

# TECHNICAL DATA SHEET

TECHNICAL DATA SHEET COM106 (01/2022)



# BOSCH

Invented for life

## Condens 7000WP Condensing Boiler:

|                      |                |        |
|----------------------|----------------|--------|
| Condens 7000WP – 50  | 14.3 – 49.9 kW | @50/30 |
| Condens 7000WP – 65  | 14.3 – 69.5 kW | @50/30 |
| Condens 7000WP – 85  | 20.8 – 84.5 kW | @50/30 |
| Condens 7000WP – 100 | 20.8 – 99.5 kW | @50/30 |



- ▶ 50, 65, 85 or 100kW wall hung condensing boiler, also available in outputs of 125 & 145 kW
- ▶ Option to cascade in banks of up to 6 boilers
- ▶ Easy to install, 74kg lift weight and compact boiler dimensions (H) 1120mm x (W) 520mm x (D) 457.5mm
- ▶ Condensing technology with easy servicing
- ▶ Patented ALU-PLUS® heat exchanger with plasmapolymised surface
- ▶ 5-year parts and labour guarantee for the boiler
- ▶ All parts can be serviced from the front
- ▶ Energy Management System (EMS) controls
- ▶ Modulation down to 13 kW for 50 & 65 kW models
- ▶ Modulation down to 20 kW for 85 & 100 kW models

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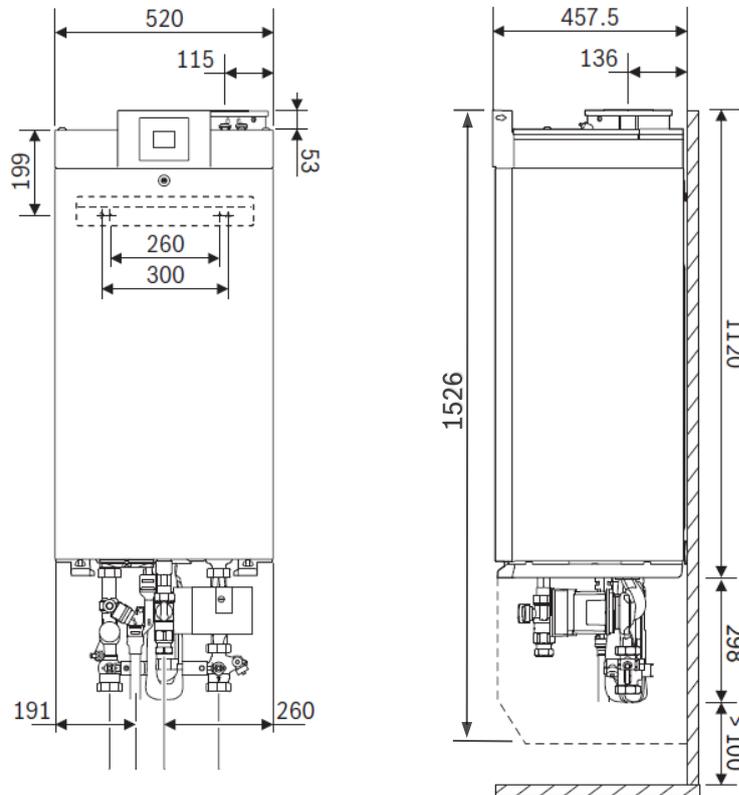
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## Condens 7000WP Dimensions:



| Key   |                       |
|-------|-----------------------|
| GS    | Gas supply            |
| PF/PR | Pump flow/return      |
| CDO   | Condense drain outlet |

The drawing shows the pump group attached to the boiler, this is available as an accessory.

Each pump group contains a modulating pump, flow, return and gas isolation valves, a pressure gauge, a 3bar PRV and a connection for an appropriately sized expansion vessel.

The GC7000WP 50 kW and 65 kW can be installed in systems without a low loss header, when the pump group is used as the only pump to provide flow to the circuits. If each circuit has a circulating pump, then the boiler must be hydraulically separated from the system via the means of either a low loss header or a plate heat exchanger.

| Condens 7000WP                          | Unit | 50 kW | 65 kW                         | 85 kW | 100 kW |
|---|------|-------|-------------------------------|-------|--------|
| Dimensions without Pump Group (HxWxD)   | mm   |       | 1120 x 520 x 457.5            |       |        |
| Dimensions with Pump Group (HxWxD)      | mm   |       | 1526 x 520 x 457.5            |       |        |
| Weight (without a Pump Group)           | kg   |       | 74                            |       |        |
| Boiler Flow and Return Connections      | inch |       | G1 ½' Female Union            |       |        |
| Condensate Drain                        | mm   |       | Ø 24                          |       |        |
| Gas Connection                          | inch |       | G1 Male                       |       |        |
| Ø Flue Gas System, Room-Air Dependent   | mm   |       | Ø 110                         |       |        |
| Ø Flue Gas System, Room-Air Independent | mm   |       | Standard Ø 110/160 Concentric |       |        |

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## Condens 7000WP Technical Specification:

| Condens 7000WP  | Unit      | 50 kW                                       | 65 kW     | 85 kW     | 100 kW    |         |
|---|-----------|---|-----------|-----------|-----------|---------|
| Nominal Heat Output @ 80/60 °C                                  | kW        | 13.0–46.5                                   | 13.0–62.6 | 18.9–80.0 | 19.0–94.5 |         |
| Nominal Heat Output @ 50/30 °C                                  | kW        | 14.3–49.9                                   | 14.3–69.5 | 20.8–84.5 | 20.8–99.5 |         |
| Rated Heat Input  | kW        | 13.3–47.5                                   | 13.3–64.3 | 19.3–82.0 | 19.3–96.5 |         |
| Net Efficiency<br>(Partial load 30% in accordance with EN15502) | %         | 108.4                                       | 108.7     | 109.1     | 108.7     |         |
| Seasonal Efficiency (as L2B)                                    | %         | 96  | 96.3      | 96.5      | 96.2      |         |
| ErP Class and Seasonal Efficiency                               | %         | A / 93                                      | A / 93    | N/A       | N/A       |         |
| Standby Loss<br>(in accordance with EN15502)                    | %         | 0.24  | 0.18      | 0.14      | 0.12      |         |
| Maximum Working Pressure  | bar       | 6 *   |           |           |           |         |
| Maximum Flow Temperature  | °C        | 85  |           |           |           |         |
| Maximum Flow Rate @ ΔT=20k                                      | l/h       | 5000  |           |           |           |         |
| Required Flow Rate @ ΔT=20k                                     | l/h       | 2200  | 3000      | 3600      | 4300      |         |
| Resistance @ Required Flow Rate (Boiler only)                   | mbar      | 75  | 130       | 170       | 240       |         |
| Maximum Condensate Rate   | l/h       | 6   | 7.6       | 9.3       | 11        |         |
| Noise Level @ 1m  | Full load | dB(A)                                       | 55        | 61        | 58.1 **   | 60.7 ** |
| Fuel Type   |           | Natural Gas H (G20) – LPG (G31)             |           |           |           |         |
| Gas Category according to EN 437                                |           | GB/IE II2H,3P 20;37mbar                     |           |           |           |         |
| Gas Pressure – Min/Max  | mbar      | Natural Gas 17/25 – LPG 25/45               |           |           |           |         |
| Gas Rating – Natural Gas (G20)                                  | m³/h      | 5.03  | 6.8       | 8.68      | 10.21     |         |
| Gas Rating – LPG (G31)  | m³/h      | 1.94  | 2.62      | 3.34      | 3.93      |         |
| CO2 Content – NG (G20)  | Full load | %   | 9.3       | 9.3       | 9.1       | 9.1     |
|   | Part load | %   | 8.4       | 8.4       | 8.2       | 8.1     |
| CO Emission G20   | Full load | ppm   | 31        | 63        | 70        | 81      |
| NOx Emission G20 @ Full Load<br>(in accordance with EN15502)    |           | mg/kWh                                      | 25        | 34        | 34        | 38      |
| Residual Head of Fan  | Pa        | 71  | 130       | 162       | 226       |         |
| Flue Gas Mass Flow Rate   | Full load | g/s   | 21.6      | 29.2      | 38        | 44.7    |
| Flue Gas Temperature<br>@ 80/60 °C                              | Part load | °C  | 56        | 56        | 56        | 56      |
|   | Full load | °C  | 59        | 62        | 66        | 72      |
| Flue Gas Temperature<br>@ 50/30 °C                              | Part load | °C  | 32        | 32        | 34        | 34      |
|   | Full load | °C  | 39        | 43        | 50        | 53      |
| Flue Type   |           | B23, B53, C13, C33, C43, C53, C63, C83, C93 |           |           |           |         |
| Mains Connection Voltage / Phase                                | V         | 230 / Single Phase                          |           |           |           |         |
| Power Supply Rating   |           | 230 VAC, 50 Hz, 130 Watts                   |           |           |           |         |
| Electrical Ingress Protection                                   |           | IPX0D                                       |           |           |           |         |
| Electrical Power Consumption<br>(without Pump Group)            | Standby   | W   | 2         | 2         | 2         | 2       |
|   | Part load | W   | 8         | 8         | 12        | 12      |
|   | Full load | W   | 31        | 65        | 88        | 133     |

\* 3 bar safety valve with pump group as standard, optional 4 & 6 bar safety valve as additional extra.

\*\* Noise level for 85 & 100 kW are indicative values.

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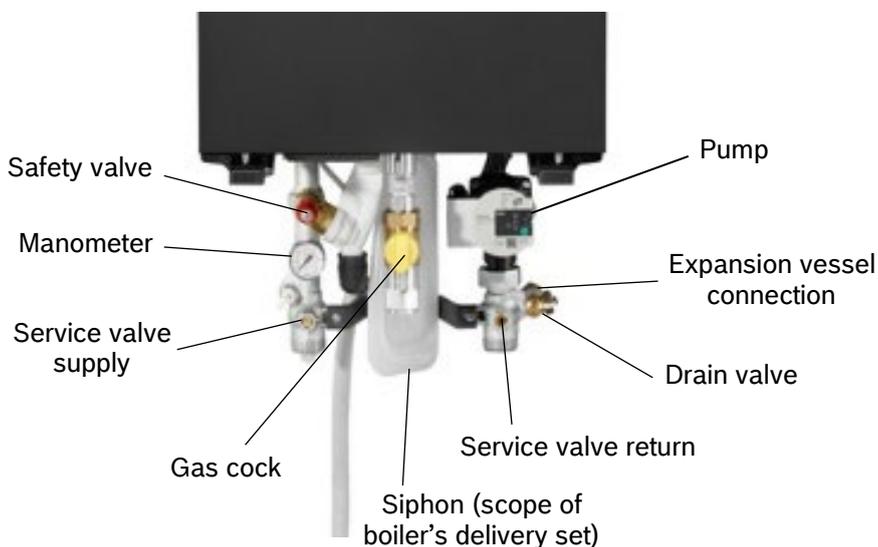


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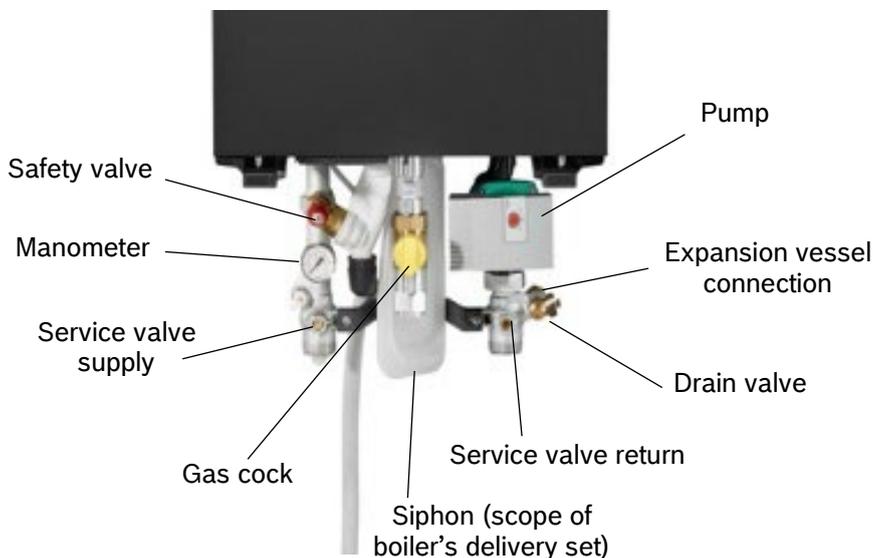
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## Pump Group Overview:

### 50 & 65 kW Pump Group



### 85 & 100 kW Pump Group



| Condens 7000WP   | Unit | 50 kW     | 65 kW | 85 kW    | 100 kW |
|--|------|-----------|-------|----------|--------|
| Pump Group Flow Connection   | Inch | G1 ½ Male |       |          |        |
| Pump Group Return Connection                                       | Inch | G1 ½ Male |       |          |        |
| Pump Group Gas Connection  | Inch | G1 Female |       |          |        |
| Electrical power consumption Wilo-Para STG 25/8, min. / max.       | W    | 4 / 74    |       |          |        |
| Electrical power consumption Wilo-Stratos Para 25/1-8, min. / max. | W    |           |       | 27 / 138 |        |

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