



Only Heating




Product Brochure

February 2023

Wall-Hung Type
Premix & Gas Adaptive System
Condensing System Boiler

Enerwa
Plus

 +
2500 H 25 kW
3000 H 30 kW
3500 H 35 kW

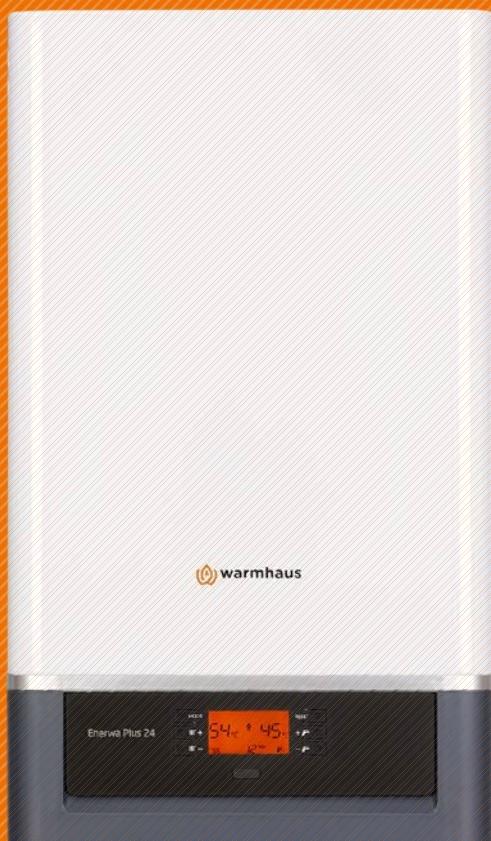

31 kW
35 kW
40 kW

When a storage tank for DHW is installed to the system boiler.

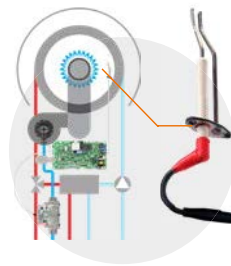
Enerwa Plus 2500 H Enerwa Plus 3000 H Enerwa Plus 3500 H

25-30-35 kW

Wall-hung
condensing boilers,
room sealed and
fan assisted
heating only version



12 Reasons to Choose Enerwa Boilers



Efficiency and Savings up to 97.5%* with Electronic Gas Adaptive Control (GAC)

With its electronic GAC feature, it instantly detects the combustion quality and always provides the ideal air-gas mixture, **providing gas savings with an efficiency of up to *97,5%.**

* At 30% of Nominal Heat Power and Low Temperature Regime (η_1)



High Productivity in all Season with 1:10 Modulation Ratio

It ensures high productivity every time both in mid-season and at while minimum power is needed with cutting ability its maximum power 1:10 ratio.



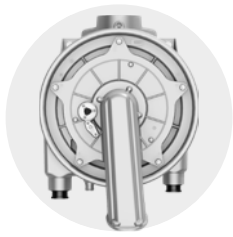
Powerful Built-in Pump

With the built-in powerful Grundfos circulation pump, it meets your needs even in large installations up to 2500 l/h.



In the Lowest NO_x Class for Exhaust Gas According to the ErP Directives

Lowers environmentally hazardous NO_x emissions even below the values determined by the best class level of 6 for NO_x as an appendix of the Energy-related Products Directive (56 mg/kWh), to 25/27 mg/kWh **in order to reduce air pollution.**



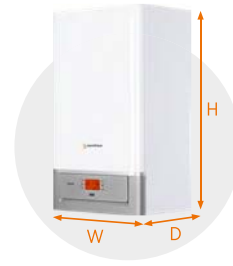
Long Lasting Life With Stainless Steel Exchangers

Enerwa boilers **can be used for long years** with their wide channel, no-welding, single coil, stainless steel main heat exchanger and stainless steel plate heat exchanger.



Cascade up to 6 boilers & 210 kW power

Central heating capacity up to 210 kW with 6 boilers can be obtained easily with cascade installation.



Compact Dimensions & Less Installation Area

(W:420 x D:288 x H:725 mm)

Compact dimensions and adjacent installation capability allows installation with less area.



Multi-zone management

With an external optional module, 4 heating zone or 1 heating zone plus 1 underfloor zone can be controlled.



User Friendly Control Panel

Illuminated wide information screen shows heater, hot usage water, installation pressure, Outside Sensor connection and room thermostat connection and flame modulation in the screen at the same time.



Perfect Body Insulation

High usage efficiency is ensured by insulation which prevents heat loss from boiler body and decreases noise level.

Side cover: 15 mm insulation thickness

Front cover: 20 mm insulation thickness



Hot Water Tank Connection

If you need plenty of domestic hot water, you can connect Enerwa and Enerwa Plus boilers (with optional accessories) to one hot water tank. You have the option by heating only one hot water tank or you can connect both your central heating system and hot water tank.



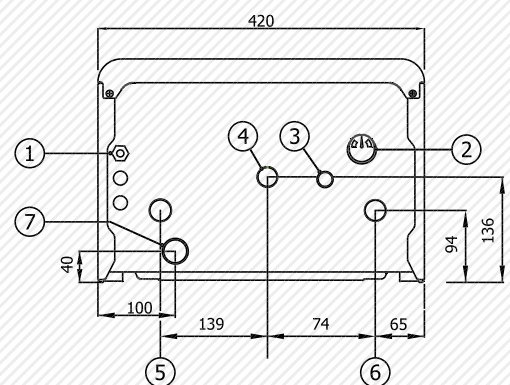
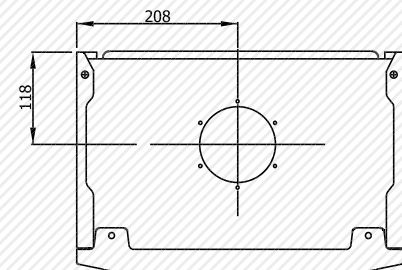
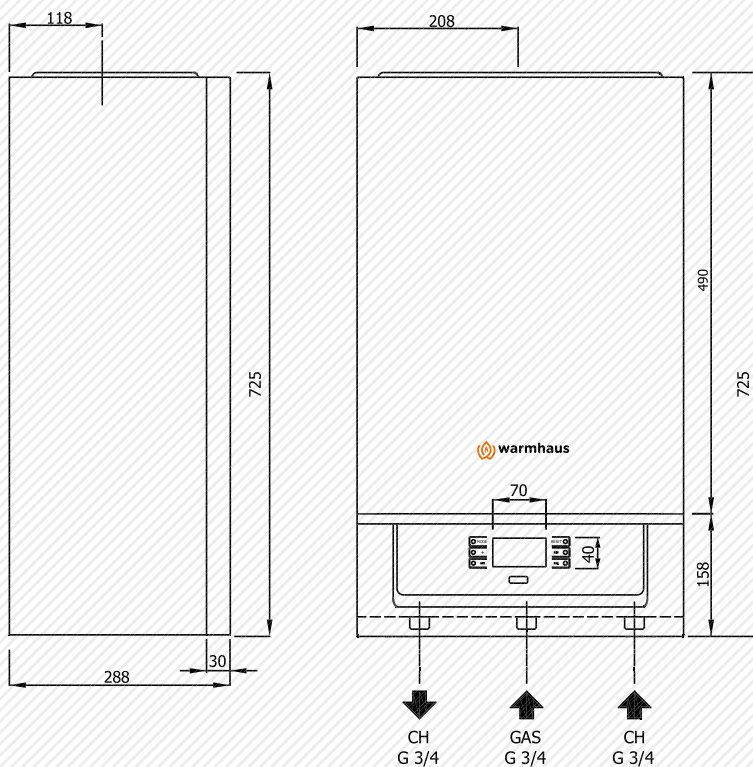
Hermetic Flue Connection

Warmhaus Enerwa Plus boilers have room sealed hermetic boiler design and compatible with Ø60/100 mm concentric flue connection. Each boiler can be used with its own flue sets independent from each other which makes cascade systems easy to install in roof spaces without a stainless steel flue.

Dimensions & Connections



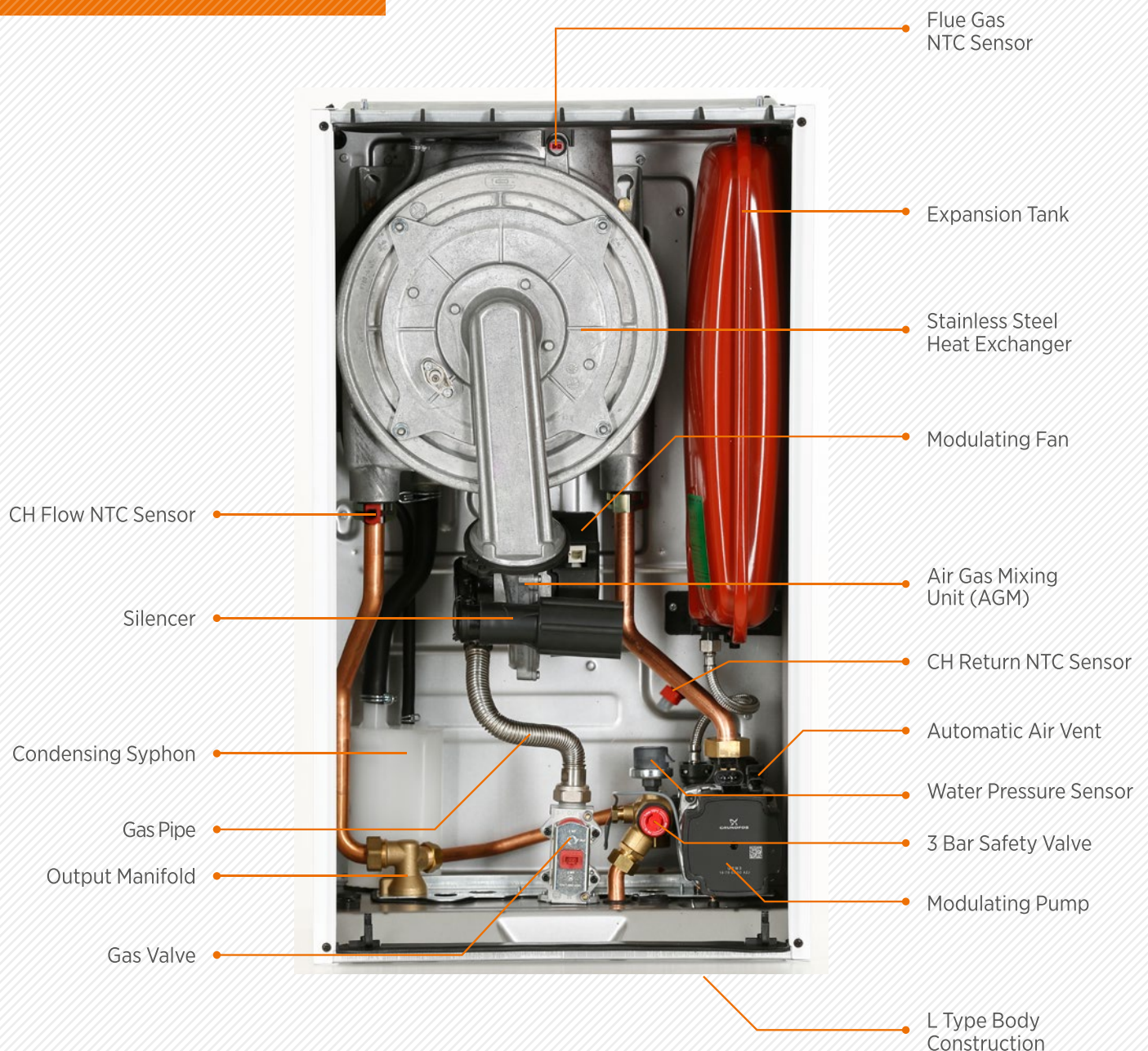
1. 1. OFF / Winter / Summer button
2. 2. C.H. temperature increase button
3. 3. C.H. temperature reduce button
4. 4. Reset button
5. 5. D.H.W. temperature increase button
6. 6. D.H.W. temperature reduce button



1. 230 V AC Electrical Connection
2. Manometer
3. Safety Valve Drain
4. Gas Inlet
5. Central Heating Flow (CH)
6. Central Heating Return (CH)
7. Condensate Drain

Components





Long Lasting
and Smooth Use
With High-Quality
Components










The heating only versions (Enerwa Plus HO) can be combined with a separate storage tank using the appropriate optional kit (AVC 220 Motorized Three Way Valve code 15211003000004). The kit is comprised of a motor and connector, to motorize the three-way valve and hydraulic fittings. Hot water storage tanks can be chosen in different capacities according to requirements.

Optional Heating Control Accessories

Room Thermostats & Heating Controls

Product Code	Product Name	Explanation	Product View
15311800000027	WT-07 Cabled Room Thermostat	With minimal dimensions and decreased 4 button keypad Remote control which is connected to boiler with cable can work in modulation, run weekly programs, adjust hot usage water and show boiler fault code in the screen and reset it. Daily 8 program can be applied for adjusting heating and Domestic Hot Water (Hot Water Storage Tank).	
15311800000021	WT-01 Cabled Wide Screen Room Thermostat	This remote control unit, which also has room thermostat feature, is connected to the combi boiler with cable and has 10-button keypad, where each function is assigned separately. This remote control features work in modulation, runs weekly programme, has DHW adjustment, shows boiler fault code on the screen and reset it. Daily 6 program can be applied for adjusting heating and Domestic Hot Water (Hot Water Storage Tank).	
15311800000022	WT-RF02 Wireless Wide Screen Room Thermostat	This remote control unit, which also has room thermostat feature, is connected to the combi boiler with wireless and has 10-button keypad, where each function is assigned separately. This remote control features modulated operation according to room temperature, weekly programs, DHW adjustment and display of the boiler fault code on the display and reset it. There are 6 daily programs for heating and DHW heating. Daily 6 program can be applied for adjusting heating and Domestic Hot Water (Hot Water Storage Tank).	
15311660600045	RC 21.11 Timer Room Thermostat	Thermostat which sets to apply weekly/ daily program to heater and boiler unit or a unite which can only be used as program clock. In case of using MLC 27, it is a mandatory accessory to use for weekly programming. In case the MLC 30 unit.	

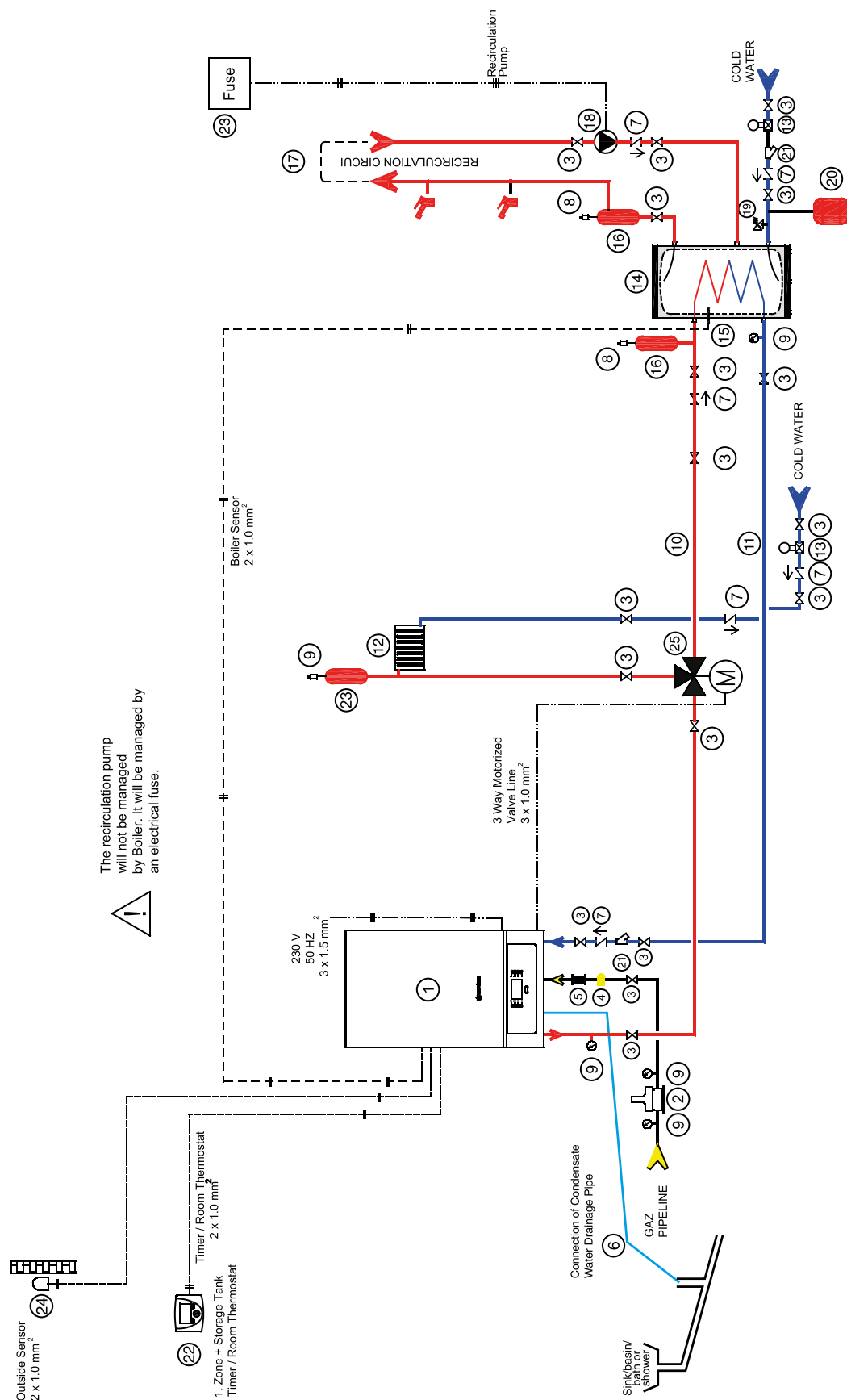
System Accessories

Product Code	Product Name	Explanation	Product View
15311660600046	MLC 27 Cascade Module	Control unit ensures Viwa 50 and Viwa 65 boilers to work as cascade.	
15311660600071	QAC 34 Outside Sensor	It is a sensor that must be connected to the MLC 27 Unit, which controls the cascade operation of Viwa 50 and Viwa 65 boilers.	
15311660600047	MLC 30 Multiple Zone Module	Control unit which controls Enerwa Plus HO boilers low temperature/ Floor Heating Zone (mix fledged circuit)	
15311660600049	QAZ 36 Immersion Boiler/ Hydraulic Separator Sensor	Immersion Sensor which is used to measure the temperature of Boiler or Hydraulic Separator and inform to the boiler.	
15311660600050	AVC 220 Motorized Three Way Valve	Strap-on Temperature Sensor which ensures the measure of temperature on pipe at hydraulic separator. It is used to measure the temperature of flow water of low heating zone at the double heating zone.	
15211003000004	AVC 220 Motorized Three Way	If a hot water tank is connected to a single boiler with a three-way valve, this accessory should be used. This product must be used with "Hot Water Storage Tank/ Hydraulic Separator Sensor".	
15311660600001	WDHS-01 Outside Sensor	It is the sensor which measures the outside air temperature and inform maximum outgoing water temperature to the boiler. A single boiler heating system or cascade heating systems must be used with one Outside Sensor to save fuel.	

Sample Installation Scheme

Single System Scheme











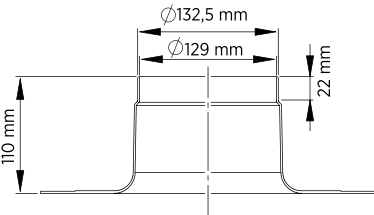
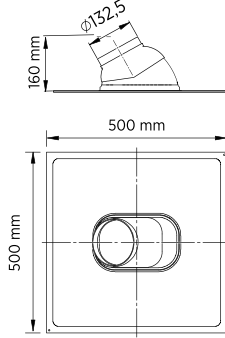
Viwa 50-65 Single Boiler with 1 High Temperature Zone + Hot Water Storage Tank System Scheme Example








INSTALLATION EQUIPMENT

- | | | |
|------------------------------|-----------------------------------|-----------------------------|
| 1. Boiler | 12. Heating System | 23. Fuse |
| 2. Gas Safety Solenoid Valve | 13. Pressure Reducer | 24. Outside Sensor |
| 3. Ball Valve | 14. Hot Water Storage Tank | 25. 3-Way Motorized Valve |
| 4. Gas Filter | 15. Hot Water Storage Tank Sensor | |
| 5. Vibration Isolator | 16. Air Separator | |
| 6. Condensate Water Siphon | 17. Hot Water Storage Tank | |
| | 7. Check-Valve | 18. Recirculation Pump |
| | 8. Automatic Air Vent | 19. Safety Valve |
| | 9. Manometer | 20. Extension Tank |
| | 10. Heating System Flow | 21. Filter |
| | 11. Heating System Return | 22. Timer / Room Thermostat |







Concentric Flue Kits For Condensing Boilers (Ø60/100 mm)

	Product Name	Product Code
 <p>0047_03.D210120</p>	<p>(Ø60/100) Condensing Concentric Horizontal Flue Set</p> <p>$L_{\text{Horizontal}} = L_{\text{From the center of the elbow}} + L_{\text{Terminal}}$</p> <p>$L_{\text{Total}} = 115 + 790 = 905 \text{ mm}$</p>	15311014000002 (White)
 <p>0048_03.D210120</p>	<p>(Ø60-100) Condensing Vertical Flue Set with Adapter</p> <p>$L = [L_{\text{Term}} + L_{\text{Extpipe}} + L_{\text{Adapter}} = 1000 + 500 + 145] = 1645 \text{ mm}$</p> <p>Extension Parts: (Ø60/100) Condensing Flue Extension, $L_{\text{Extpipe}} = 500 \text{ mm}$, (Ø60/100) Condensing Vertical Adapter, $L_{\text{Adapt}} = 145 \text{ mm}$</p>	15311660600013 (Black-White)
 <p>0049_03.D210120</p>	<p>(Ø60/100) Condensing Flue Extension</p> <p>$L = 500 \text{ mm}$</p>	15311660600014 (White)
 <p>0050_03.D210120</p>	<p>(Ø60/100) Condensing Flue Extension</p> <p>$L = 1000 \text{ mm}$</p>	15311660600015 (White)
 <p>0051_03.D210120</p>	<p>(Ø60/100) Condensing Flue Extension</p> <p>$L = 2000 \text{ mm}$</p>	15311660600016 (White)
 <p>0052_03.D210120</p>	<p>(Ø60/100) Condensing</p> <p>45° Elbow</p>	15311660600017 (White)
 <p>0053_03.D210120</p>	<p>(Ø60/100) Condensing</p> <p>90° Elbow $L = 170 \text{ mm}$</p>	15311660600018 (White)
 <p>0054_03.D210120</p>	<p>(Ø60/100) Condensing</p> <p>Vertical Adapter</p> <p>$L = 130 \text{ mm}$</p>	15311660600019 (White)
<p>Flat Roof Outlet Part</p> <p>15311660600124</p>  <p>0055_00.D210120</p>	<p>Pitched Roof Outlet Tile A = 500 x 500 mm</p> <p>15311660600125</p>  <p>0056_00.D210120</p>	 <p>0057_00.D210120</p>  <p>0057_00.D210120</p>

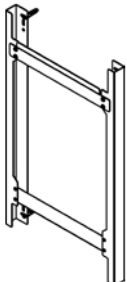
Twin Flue Kits For Condensing Boilers (Ø80/Ø80 mm)

	Product Name	Specification	Product Code
	Ø80 Twin Flue Set	Ø80 mm Flue Terminal = 985 mm Air Terminal = 939 mm High of Twin Flue Adapter = 155 mm	153.11.660.600096
	Ø 60 - Ø 80 Twin Flue Set Adapter	Ø60 mm > Ø80 mm + Ø80 mm High of Twin Flue Adapter H = 155 mm	153.11.660.600102
	Ø80 Condensing Twin Flue Extension Pipe L=500 mm	Ø80 mm; L = 500 mm	153.11.660.600091
	Ø80 Condensing Twin Flue Extension Pipe L=1000 mm	Ø80 mm; L = 1000 mm	153.11.660.600092
	Ø80 Condensing Twin Flue Extension Pipe L=2000 mm	Ø80 mm; L = 2000 mm	153.11.660.600093
	Ø80 Twin Flue Elbow (90°)	Ø80 mm; H= 152 mm	153.11.660.600094
	Ø80 Twin Flue Elbow (45°)	Ø80 mm; L = 117 mm	153.11.660.600095
	Ø80 Interior Wall Rosette	Ø80 x 145 mm	153.11.660.600099
	Ø80 Exterior Wall Rosette	Ø80 x 145 mm	153.11.660.600098
	Ø80 Flue Vertical Outlet Adapter with Condensate Trap	Ø80 mm; L = 145 mm	153.11.660.600100
	Ø80 Vertical Flue Kit	Ø80 mm; L = 861 mm	153.11.660.600097

Plume Displacement Kits Ø60 mm

	Product Name	Specification	Product Code
 <p>0058_01.D210120</p>	Plume Displacement Terminal Kit	With 1 m Extension Pipe, Elbow(87°), Plume Terminal and Bracket	15311660600031
 <p>0059_01.D210120</p>	Plume Displacement Kit Elbow	87°	15311660600032
 <p>0060_01.D210120</p>	Plume Displacement Kit Elbow	45°	15311660600033
 <p>0061_01.D210120</p>	Plume Terminal	87°	15311660600034
 <p>0062_01.D210120</p>	Flue Pipe Support Bracket		15311660600035
 <p>0063_01.D210120</p>	Plume Displacement Kit Extension	1000 mm	15311660600036

Rear-Pipe Stand Off Kit

	Product Name	Product Code
	Rear-Pipe Stand Off Kit	151.11.04.003

Technical Data

Technical Table	Unit	Enerwa Plus 2500 H				Enerwa Plus 3000 H				Enerwa Plus 3500 H			
CE Certificate		CE-1015CT0706 :18				CE-1015CT0706 :18				CE-1015CT0706 :18			
Gas Circuit *(Natural Gas G20) Heat Load (Hu=10,56 kWh/m³)													
Gas type		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
Gas supply pressure	mbar	20	25	30	37	20	25	30	37	20	25	30	37
Gas Consumption at Maximum	m³/h	2,38*	2,85	0,73	0,92	3,05*	3,47	0,86	1,18	3,40*	4,13	0,99	1,30
Gas Consumption at Minimum	m³/h	0,37*	0,43	0,11	0,11	0,40*	0,46	0,11	0,14	0,43*	0,52	0,13	0,17
Premix System		Gas Adaptive*				Gas Adaptive*				Gas Adaptive*			
Modulation Range		01:10				01:10				01:10			
Efficiency		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
(80/60 °C) Efficiency at Maximum Heat Output	%	98	98	97	98	98	98	98	99	98	98	98	98
(50/30 °C) Efficiency at Maximum Heat Output	%	105	105	102	104	105	105	103	105	105	106	103	105
Efficiency at 30% load at 36/30 °C	%	108	108	104	108	108	108	105	107	107	107	105	107
Seasonal space heating energy efficiency (expressed in terms of GCV)	%	92 (Class A)				92 (Class A)				92 (Class A)			
Radiator Circuit		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
Maximum Heat Output Pn (80/60 °C)	kW	23,7	23,7	23,6	23,7	28	28	28	28	33,02	33,02	32,8	33,02
Minimum Heat Output Pn (80/60 °C)	kW	3	3	3,2	2,5	3,5	3,5	3,25	3,45	4,1	4,1	4,1	4,1
Maximum Heat Output Pn (50/30 °C)	kW	25	25	24,70	25	30	30	29,5	30	35,5	35,5	34,7	35,5
Minimum Heat Output Pn (50/30 °C)	kW	3,6	3,6	3,55	2,9	3,90	3,90	3,74	3,59	4,60	4,60	4,60	4,60
Temperature selection range (min÷max) High/Low temperature	°C	25 - 80 / 25 - 47											
Operating Pressure (Minimum/Maximum)	bar	0,5/3				0,5/3				0,5/3			
Expansion tank useful volume	bar	8				10				10			
Pump pressure (at 1000 l/h flow rate)	mH₂O	6,5				6,5				6,5			
Pump pressure (at 500 l/h flow rate)	mH₂O	6,9				6,9				6,9			
Max. Pump Flow Rate	l/h	2500				2500				2500			
Pump Energy Efficiency Index (EEI)		≤ 0,20				≤ 0,20				≤ 0,20			
Electricity Circuit/Supply													
Electricity Consumption (Max./Min.)	Watt	95 / 55				104 / 60				115 / 65			
Protection Index	IP	IPX5D											
Exhaust Gas Circuit		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
(80/60 °C) Exhaust gas temperature (Min./Max.)	°C	69/71	65/70	57/70	60/70	61/66	55/65	57/67	58/65	57/62	57/62	54/67	58/67
(50/30 °C) Exhaust gas temperature (Min./Max.)	°C	49/51	48/49	43/57	47/51	45/45	44/44	42/50	43/45	47/44	47/45	41/48	49/49
NOx	Class	6				6				6			
Weighted value of Nox (GCV)	mg/kWh	20	19	42	31	41	31	43	49	34	32	43	53
General													
Dimensions (H x W X D)	mm	725 x 420 x 288				725 x 420 x 288				725 x 420 x 288			
Sound Level	dB (A)	52				54				50			
Hydraulic Group Material		Brass				Brass				Brass			
Net Weight/Packed Device Weight	kg	28 / 30,2				30 / 32,2				31 / 33,2			

Gas Adaptive (*): This boiler fitted with gas/air ratio controls. Gas and air ratio control settings must not be changed un autorised persons. The gas valve calibration method is explained on service manual and has to be done by Warmhaus official service.



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