



**BOSCH**

# Condens 7000 WP Installer guide

Quick installation, easy maintenance



**5**  
Year  
Guarantee\*

Installer  
guide



# Condens 7000 WP Power up your installation

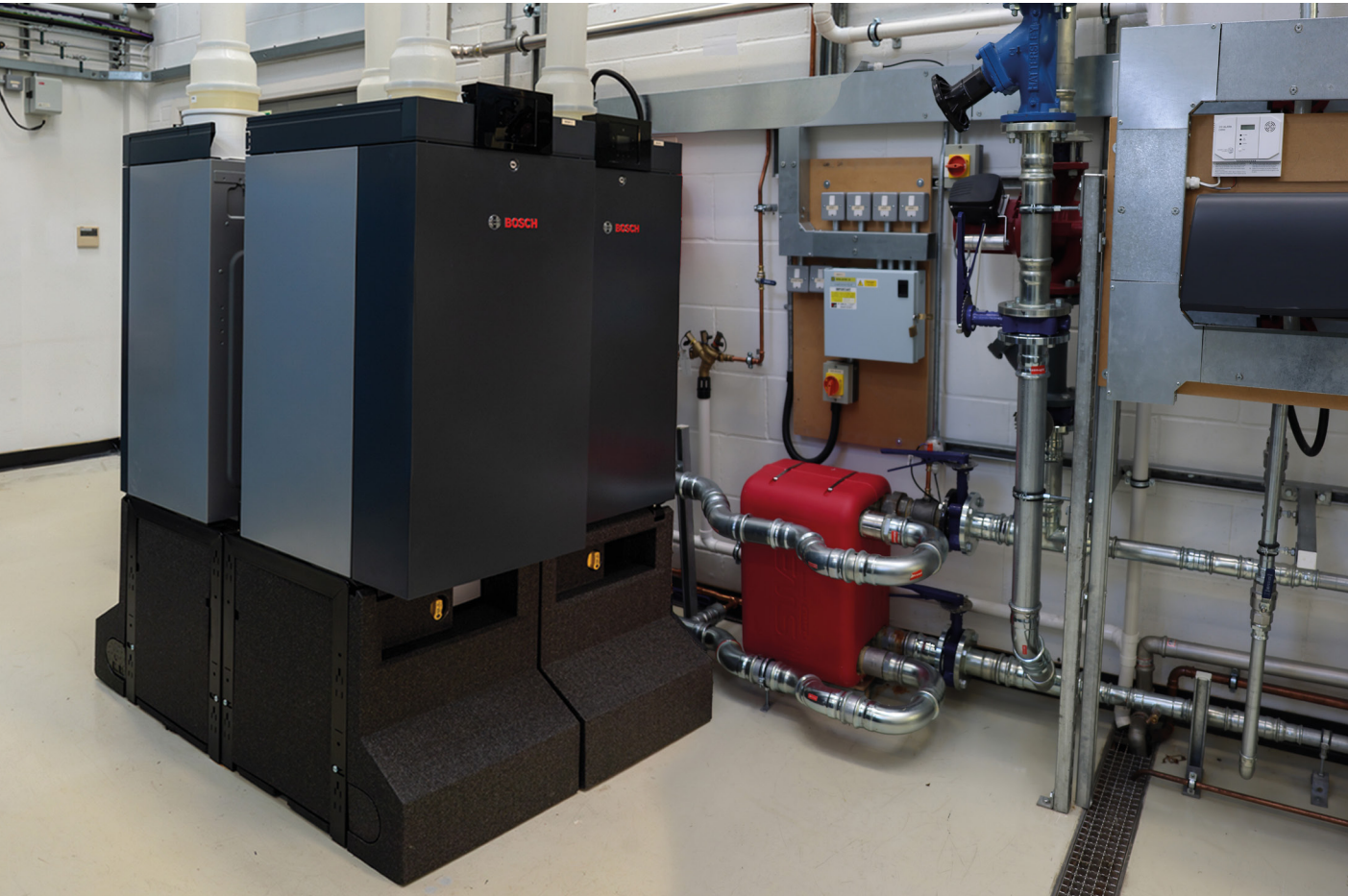
An ideal choice for applications where space is restricted but there is a demand for a modern, high output, high efficiency heating solution.

Control strategies can provide cascade and sequencing for up to 16 boilers at a time for up to 2.2MW of power.

Our Condens 7000 WP wall-hung boiler is suitable for large domestic properties, multi-family housing and commercial installations. It can also be used in combination with high output heat pumps to create a flexible hybrid solution.



# Commercial boiler series High efficiency, compact size



## Why install the Condens 7000 WP?



**Guaranteed**  
5 years peace of mind for you and your customers\*



**Easy maintenance**  
Components accessible from the front



**Quick installation**  
Rapid installation thanks to our new frame kit design



**Connected**  
Touch-screen display for faster commissioning and fault-finding



**Efficient**  
Automatic modulation to match heat demand



**High output**  
Outputs from 50kW up to 145kW with the ability to cascade up to 860kW

Available in outputs of 50, 65, 85, 100, 125 and 145kW. The Condens 7000 WP can be cascaded in banks of up to 6 boilers per bank providing up to 858.6kW at 50/30 per bank.

Each boiler can automatically modulate its output to precisely match the heat demand, reducing fuel consumption and improving overall seasonal efficiency.

## Why choose Bosch?



**Tried and tested**  
With over 15 years of expertise, Bosch is an established leader in boiler technology.



**Get ahead**  
Training and support to go from newbie to expert.



**End-to-end support**  
Full project support, from buying and design to installation and spares.

# Quality performance

## Reliable solution

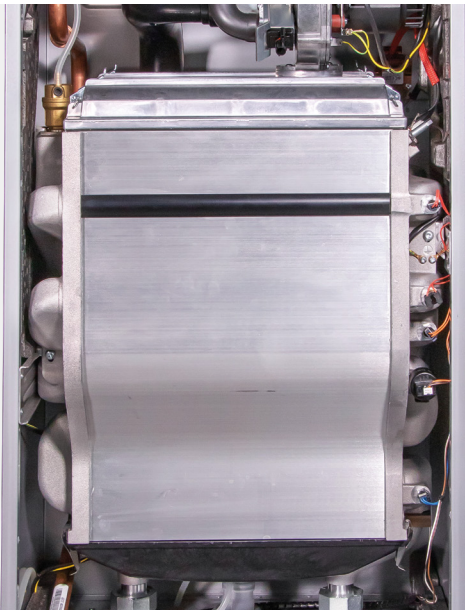
The Condens 7000 WP is a versatile wall-hung boiler that is suitable for commercial properties and larger domestic homes.

James Massingham,  
Technical Officer – Commercial Products



Patented ALU-Plus heat exchanger

The maintenance-reducing heat exchanger is lightweight, robust and allows for a rapid transfer of heat.



Electrical connection

Easily accessible from the top with reliefs for secure cables, MM100 module can be installed.

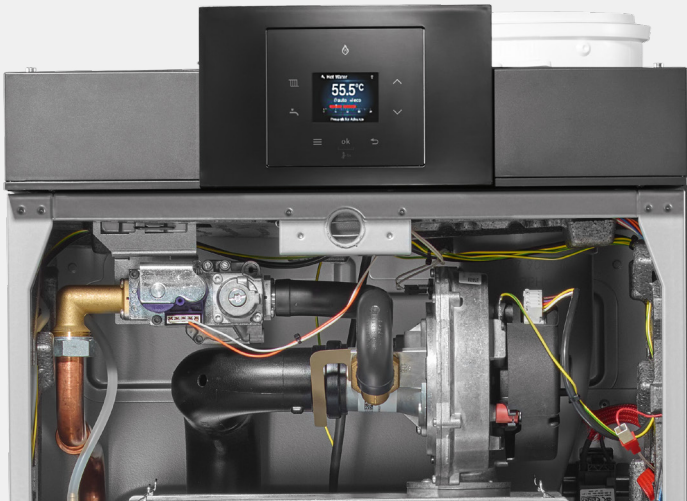


Easy access and assembly

The front cover is easily removable, with just one click to access key components.

Exhaust gas connection

100/160 as standard, rotatable by 360°, flue gas measuring points integrated.



Reduced installation time

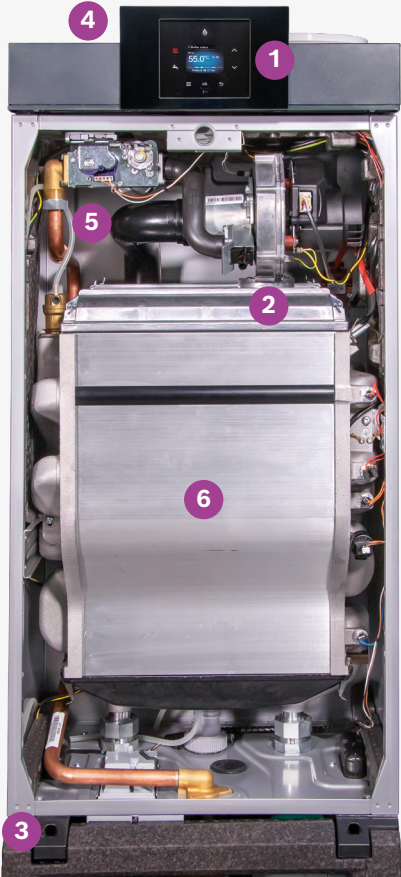
Expect to save up to 60% on the average installation time compared to GB162 V2\*.



\*Time savings estimated and observed during customer installation studies.

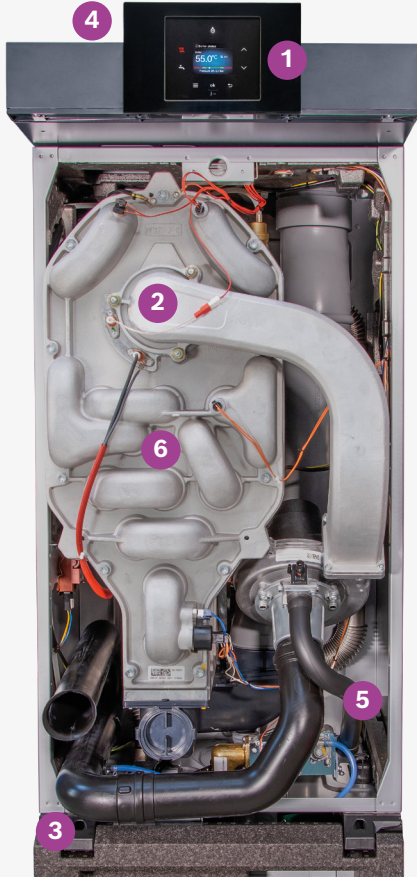
The inside story

GC7000WP 50-100kW



- 1 Basic controller BC30.2 for EMS plus
- 2 Ceramic burner with modulation ratio up to 1:5
- 3 Mounting option on the base frame for floor installation with “push and click-in” function for easy assembly
- 4 Simple connection of the control components from the top
- 5 All components accessible from the front for ease of maintenance and service
- 6 Patented ALU-Plus heat exchanger

GC7000WP 125-145kW



- 1 Basic controller BC30.2 for EMS plus
- 2 PFK grade burner with modulation ratio up to 1:6
- 3 Mounting option on the base frame for floor installation with “push and click-in” function for easy assembly
- 4 Simple connection of the control components from the top
- 5 All components accessible from the front for ease of maintenance and service
- 6 Patented ALU-Plus heat exchanger

Boiler configurations

Single boiler

The Condens 7000 WP can be configured in various ways to meet the heating demands of your installation. Please use the numbered steps below to choose the correct boiler configuration for your project. Please contact us if you require assistance.

1 Boiler

| Description                  | Part number   |
|------------------------------|---------------|
| Bosch Condens GC7000WP 50kW  | 7 736 702 194 |
| Bosch Condens GC7000WP 65kW  | 7 736 702 195 |
| Bosch Condens GC7000WP 85kW  | 7 736 702 196 |
| Bosch Condens GC7000WP 100kW | 7 736 702 197 |
| Bosch Condens GC7000WP 125kW | 7 736 702 198 |
| Bosch Condens GC7000WP 145kW | 7 736 702 199 |

3 Wall hung or frame set option

| Wall hung                 | Part number   |
|---------------------------|---------------|
| Pump group insulation     | 7 736 701 876 |
| Pump group connection set | 5 584 552     |

\*TL1 floor standing frame available with flow and return headers if required, please contact your local CTM.

4 Hydraulic separation options (if required)

Low loss header\*\*

| Optional accessories | Part number |
|----------------------|-------------|
| Sinus LLH 180kW***   | 8 920 097 2 |

\*\*Bosch 300kW LLH available if required, please contact your local CTM.  
\*\*\*Output requirements over 100kW must be designed to 20K ΔT.

Plate heat exchanger

| Optional accessories           | Part number   | PHE connection type      |
|--------------------------------|---------------|--------------------------|
| 50KW Plate heat exchanger      | 7 733 600 013 | 1 ¼" Male BSPP flat face |
| 65KW Plate heat exchanger      | 7 733 600 014 | 1 ¼" Male BSPP flat face |
| 80-100KW Plate heat exchanger  | 7 733 600 016 | 1 ¼" Male BSPP flat face |
| 101-140KW Plate heat exchanger | 7 733 600 017 | 2" Male BSPP flat face   |
| 141-180KW Plate heat exchanger | 7 733 600 018 | 2" Male BSPP flat face   |

5 Controls

| Bosch controls                            | Part number   | BMS integration  | Part number   | 3rd party controls                                             | Part number |
|-------------------------------------------|---------------|------------------|---------------|----------------------------------------------------------------|-------------|
| Greenstar Sense II (interface controller) | 7 738 111 064 | MU100 Programmer | 7 738 110 145 | RTH Converter (included as standard with 50 and 65kW variants) | 7 807 9     |
| MM100 (one required per zone)             | 7 738 110 140 |                  |               |                                                                |             |





| Dimensions 50-100kW  |          |
|----------------------|----------|
| Width                | 520mm    |
| Height               | 1,429mm* |
| Depth                | 458mm    |
| Dimensions 125-145kW |          |
| Width                | 520mm    |
| Height               | 1,429mm* |
| Depth                | 588mm    |

\*\*ErP only relevant to 50kW and 65kW models  
\*Height with pump group

2 Pump group (1 required per boiler)

| Description                                                         | Part number   |
|---------------------------------------------------------------------|---------------|
| Pump group 70kW (3 bar PRV) (for use with 50kW and 65kW boilers)    | 7 736 701 864 |
| Pump group 100kW (3 bar PRV) (for use with 85kW and 100kW boilers)  | 7 736 701 865 |
| Pump group 150kW (4 bar PRV) (for use with 125kW and 145kW boilers) | 7 736 702 214 |

| Floor standing frame*          | Part number   |
|--------------------------------|---------------|
| TL1 frame set with insulation* | 7 736 701 912 |
| Pump group connection set      | 5 584 552     |

# Boiler configurations

## Cascade boiler sets

Our Condens 7000 WP can be cascaded on a six boiler cascade frame set to achieve up to 860kW.

An ideal choice for applications where space is restricted but there is a demand for a modern high output, high efficiency heating solution. Control strategies can provide cascade and sequencing for up to 16 boilers at a time for up to 2.2MW of power.

### 1 Boiler

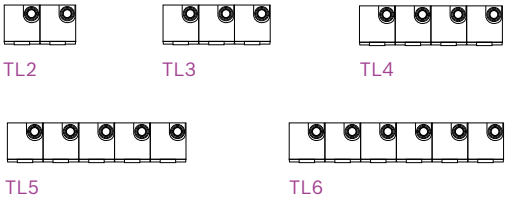
| Description                  | Part number   |
|------------------------------|---------------|
| Bosch Condens GC7000WP 50kW  | 7 736 702 194 |
| Bosch Condens GC7000WP 65kW  | 7 736 702 195 |
| Bosch Condens GC7000WP 85kW  | 7 736 702 196 |
| Bosch Condens GC7000WP 100kW | 7 736 702 197 |
| Bosch Condens GC7000WP 125kW | 7 736 702 198 |
| Bosch Condens GC7000WP 145kW | 7 736 702 199 |

### 2 Pump group (1 required per boiler)

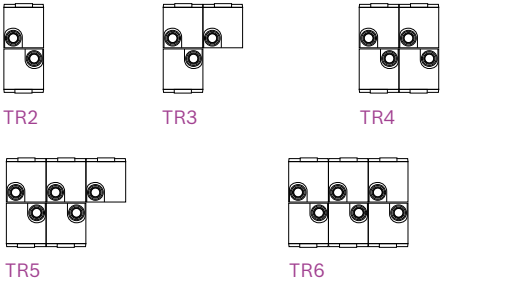
| Description                                                            | Part number   |
|------------------------------------------------------------------------|---------------|
| Pump group 70kW (3 bar PRV)<br>(for use with 50kW and 65kW boilers)    | 7 736 701 864 |
| Pump group 100kW (3 bar PRV)<br>(for use with 85kW and 100kW boilers)  | 7 736 701 865 |
| Pump group 150kW (4 bar PRV)<br>(for use with 125kW and 145kW boilers) | 7 736 702 214 |

### 3 Cascade frame sets

| Cascade setup | Description                                  | Part number   |
|---------------|----------------------------------------------|---------------|
| TL2           | 2 Boiler in-line cascade set with insulation | 7 736 701 883 |
| TL3           | 3 Boiler in-line cascade set with insulation | 7 736 701 884 |
| TL4           | 4 Boiler in-line cascade set with insulation | 7 736 701 885 |
| TL5           | 5 Boiler in-line cascade set with insulation | 7 736 701 886 |
| TL6           | 6 Boiler in-line cascade set with insulation | 7 736 701 887 |



| Cascade setup | Description                                       | Part number   |
|---------------|---------------------------------------------------|---------------|
| TR2           | 2 Boiler back-to-back cascade set with insulation | 7 736 701 888 |
| TR3           | 3 Boiler back-to-back cascade set with insulation | 7 736 701 889 |
| TR4           | 4 Boiler back-to-back cascade set with insulation | 7 736 701 890 |
| TR5           | 5 Boiler back-to-back cascade set with insulation | 7 736 701 891 |
| TR6           | 6 Boiler back-to-back cascade set with insulation | 7 736 701 892 |



### 4 Victaulic connections

Only required when **NOT** using a Bosch specified low loss header. If using a low loss header skip to 6.

| Cascade setup | Description                                                | Part number   |
|---------------|------------------------------------------------------------|---------------|
| TL1           | Victaulic 2.5" to flange connection DN65 PN6 (Pack Qty. 2) | 7 736 701 914 |
| TL2/TR2       |                                                            |               |
| TL3/TR3       | Victaulic 4" to flange connection DN100 PN6 (Pack Qty. 2)  | 7 736 701 913 |
| TL4/TR4       |                                                            |               |
| TL5/TR5       |                                                            |               |
| TL6/TR6       |                                                            |               |

# Boiler configurations

## Cascade with plate heat exchanger or low loss header

A plate heat exchanger can be used to separate the boiler from the system in both open vented and sealed systems. This provides greater protection for the boiler, especially where the water quality in the existing system is poor.



A low loss header is a device that hydraulically separates the boiler from the heating circuit. This helps to improve the efficiency and performance of the heating system by regulating the pressure and flow rate of the system.



### 5 Plate heat exchangers

| Description                    | Part number   | PHE connection type      |
|--------------------------------|---------------|--------------------------|
| 50KW Plate heat exchanger      | 7 733 600 013 | 1 ¼" Male BSPP flat face |
| 65KW Plate heat exchanger      | 7 733 600 014 | 1 ¼" Male BSPP flat face |
| 80-100KW Plate heat exchanger  | 7 733 600 016 | 1 ¼" Male BSPP flat face |
| 101-140KW Plate heat exchanger | 7 733 600 017 | 2" Male BSPP flat face   |
| 141-180KW Plate heat exchanger | 7 733 600 018 | 2" Male BSPP flat face   |
| 181-230KW Plate heat exchanger | 7 733 600 020 | 2" Male BSPP flat face   |
| 231-280KW Plate heat exchanger | 7 733 600 021 | 2 ½" Male BSPP flat face |
| 281-400KW Plate heat exchanger | 7 733 600 023 | 2 ½" Male BSPP flat face |
| 401-520KW Plate heat exchanger | 7 733 600 025 | 2 ½" Male BSPP flat face |
| 521-640KW Plate heat exchanger | 7 733 600 026 | 2 ½" Male BSPP flat face |
| 641-860kW Plate heat exchanger | 7 733 600 027 | DN100 compact flange     |

### 6 Low loss header

| Cascade Setup | Description                        | Part number   | Optional flanges          | Part number   |
|---------------|------------------------------------|---------------|---------------------------|---------------|
| TL1           | Low loss header + Insulation 300kW | 7 736 701 907 | Threaded flange DN65 PN6  | 7 736 700 487 |
| TL2/TR2       |                                    |               |                           |               |
| TL3/TR3       | Low loss header + Insulation 900kW | 7 736 701 908 | Threaded flange DN100 PN6 | 7 736 700 964 |
| TL4/TR4       |                                    |               |                           |               |
| TL5/TR5       |                                    |               |                           |               |
| TL6/TR6       |                                    |               |                           |               |

### 7 Controls

| Bosch intelligent controls                    | Part number   | Bosch sequencing controls                                          | Part number   | BMS integration                                                     | Part number   |
|-----------------------------------------------|---------------|--------------------------------------------------------------------|---------------|---------------------------------------------------------------------|---------------|
| 8313 Control                                  | 7 736 602 245 | MC400 Cascade sequencer                                            | 7 738 111 001 | MU100 Programmer (BMS interface module)                             | 7 738 110 145 |
| Temperature sensor set EMS plus 200mm         | 7 735 600 656 | Temperature sensor set TF HW EMS2 200mm (MC400 required accessory) | 7 735 600 657 |                                                                     |               |
| FM-CM Module (cascade sequencer)              | 7 736 602 098 | MM100 Zone control module                                          | 7 738 110 140 | Greenstar Sense II (interface controller, MM100 required accessory) | 7 738 111 064 |
| FM-MM Module (2 heating circuits)             | 8 718 598 828 |                                                                    |               |                                                                     |               |
| FM-MW Module (1 heating, 1 hot water circuit) | 8 718 598 831 |                                                                    |               |                                                                     |               |

Accessories

Accessories designed to help enhance operation and overall efficiency.

| Accessories                                                                                                                                                                                                                                                                                              | Part number   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|  <b>TL1 frame set with insulation</b><br>Single hydraulic frame kit set (TL1 set up) with insulation for use with the Condens 7000 WP boiler. Includes frame kit and insulation only.                                    | 7 736 701 912 |
|  <b>TL1 frame set with insulation &amp; flow and return headers</b><br>Single hydraulic frame kit set (TL1 set up) with insulation for use with the Condens 7000 WP boiler. Includes flow and return headers and frame.  | 7 736 701 882 |
|  <b>Flange connection 2.5" incl. Victaulic</b><br>Victaulic 2.5 inch to DN65, PN6 flange connection (pack qty. 2).                                                                                                       | 7 736 701 914 |
|  <b>Flange connection 4" incl. Victaulic</b><br>Victaulic 4 inch to DN100, PN6 flange connection (pack qty. 2).                                                                                                          | 7 736 701 913 |
|  <b>4 Bar pressure relief valve (50-100kW)</b><br>4 bar pressure relief valve.                                                                                                                                           | 7 095 595     |
| <b>LPG conversion kit (45-50kW)</b>                                                                                                                                                                                                                                                                      | 7 736 702 378 |
| <b>LPG conversion kit (60-70kW)</b>                                                                                                                                                                                                                                                                      | 7 736 702 379 |
|  <b>LPG conversion kit (80-85kW)</b>                                                                                                                                                                                     | 7 736 702 380 |
| <b>LPG conversion kit (90-100kW)</b>                                                                                                                                                                                                                                                                     | 7 736 702 381 |
| <b>LPG conversion kit (125kW)</b>                                                                                                                                                                                                                                                                        | 7 736 701 860 |
| <b>LPG conversion kit (145kW)</b>                                                                                                                                                                                                                                                                        | 7 736 701 861 |
|  <b>RTH converter</b><br>RTH converter to enable the use of 3rd party 230Vac controls. Included as standard with the 50 & 65 models.                                                                                   | 7 807 9       |
|  <b>CO Sensor</b><br>In case of CO detection an alarm is activated. Batteries are built in and installation is easy through wireless connection.                                                                       | 7 736 606 211 |
|  <b>CO Sensor &amp; boiler cut-off module</b><br>CO-detector with boiler cut-off module. This combined accessory is able to shut down boilers via control signal to the appliance (included with Bosch cascade flues). | 7 736 606 214 |
|  <b>Non return valve for overpressure flue cascade kit 50-100kW</b><br>(not required for 125 & 145kW).                                                                                                                 | 7 736 701 917 |

| Controls                                                                                                                                                                                                                            | Part number   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|  <b>MU100 Programmer</b><br>BMS interface module (0-10Vdc control).                                                                                | 7 738 110 145 |
|  <b>Greenstar Sense II</b><br>Intelligent weather compensation boiler control, used for single boiler installations.                               | 7 738 111 064 |
|  <b>MM100</b><br>Heating & hot water zone module for use with Sense II.                                                                            | 7 738 110 140 |
|  <b>MC400 Cascade sequencer</b><br>Cascade module for up to 4 boilers (0-10Vdc control). Temperature sensor set is required.                       | 7 738 111 001 |
|  <b>Temperature sensor set: EMS2 200mm</b><br>Required if using an MC400 cascade sequencer.                                                        | 7 735 600 657 |
|  <b>EMSplus 200mm</b><br>Required if using an 8313 controller.                                                                                     | 7 735 600 656 |
|  <b>8313 Control</b><br>Intelligent commercial control offering internet connected remote access and weather compensation as standard.             | 7 736 602 245 |
|  <b>FM-CM Module</b><br>Cascade module used with the 8313 to offer a sequencing strategy of up to 4 boilers per module.                          | 7 736 602 098 |
|  <b>FM-MM Module</b><br>Heating circuit module used with the 8313 capable of controlling up to two mixed heating circuits.                       | 8 718 598 828 |
|  <b>FM-MW Module</b><br>Heating and DHW circuit module used with the 8313 capable of controlling one mixed heating circuits and one DHW circuit. | 8 718 598 831 |
|  <b>Bosch EasyControl (White)</b><br>Smart internet connected room thermostat.                                                                   | 7 736 701 341 |
|  <b>Bosch EasyControl (Black)</b><br>Smart internet connected room thermostat.                                                                   | 7 736 701 392 |

Flues

Flue lengths 50-85kW

| Maximum flue lengths inc. terminal (mm) |            |        |        |        |
|-----------------------------------------|------------|--------|--------|--------|
| Diameter                                | Direction  | 50kW   | 65kW   | 85kW   |
| 160mm                                   | Horizontal | 11,000 | 16,000 | 11,000 |
| 160mm                                   | Vertical   | 21,000 | 22,000 | 16,000 |

Note: For every 87° flue bend deduct 1,500mm. For every 45° flue bend deduct 500mm.

Flue lengths 100-145kW

| Maximum flue lengths inc. terminal (mm) |            |        |       |       |
|-----------------------------------------|------------|--------|-------|-------|
| Diameter                                | Direction  | 100kW  | 125kW | 145kW |
| 160mm                                   | Horizontal | 12,000 | 3,000 | 3,000 |
| 160mm                                   | Vertical   | 16,000 | 5,000 | 5,000 |

Horizontal and vertical fluing options

| 110/160mm diameter                                                                    |                                               |               |
|---------------------------------------------------------------------------------------|-----------------------------------------------|---------------|
|    | Horizontal flue kit                           | 7 738 113 669 |
|    | Vertical flue kit                             | 7 738 113 668 |
|    | 0.5m flue extension                           | 7 738 113 099 |
|    | 1m flue extension                             | 7 738 113 100 |
|    | 2m flue extension                             | 7 738 113 101 |
|    | 87° bend                                      | 7 738 113 105 |
|    | 45° bend                                      | 7 738 113 104 |
|    | 30° bend                                      | 7 738 113 103 |
|   | 15° bend                                      | 7 738 113 102 |
|  | Flue wall clamps 160mm dia. (3 pack)          | 7 738 113 677 |
|  | Flat roof flashing 166mm dia. 0°              | 7 738 113 126 |
|  | Flat roof flashing 166mm dia. 0-15°           | 7 738 113 127 |
|  | Pitched roof flashing 166mm dia. 5-25° black  | 7 738 113 128 |
|  | Pitched roof flashing 166mm dia. 25-45° black | 7 738 113 129 |

Plume management

| 110/160mm diameter                                 |               |
|----------------------------------------------------|---------------|
| Plume management kit, Ø110/160                     | 7 738 113 670 |
| Pipe concentric Ø110/160, 0,5m stainless           | 7 738 113 140 |
| Pipe concentric Ø110/160, 1,0m stainless           | 7 738 113 141 |
| Supply air intake Ø110/160, stainless              | 7 738 113 147 |
| Elbow concentric Ø110/160, 45° stainless           | 7 738 113 145 |
| Elbow concentric Ø110/160, 87° stainless           | 7 738 113 146 |
| Wall bracket Ø160, 40-65mm stainless (pack qty. 1) | 7 738 113 149 |

Getting started



REGISTER  
A PRODUCT

To register a boiler or cascade system and activate the 5 year guarantee, visit the link below, or scan the QR code:

[www.bosch-industrial.co.uk/guarantee](http://www.bosch-industrial.co.uk/guarantee)



BOOK  
COMMISSIONING

In order to book commissioning for a boiler or cascade system, simply visit the below link, or scan the QR code, and complete the pre-commissioning checklist:

[www.bosch-industrial.co.uk/commissioning](http://www.bosch-industrial.co.uk/commissioning)



# Training

## Install with confidence

Learn all you need to know about the Condens 7000 WP commercial boiler range. We specifically tailor all our product courses to meet your needs. This hands-on course is perfect for those who want to specify and install the Condens 7000 WP boilers for commercial and domestic applications.

## Supporting you

Our courses are here to support your installation from beginning to end. The Condens 7000 WP course covers:

- ▶ Specification and installation
- ▶ Service and maintenance
- ▶ Fault finding and diagnostics

Our product training courses will help you get hands-on experience and understand all the features and benefits.



Scan to start your training:

**[worcester-bosch.co.uk/eacademy](http://worcester-bosch.co.uk/eacademy)**

## Get in touch

### Sales

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### Controls Helpline

Tel: 0330 123 3641

### Training

Tel: 0330 123 0166

Email: [training@uk.bosch.com](mailto:training@uk.bosch.com)

## Share

We would love to see your installations!



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