BOSCH
Hot Water & Heating

Bosch Condens 5000W

Condensing hydronic heating boilers, fluing components and accessories

GERMAN TECHNOLOGY · GERMAN TECHNOLOGY ·

The Bosch Condens 5000W range offers:

- Condensing technology, saving you money
- Over 90% energy efficiency
- 18kW & 30kW system boiler for central heating
- 37kW combi boiler for heating and hot water
- Sophisticated controllers available for increased efficiency

Bosch 5000W Condens Product Range

- Condensing technology, saving you money
- Over 90% energy efficiency
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SPECIFICATIONS	MODELS		
Rated heat output	18 kW	30 kW	37 kW
Country of origin	U.K	Germany	Germany
Part numbers - NG model	7716130186	7738100005	7738100003
Part numbers - LPG model	7716130187	7738100006	7738100004
Ignition	Electronic	Electronic	Electronic
Installation	Internal (requires optional flueing components) or External (requires optional outdoor casing)		
Gas type	NG / LPG	NG / LPG	NG / LPG
Nominal Gas Consumption (NG & LPG) (Mj/H) – Central Heating (CH)	75	130	130
Nominal Gas Consumption (NG & LPG) (Mj/H) – Domestic Hot Water (DHW)	n/a	n/a	160
DHW l/min @ 25°C temp rise	n/a	n/a	21
Energy efficiency at 80°C (CH supply temp)	91%	91%	91%
Gas supply pressure (kPa)	1.13 (NG) 2.75 (LPG)	1.13 (NG) 2.75 (LPG)	1.13 (NG) 2.75 (LPG)
Expansion tank (ltr)	8	10	10
Minimum Working Water Pressure (kPa)	CH: 100 DHW: n/a	CH: 100 DHW: n/a	CH: 100 DHW: 300
Maximum Working Water Pressure (kPa)	CH: 265 DHW: n/a	CH: 265 DHW: n/a	CH: 265 DHW: 1000
Net Weight (KG)	27.1	46.5	48.5
DIMENSIONS			
Height (mm)	700	750	750
Width (mm)	400	440	440
Depth (mm)	330	360	360
DOMESTIC WARRANTY			
Parts and Labour	1 year*	1 year*	1 year*
Heat exchanger (part only)	5 years	5 years	5 years

What you need to know for installation

Which type of flue to use

Bosch 5000W flues should be used with these appliances. Any installation with the incorrect flue could pose a risk and may invalidate warranty. The flues used for the Bosch 5000W boilers are coaxial flues and come in two sizes – 60/100mm and 80/125mm.

The flue materials used

The inner flue is high temperature plastic to cope with the slightly acidic condensate while the outer flue is powder coated metal which means the flue can pass through rooms without impinging on fire regulations.

Cutting the flue to length

Flue extensions can be cut to length. Care should be taken to remove burrs to maintain the integrity of the seal to the adjoining fitting.

Cutting the flue to length

HORIZONTAL FLUING	∅ 60/100MM	∅ 80/125MM
18 KW		
Minimum flue length	350mm*	405mm
Maximum flue length	4,600mm	13,000mm
30 KW		
Minimum flue length	350mm*	405mm
Maximum flue length	7,000mm	16,000mm
37 KW		
Minimum flue length	350mm*	405mm
Maximum flue length	5,700mm	17,200mm

*Can be cut to 130mm. Please refer to instructions

Vertical fluing

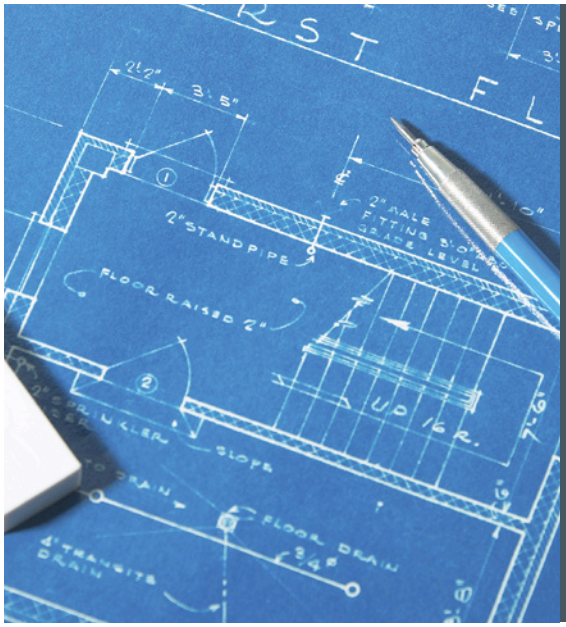
FLUE DIAMETER	∅ 60/100MM	∅ 80/125MM
18 KW		
Minimum flue length	1,090mm	1,365mm
Maximum flue length (inc. adaptor)	6,400mm	15,000mm
30 KW		
Minimum flue length	1,140mm	1,365mm
Maximum flue length (inc. adaptor)	8,000mm	16,000mm
37 KW		
Minimum flue length	1,140mm	1,365mm
Maximum flue length (inc. adaptor)	8.600mm	18,400mm

Reduction in lengths for bends

For every bend added to a flue configuration, the maximum acceptable flue length will reduce by the amount shown

FLUE BEND REDUCTION TABLE	
45° Bend	1m
90° Bend	2m

Bosch 5000W Condens Flue Configurations



Selecting the Right Flue

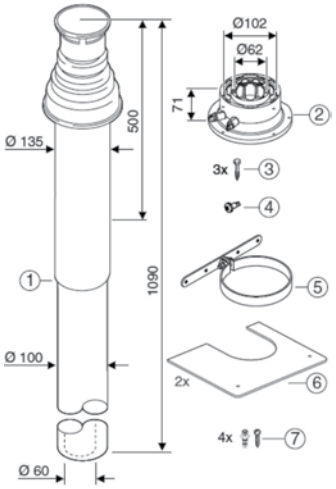
1 Map your flue configuration.

2 Check that the configuration, including bends, in within the maximum flue limits.

3 Choose a flue kit that bests suits your application. (The kit includes the appliance adaptor and terminal.)

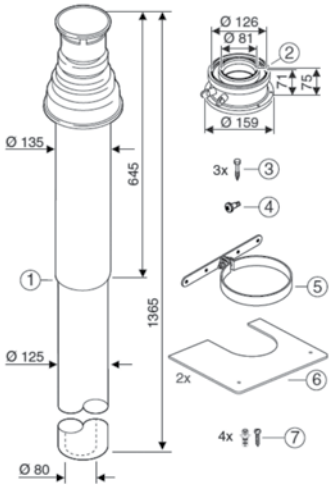
4 Add any flue lengths and bends required for your configuration.

5 Place your order using the Bosch part numbers shown below.



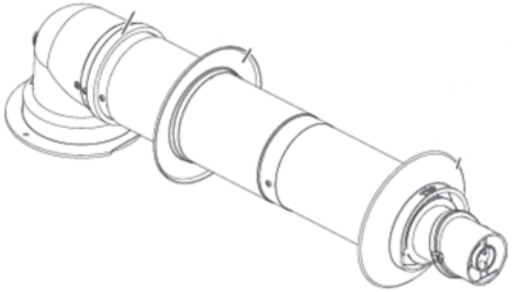
Ø 60/100MM VERTICAL FLUE KIT

Part No: 7719002430



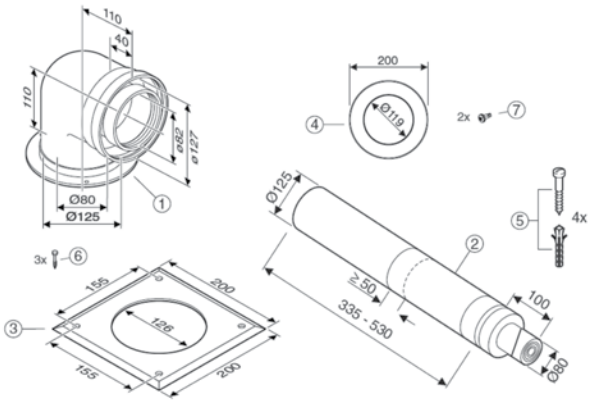
Ø 80/120MM VERTICAL FLUE KIT

Part No: 7719002431



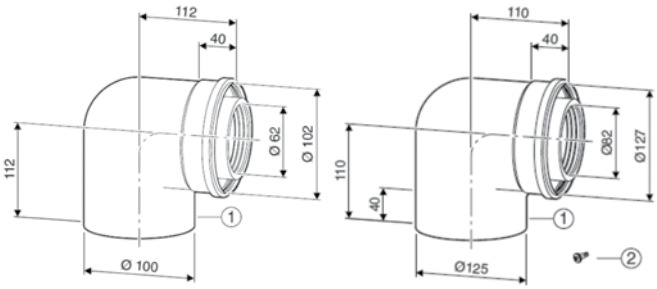
Ø 60/100MM HORIZONTAL TELESCOPIC FLUE KIT

Part No: 7716191082

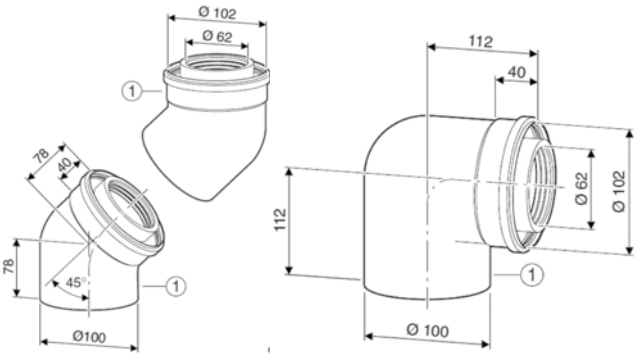


Ø 80/125MM HORIZONTAL TELESCOPIC FLUE KIT

Part No: 7719003702

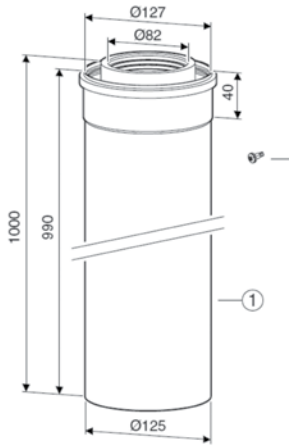


90° ELBOW
∅ 60/100mm Part No: 7716191084
∅ 80/125mm Part No: 7719003664

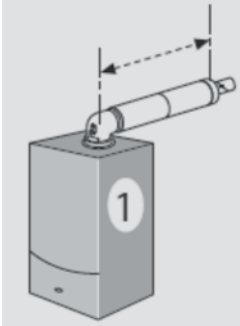
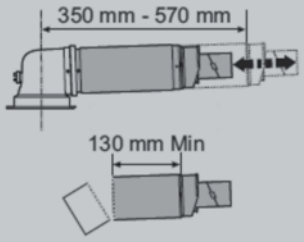
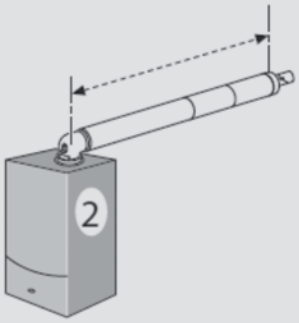
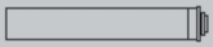
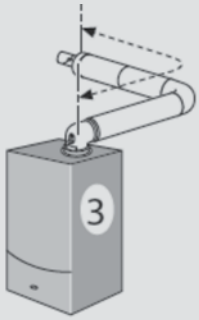
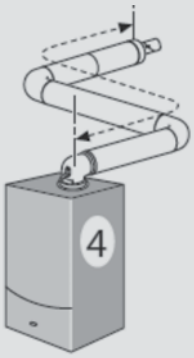
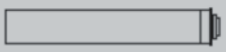


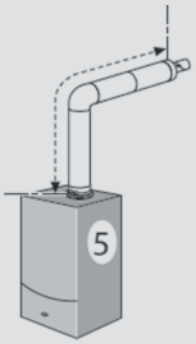
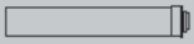
45° ELBOW
∅ 60/100mm Part No: 7716191085
∅ 80/125mm Part No: 7719003665

STRAIGHT PIPE 220MM
∅ 60/100mm Part No: 7716191133



STRAIGHT PIPE 960MM
∅ 60/100mm Part No: 7716191083
∅ 80/125mm Part No: 7719003666

FLUING OPTION		∅ 60/100MM	∅ 80/125MM
1. STANDARD HORIZONTAL FLUE ASSEMBLY			
		7716191028	7719003702
			
2. HORIZONTAL FLUE ASSEMBLY WITH EXTRA LENGTH			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
3. HORIZONTAL FLUE ASSEMBLY WITH 90° BEND			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191084	7719003664
4. HORIZONTAL FLUE ASSEMBLY WITH TWO 90° BENDS			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191084 x 2	7719003664 x 2

FLUING OPTION		Ø 60/100MM	Ø 80/125MM
5. HIGHLINE HORIZONTAL FLUE			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
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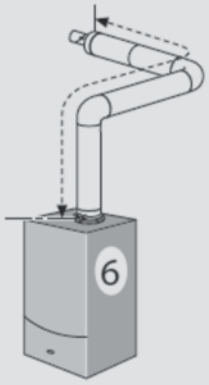
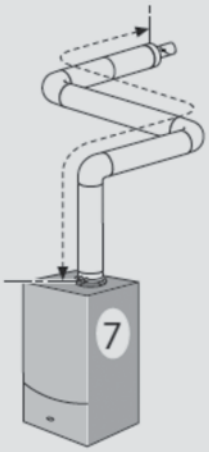
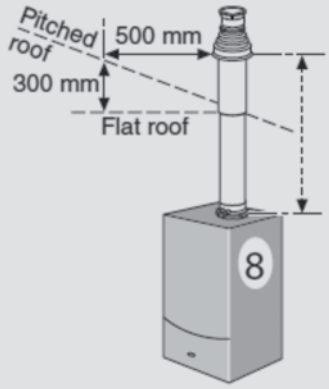
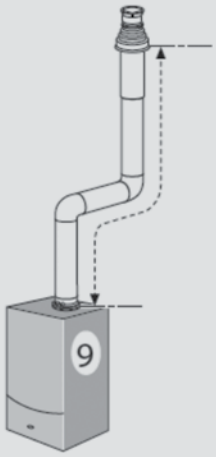
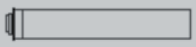
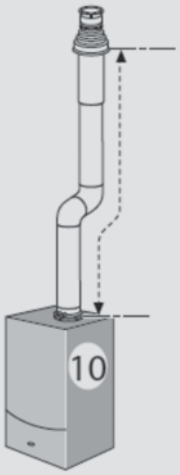
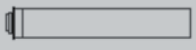
6. EXTENSION FLUE HORIZONTAL AND UPWARDS			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191084 x 2	7719003664 x 2
		7719002432	7719002433
FLUING OPTION		**Ø 60/100MM**	**Ø 80/125MM**
7. EXTENSION FLUE HORIZONTAL WITH TWO BENDS			
		7716191028	7719003702
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191084 x 3	7719003664 x 3
		7719002432	7719002433

8. STANDARD VERTICAL FLUE			
		7719002430	7719002431
FLUING OPTION		**∅ 60/100MM**	**∅ 80/125MM**
9. VERTICAL FLUE ASSEMBLY WITH TWO 90° BENDS			
		7719002430	7719002431
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191084 x 2	7719003664 x 2
10. VERTICAL FLUE ASSEMBLY WITH TWO 45° BENDS			
		7719002430	7719002431
		771619133 (220mm) 7716191083 (960mm)	7719003666 (960mm)
		7716191085 x 2	7719003665 x 2

Bosch 5000W Condens Controllers

- Allows for consistent heating and hot water* temperature
- More options, flexibility and increased efficiency
- Wide range of controllers, including simple programmers, wireless programmers and intelligent controls

* 37 kW model only

Bosch DT10RF digistat
Wireless controller
- Radio Frequency control – no wiring required
- 24-hour programmable room thermostat
- Set different temperatures for up to 6 different time periods
- No separate room thermostat is required

Bosch DT20RF
Wireless controller
- Radio-frequency control – no wiring required
- Twin channel for central heating and hot water
- Set up to 3 different time periods a day
- Room thermostat provides the temperature control

DT20
Digital Twin Channel Programmer
- Plugs into the boiler fascia
- 3 separate time periods for both heating and hot water
- Use either the built in preset programs, or choose your own settings

CR 10
Simple remote control for mixed and unmixed heating circuits
- Room temperature setting in the current time phase
- Error display
- Only the size of a light switch, can be installed in a pattress box

CR 50
Simple room temperature control for unmixed heating circuit.
- Intuitive control with an ‘auto/man’ control dial
- Time program and back light
- Open Therm compatible

CW 400 COMFORT
Outdoor-temperature-dependent system controller for gas and oil fired heating systems for up to four heating and two DHW charging circuits, for simple to complex heating systems
- Simple control concept with large graphic display panel, touchscreen controls and clear text display
- Individually configurable end-customer menu
- Online-solutions for remote access with Bosch apps

Bosch EMS2 Control System

- Simple control function, thanks to a single controller platform for gas and heat pump systems
- Quick and simple installation with standardised terminal designation for easy wiring
- Flexible function modules, can be mounted to fulfil specific requirements

EMS 2 Mixer Circuit Module

MM 100
Controller module for connection of a heating circuit behind a hydraulic separator or back-up storage tank, e.g. an underfloor heating circuit, continuous flow heating circuit (ventilation, pool) or a hot water charging circuit.

Compatible modules

EMS 2 Control Module
MP 100
Controller module for a pool heating circuit in a heat pump system.

EMS 2 Zone Module
MZ 100
For the control of the pumps and valves of up to three unmixed heating circuits or two unmixed heating circuits and one storage charging circuit; supports connection of an LLH temperature sensor.

Bosch 5000W Condens Accessories

Plume Management
A clever solution in order to ensure that the plume of moist vapour that is created by condensing heating boilers at times, will not disturb your neighbours or anything in the proximity of the boiler.

60MM PLUME MANGEMENT KIT

Part No: 7716191086

60MM PLUME MANGEMENT 1M EXTENSION

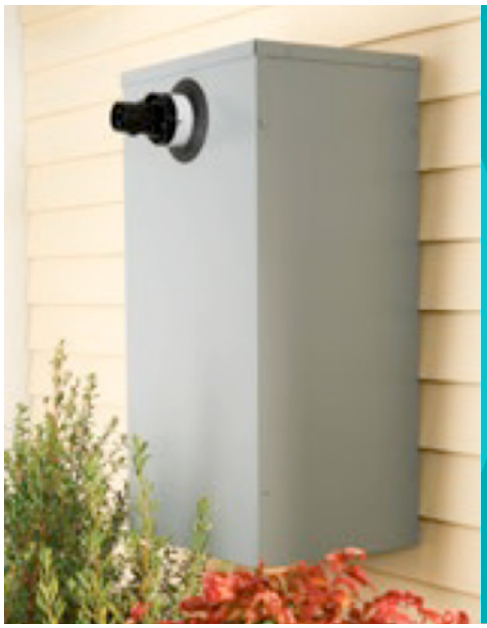
Part No: 7716191087

60MM PLUME MANGEMENT 90° ELBOW

Part No: 7716191088

60MM PLUME MANGEMENT 45° ELBOW (2 PACK)

Part No: 7716191089



Outdoor Installation

If there is no space for an internal installation eg in the laundry or kitchen, the BOC5000W20 outdoor casing, together with the 60/100mm horizontal telescopic flue kit (7716191082) allows for an external installation.

BOSCH
Hot Water & Heating

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