shunt pump starts (if controlled by the boiler)
- If the water temperature is lower than 4°C, the boiler switches on
- If the water temperature is higher than 10°C the boiler switches off and the circulation pump continues to run for a short time

Controls

The boiler shall include a controls package that allows 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 as standard shall be the following inputs/outputs:

- 0-10V input (flow or load control)
- Outside temperature input
- Shunt pump modulation control
- High limit lock out
- Low water protection
- Safety/shutdown/release input
- Calorifier pump control primary (optional)
- Three way valve control (optional)
- VT pump control (optional)
- System status output (optional)
- Boiler, VT and optional outside temperature sensors
- Room thermostat control (optional)

Features

- Ultra-low NO_x ≤40mg/kWh
- Modulating 18-100%
- Data file for storing fault/run info
- ErP compliant
- PC connection for servicing
- Premix burner

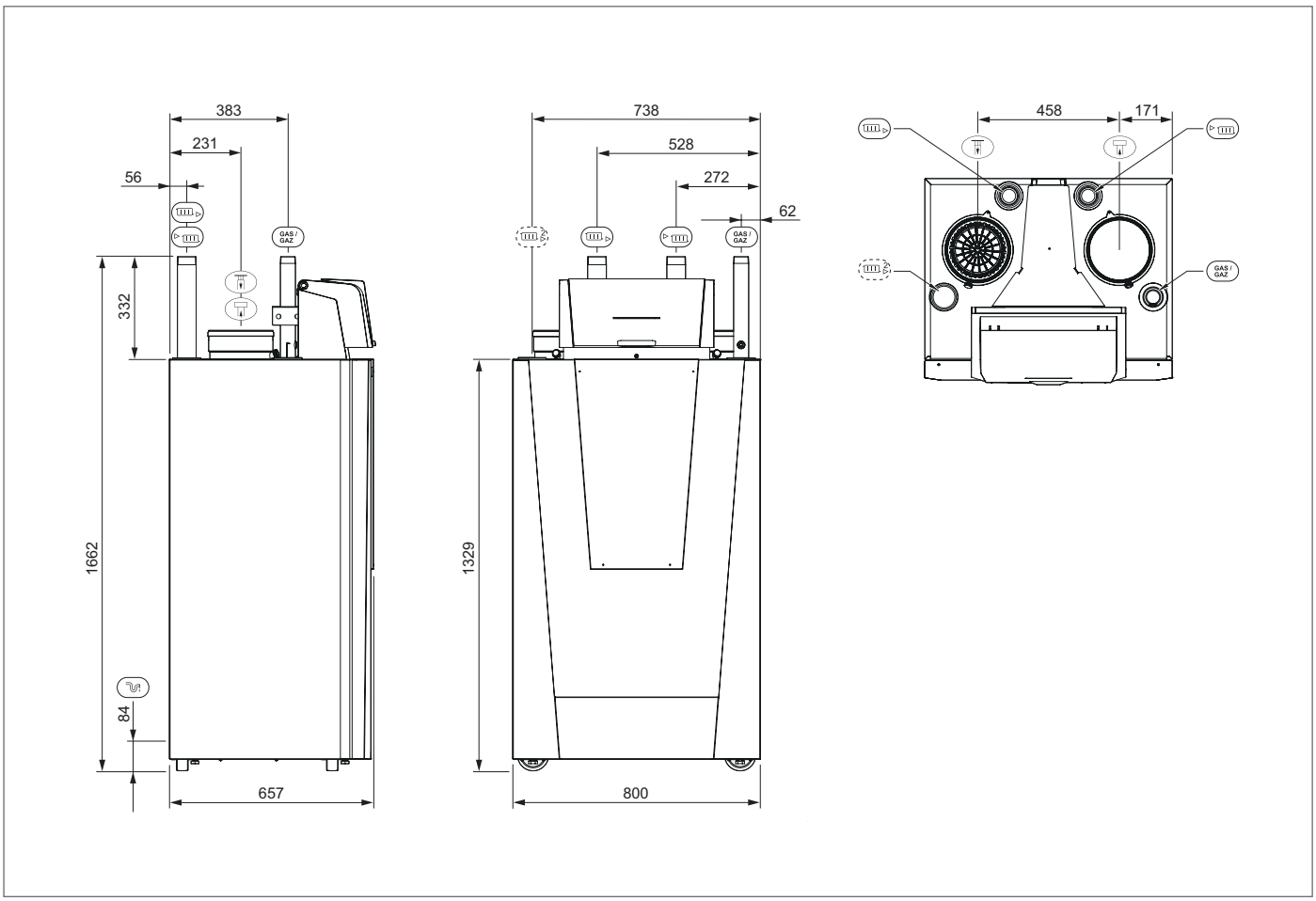
The Gas 220 Ace range of boilers conform with the following EC - Directives:

- GAR (EU) 2016/426 to EN 15502-1: 2012 + A1: 2015 EN 15502-2-1: 2012
- BED (92/42/EEC to EN 15502-1: 2012 + A1: 2015 EN 15502-2-1: 2012
- EMC (2014/30/EU) to EN 55014-1 2007 + A1: 2009 + A2: 2011 EN 55014-2: 2015 EN 61000-3-2: 2014 EN 61000-3-3: 2013
- LVD (2014/35/EU) EN 60335-2-102: 2016 CE16
- ErP (2009/125/EC)
- CE Certification Remeha Gas 220 ACE Range PIN: 0063CQ3781

Gas 220 Ace
dimensions.

The small footprint of the Gas 220 Ace range and its space-saving configurations makes it particularly suitable for retrofit applications.

Gas 220 Ace dimensions

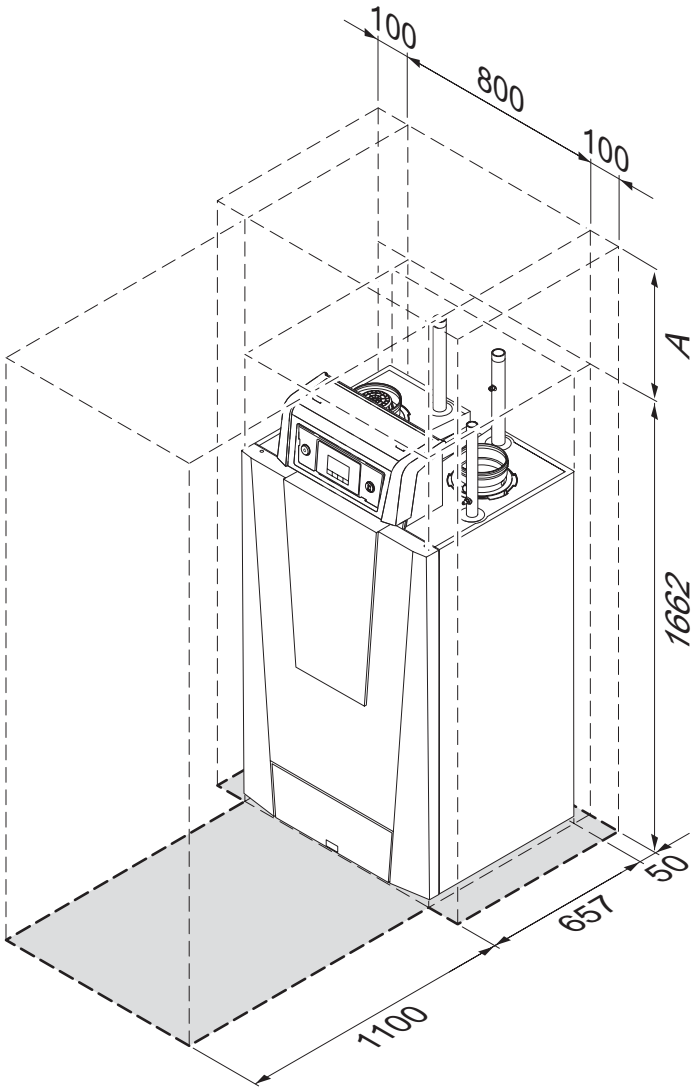


Connection	Gas 220 Ace-160	Gas 220 Ace-200	Gas 220 Ace-250	Gas 220 Ace-300
Flue gas outlet	Ø 150mm	Ø 200mm	Ø 200mm	Ø 200mm
Inlet air supply	Ø 150mm	Ø 200mm	Ø 200mm	Ø 200mm
Gas connection	1” Male threaded	1½” Male threaded	1½” Male threaded	1½” Male threaded
Flow connection	1¼“ (40mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded
Return connection	1¼“ (40mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded
Second return connection (optional)	1¼“ (40mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded	2” (50mm) Male threaded

Layout and service clearances.

The boiler can be installed in-line or back-to-back depending on plant room access for maintenance.

Gas 220 Ace clearances

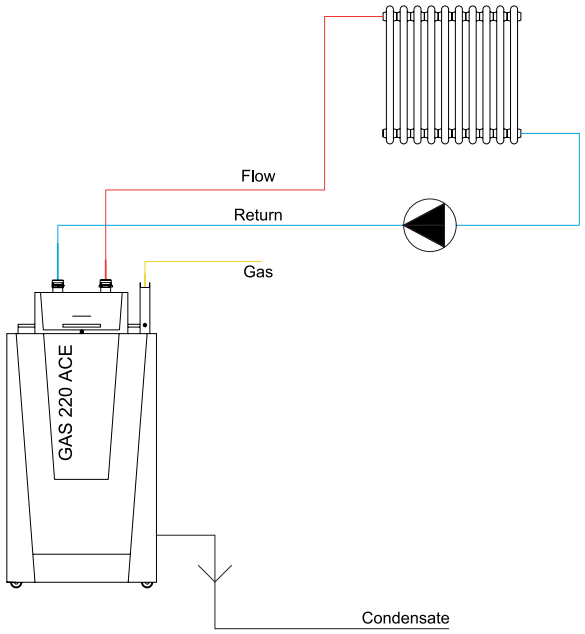


Dimension A:
500mm (If the air supply filter is used, there must be a clearance of at least 650mm.)

Recommended distances/clearances.

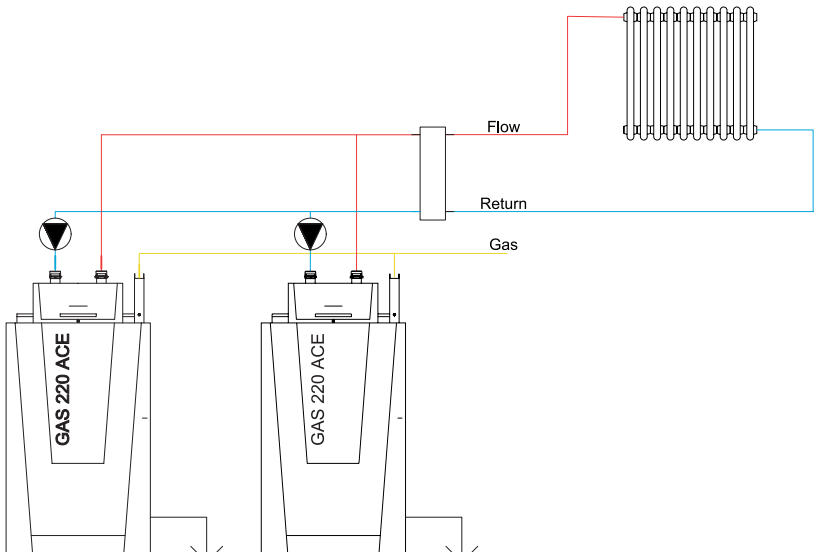
Typical
installation.

Single boiler



Gas 220 Ace.
Floor-standing Condensing Boiler.

Multiple boilers



Gas 220 Ace.
2 Floor-standing Condensing Boilers.

Master Boiler

Slave Boiler

For illustration purposes only.

Electrical connections.

General

The Gas 220 Ace is supplied as standard with electrical control and flame ionisation safety controls, with a specially designed microprocessor at the heart of the control system.

Specifications

Electrical supply

The Gas 220 Ace is suitable for a supply of 230V-1-50Hz 6.3 amp with phase/neutral/earth. Note: The sensor cables should be separate from the 230V cables.

Power consumption at standby/part load/full load

Gas 220 Ace			160	200	250	300
Supply Voltage		VAC/ Hz	230/50	230/50	230/50	230/50
Power consumption	Max	W	275.0	204.0	323.0	343.0
Power consumption – low load	Min	W	47.0	57.0	57.0	48.0
Power consumption – standby	Min	W	5.3	11.0	11.0	9.0
Electrical protection index		IP	IPX1B	IPX1B	IPX1B	IPX1B
Fuses	Main PCU	A	6.3 1.6	6.3 1.6	6.3 1.6	6.3 1.6

Automatic controls (PCBs)

- SIT
- Type: CU-GH06 and SCB01

Fuse specification

The boiler is protected by fuses:

- Supply voltage – 230 VAC/50 Hz
- Main fuse value F1 (230 VAC) – 6.3 amps (CB-01)
- Fuse value F2 (230 VAC) – 1.6 amps (CU-GH08) Integral / Non-Replaceable
- Fan – 230 VAC

Boiler temperature control

The Gas 220 Ace has electronic temperature control with flow, return and heat exchanger temperature sensors.

Regulating the water temperature

The flow temperature can be adjusted between 20°C and 90°C.

The boiler modulates back when the set flow temperature is reached. The switch-off temperature is the set flow temperature +5°C.

Shortage Of Water (Low Water) Protection

The boiler is fitted with low water level protection based on temperature measurements. By modulating back when the water flow threatens to become insufficient, the boiler remains operational as long as possible. The boiler issues a warning in the event of no or too little water.

Water Flow

The modulating control limits the maximum difference between the flow and return temperatures. Additionally a temperature sensor in the heat exchanger limits the maximum increase in the heat exchanger temperature.

Hydraulic pressure sensor

The hydraulic pressure sensor records the water pressure in the boiler.

Flue gas sensor

The boiler is fitted as standard with a flue gas sensor. When the exhaust gas temperature is too high, the boiler will lock out (fault). Once the fault has been remedied, the boiler can be unlocked.

Air pressure differential switch – The air pressure differential switch is a protection against a blocked trap or blocked air supply/flue gas outlet.

External Connections

The connection box with the terminals of the connector for external connections is located behind the control panel. The wiring for external connections is fed through a cable duct to the back of the boiler. The connection box contains the standard PCB CB-01 and positions for the optional PCB(s) for the external connections. The connection box is included with the delivery of the boiler as standard. Use the connection cables supplied as standard to connect the connection box to the control panel.

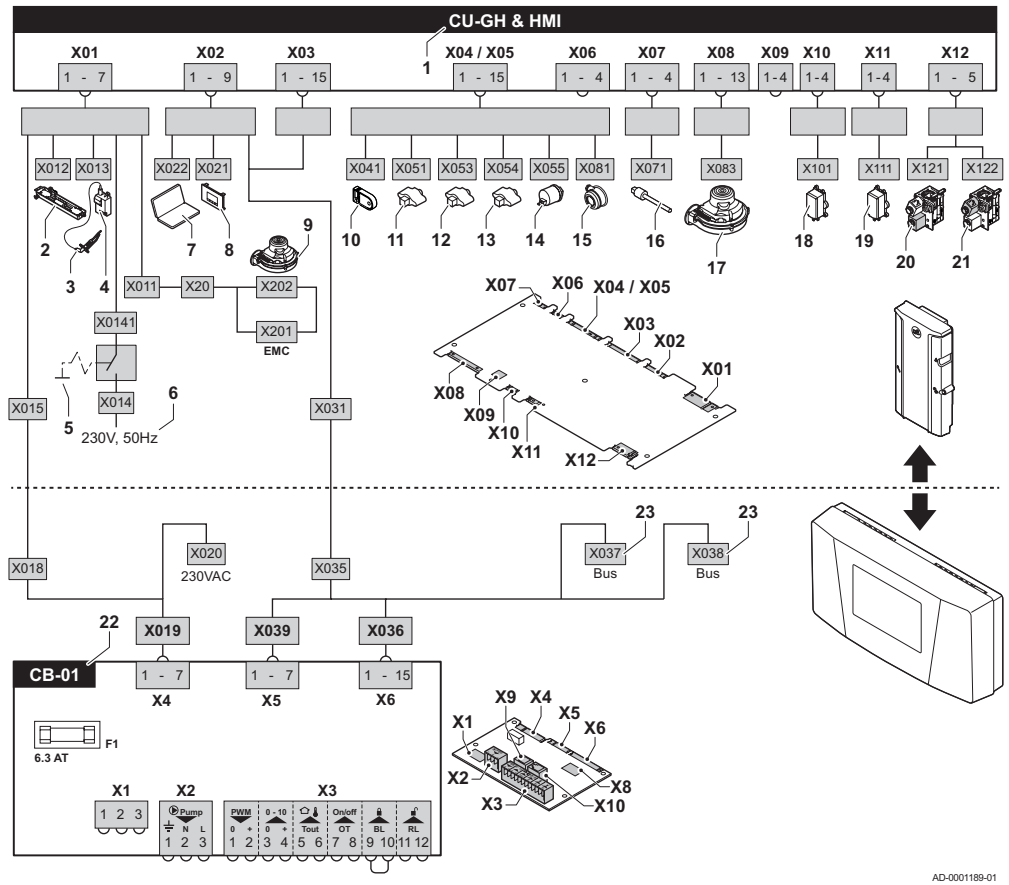
Controls

The boiler is supplied with the following standard control:

- On/off control
- Modulation regulation
- Open therm (OT)
- Blocking input (BL
- Input release (RL)
- Pump (output) - modulation signal

Electrical
connections.

Standard control PCB (CU-GH) with standard PCB (CB-01)



Key			
1	Boiler control unit	13	Return temperature sensors (RTs)
2	Lighting	14	Hydraulic pressure sensor (WPs)
3	Ionisation/ignition electrode (E)	15	Air pressure differential switch (PS)
4	Ignition transformer (IT)	16	Flue gas sensor (FGs)
5	On/off switch (AU)	17	Pump control (PWM)
6	Power supply (P)	18	Gas leakage control VPS
7	Service connector/computer connection	19	Gas pressure switch GPS
8	Control panel (HMI)	20	Gas valve 1
9	Fan supply (P)	21	Gas valve 2
10	Storage parameter (PSU)	22	Standard PCB
11	Flow sensor (FTs)	23	L-Bus connections for extra PCBs
12	Heat exchanger temperature sensor (HEs)		

Boiler
control.

The heat output of the Gas 220 Ace can be controlled as follows:

- On/off control – The heat input varies between the minimum and maximum values on the basis of the flow temperature set on the boiler
- Modulating – The heat input varies between the minimum and maximum values on the basis of the flow temperature determined by the modulating controller. The boiler output can be modulated with an appropriate modulating controller
- Analogue control (0-10V) – The heat output % or the temperature output of the boiler is controlled via 0-10V values

Modulating controls general

The modulating nature of the boiler is used to maximum effect with a modulating controller based on room and/or outside temperatures. If the controller demands heat, the boiler supplies the heat output (providing the flow conditions have been met). If the controller supplies a calculated set point flow temperature, the boiler modulates to this calculated value (providing the flow conditions have been met). This increases the number of operating hours and drastically reduces the number of starts. Combined with the fixed gas/air mixture, this results in greater efficiency.

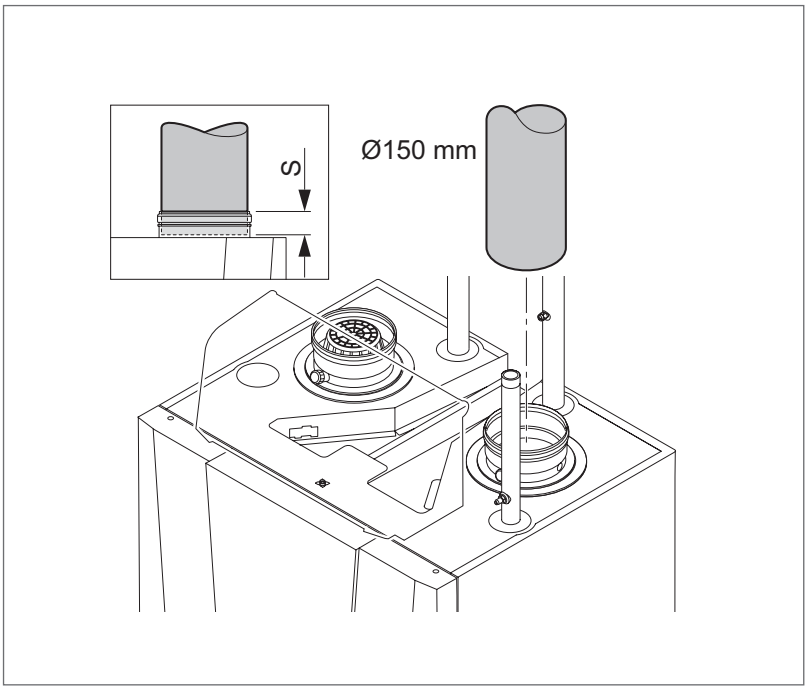
Boiler or system pump

A system pump can be connected to the boiler (230-1-50 supply max current rating of one amp). If the system pump requires more than one amp the terminals can only be used to provide a switch signal to a pump relay.

Boiler control and typical flue installations.

We're unable to offer a flue system and recommend the installer contacts flue specialist to design and manufacture the system in accordance with the requirements of the British Standards.

Conventional – room ventilated version (B_{23p})

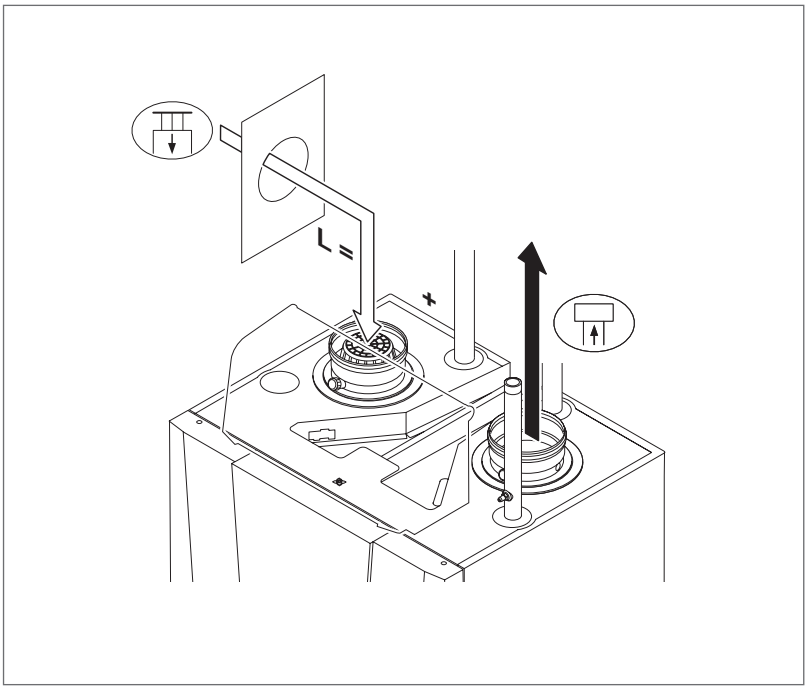


Maximum chimney length (L)			
Boiler type	Diameter		
	150mm	200mm	250mm
Gas 220 Ace 160	50m(1)	50m(1)	50mm(1)
Gas 220 Ace 200	35m	50m(1)	50mm(1)
Gas 220 Ace 250	21m	50m(1)	50mm(1)
Gas 220 Ace 300	15m	50m(1)	50mm(1)

(1) For longer flue lengths please contact Remeha technical department.

Note: Refer to the reduction table within the Installation Manual regarding reduction for 45 and 90 degree bends.

CLV (C53) system (two zone) – room-sealed version (c_{53})



Maximum chimney length (L)			
Boiler type	Diameter		
	150mm	200mm	250mm
Gas 220 Ace 160	64m	100m(1)	100m(1)
Gas 220 Ace 200	21m	100m(1)	100m(1)
Gas 220 Ace 250	11m	74m	100m(1)
Gas 220 Ace 300	5m	48m	100m(1)

(1) For longer flue lengths please contact Remeha technical department.

Note: Refer to the reduction table within the Installation Manual regarding reduction for 45 and 90 degree bends.

Cascade options.

Cascade Options

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

- Standby capability
- Better turndown ratio
- Improved design flexibility
- Quick and easy installation

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 system are available for independent cascade installation.

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

Gas 220 Ace cascade table dimensions DN 100

Boiler models	Cascade Layout	Boiler Modules	System Connections EN1092 – 1	Gas Connections EN1092 – 1	Dimensions WxDxH (mm)
All models	In-line	1	DN125 PN16 DIN 2633	DN65 PN16	2245 x 874 x 2282
All models	In-line	2	DN125 PN16 DIN 2633	DN65 PN16	3145 x 874 x 2282
All models	In-line	3	DN125 PN16 DIN 2633	DN65 PN16	4045 x 874 x 2282
All models	In-line	4	DN125 PN16 DIN 2633	DN65 PN16	4945 x 874 x 2282
All models	Back-to-back	2	DN125 PN16 DIN 2633	DN65 PN16	2245 x 1483 x 2282
All models	Back-to-back	3	DN125 PN16 DIN 2633	DN65 PN16	3145 x 1483 x 2282
All models	Back-to-back	4	DN125 PN16 DIN 2633	DN65 PN16	3145 x 1483 x 2282
160, 200, 250	Back-to-back	5	DN125 PN16 DIN 2633	DN65 PN16	4045 x 1483 x 2282
160, 200	Back-to-back	6	DN125 PN16 DIN 2633	DN65 PN16	4045 x 1483 x 2282
160	Back-to-back	7	DN125 PN16 DIN 2633	DN65 PN16	4945 x 1483 x 2282

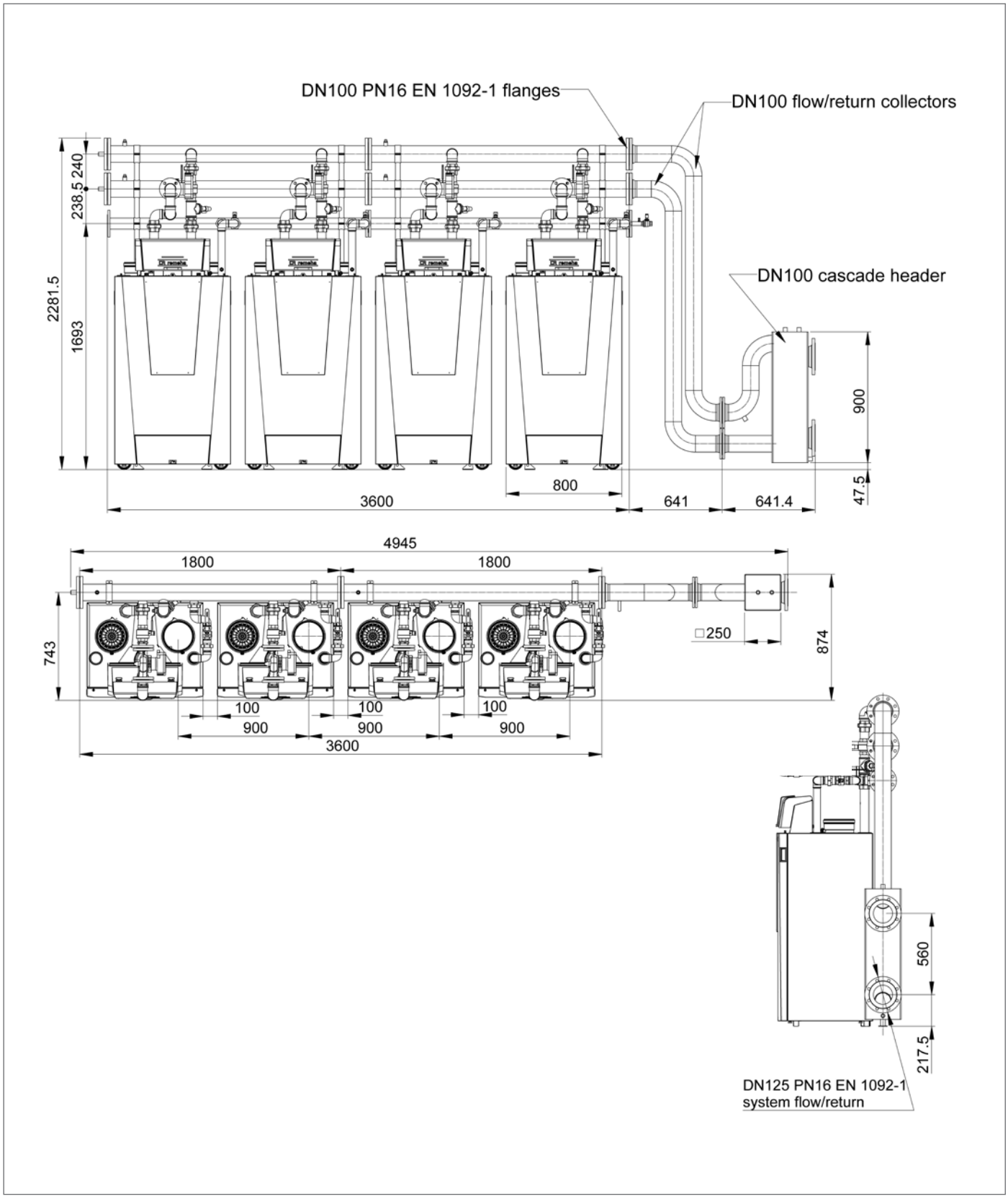
Gas 220 Ace cascade table dimensions DN 150

Boiler models	Cascade Layout	Boiler Modules	System Connections EN1092 – 1	Gas Connections EN1092 – 1	Dimensions WxDxH (mm)
300	Back-to-back	5	DN125 PN16 DIN 2633	DN100 PN16	4273 x 1594 x 2386
250, 300	Back-to-back	6	DN125 PN16 DIN 2633	DN100 PN16	4273 x 1594 x 2386
200, 250, 300	Back-to-back	7	DN125 PN16 DIN 2633	DN100 PN16	5173 x 1594 x 2386
All Models	Back-to-back	8	DN125 PN16 DIN 2633	DN100 PN16	5173 x 1594 x 2386

Notes: A technical clearance of at least 1100mm is required at the front (service side) of the boilers.
Refer to our Building Information Model (BIM) files for dimensional clearances around the cascade system.
A minimum clearance of 100mm is required for the last boiler opposite the low loss header.
A minimum clearance of 50mm is required at the back of the cascade boilers (In-line boilers only).

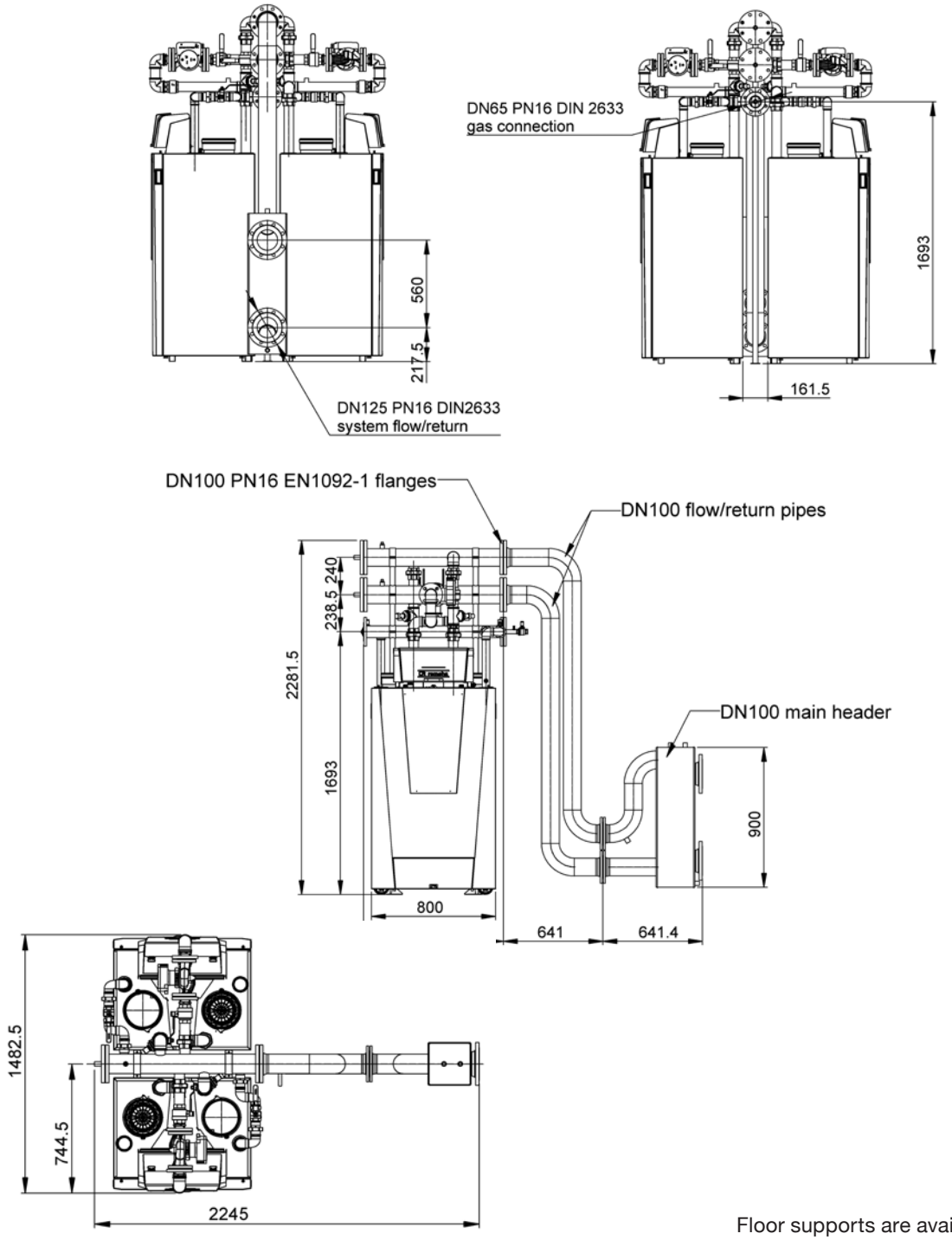
Cascade
options inline.

Four boilers inline



Cascade
options inline.

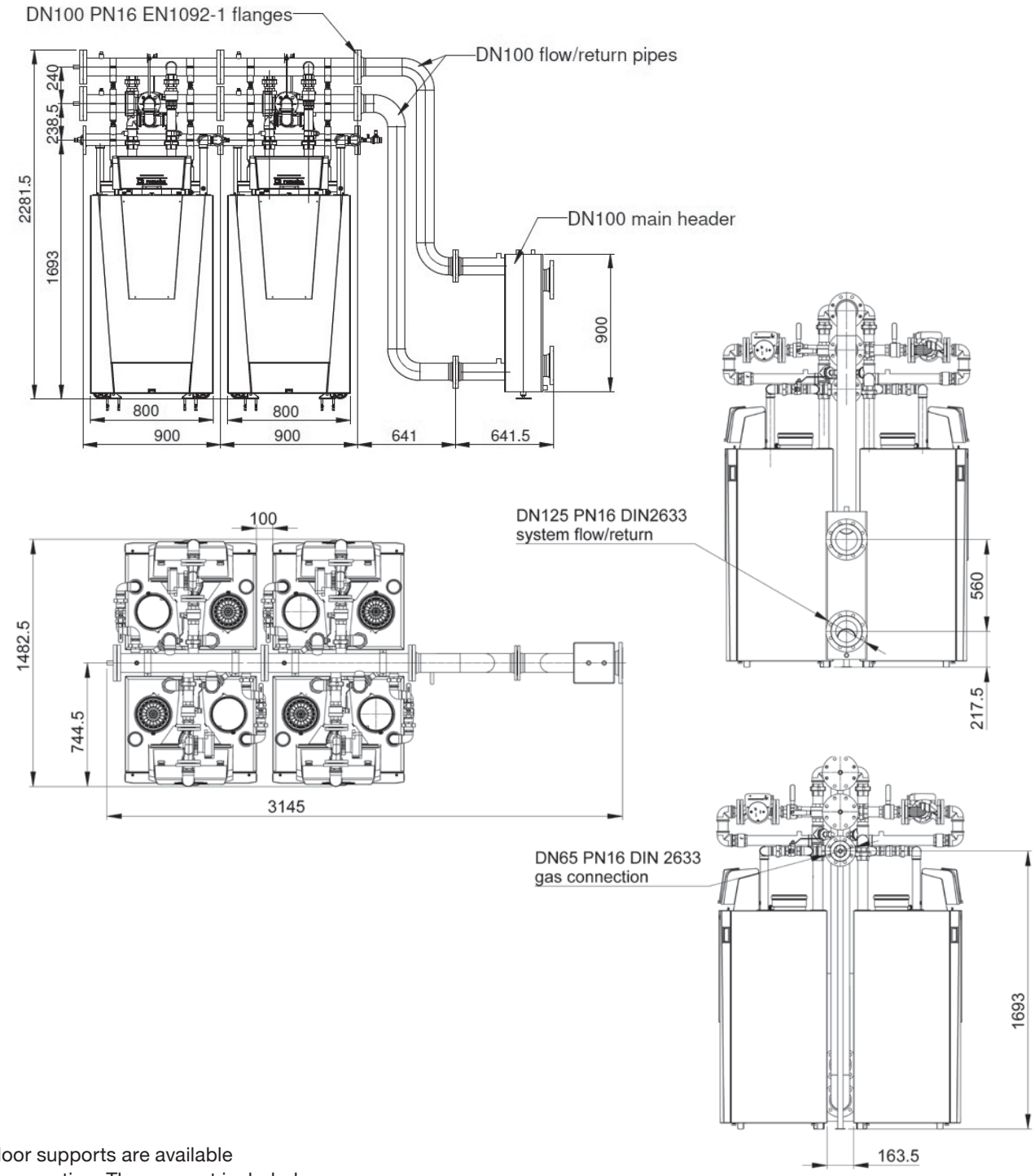
Two boilers back-to-back



Floor supports are available as an option. They are not included in the standard kit.

Cascade
options inline.

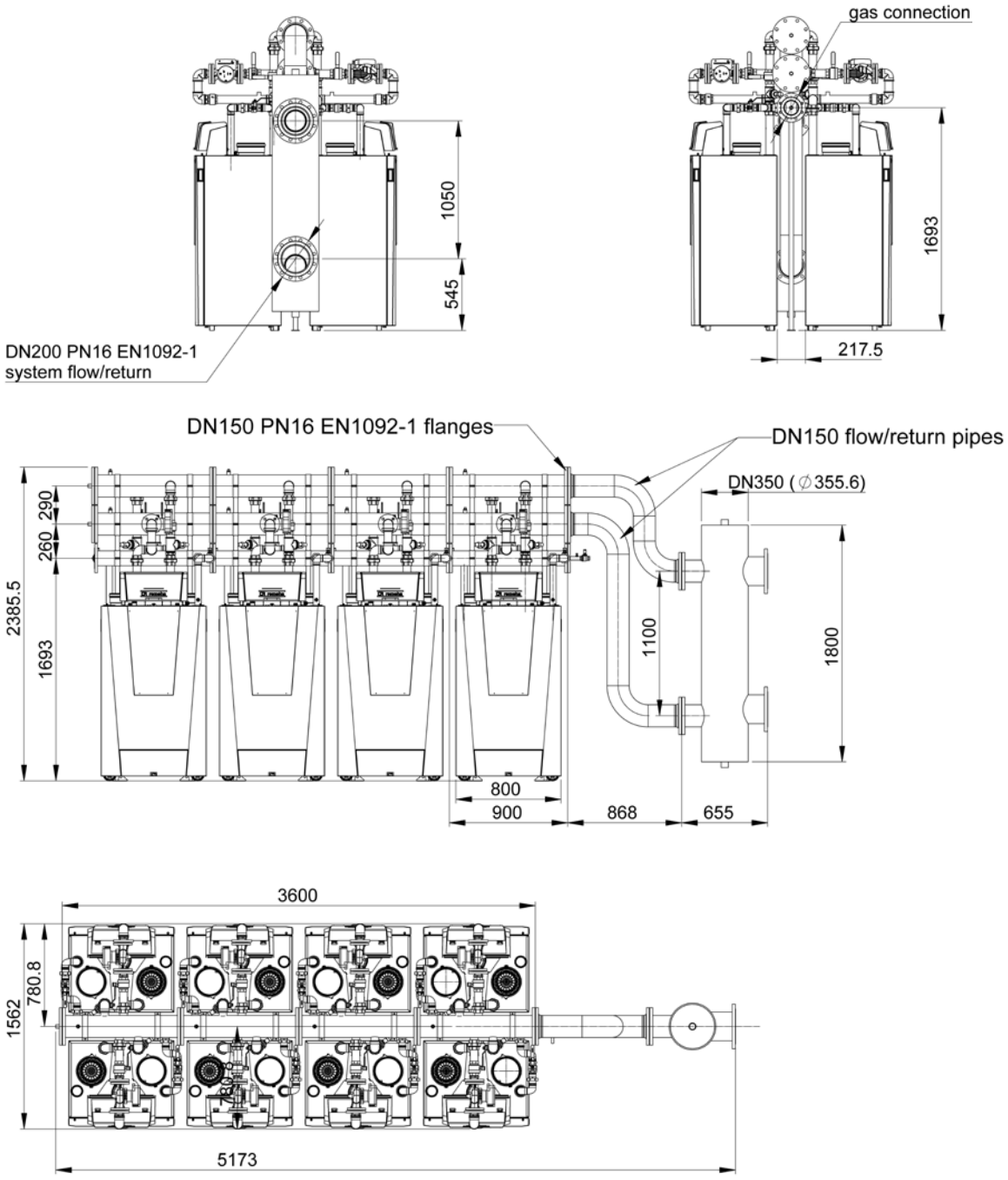
Two boilers back-to-back



Floor supports are available as an option. They are not included in the standard kit.

Cascade
options inline.

Eight boilers back-to-back



Floor supports are available as an option. They are not included in the standard kit.

Technical support and declaration of compliance.

Technical support

From brochures to CAD drawings and BIM files, you can access all the information you need at **remeha.co.uk**

Or call our sales or technical departments on **0345 070 1055.**

We're always happy to help.

We can provide you with:

- Brochures
- Technical specification sheets
- Case studies
- Installation manuals
- BIM files
- CAD files
- Energy-related products directive data
- Commissioning
- Technical information
- Spare parts (after sales)

Declaration of compliance

We hereby certify that the series of appliances specified herein is in compliance with the standard model described in the EC declaration of compliance, and that it is manufactured and marketed in compliance with the requirements and standards of the following European Directives:

- GAR (EU) 2016/426 to EN 15502-1: 2012 + A1: 2015
  EN 15502-2-1: 2012
- BED (92/42/EEC to EN 15502-1: 2012 + A1: 2015
  EN 15502-2-1: 2012
- EMC (2014/30/EU) to EN 55014-1 2007 + A1: 2009 + A2: 2011
  EN 55014-2: 2015
  EN 61000-3-2: 2014
  EN 61000-3-3: 2013
- LVD (2014/35/EU) EN 60335-2-102: 2016 CE16
- ErP (2009/125/EC)
- CE Certification Remeha Gas 220 Ace
  Range PIN: 0063CQ3781

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