



Product Brochure

Wall-Hung Type  
Premix & Gas Adaptive System  
Condensing Boiler

**Viwa 50**  
**Viwa 65**



## About Warmhaus

Warmhaus is an affiliate of Beyçelik Holding which produces boilers, high capacity wall hung condensing boilers water heaters and steel panel radiators with experience in HVAC industry since 1996.

- **27.500 sqm** panel radiator production facility
- **8.000 sqm** boiler production facility
- Exports to more than **40 countries**
- Annual panel radiator production capacity of **2.700.000 meters**
- Annual boiler production capacity of **150.000 units**
- 3.000 sqm warehouse and sales office in **United Kingdom**
- **46th company** in ranking ISO second 500 Big Institution

With modernised production lines and high quality products; Warmhaus heat houses and buildings in more than 40 countries.



WARMHAUS PRODUCTS HEAT HOUSES AND BUILDINGS IN MORE THAN 40 COUNTRIES.

OUR PRODUCTION LINES ARE EQUIPPED WITH **MODERNIZED AUTOMATION SYSTEMS.**

WARMHAUS EXPORTS **60 PERCENT OF ITS PRODUCTION** TO THE REST OF THE WORLD.





# Global Heating Brand

Products developed by Warmhaus R&D center are shipped all over the world.

Warmhaus UK  
3000 sqm warehouse  
and sales office

- Algeria
- Argentina
- Azerbaijan
- Belgium
- Bulgaria
- Chile
- China
- England
- Estonia
- France
- Georgia
- Germany
- Greece
- Hungary
- India
- Iran
- Iraq
- Ireland
- Italy
- Jordan
- Kazakhstan
- Kosovo
- Kyrgyzstan
- Latvia
- Lithuania
- Macedonia
- Moldova
- Mongolia
- Northern Cyprus
- Pakistan
- Poland
- Portugal
- Romania
- Russia
- Scotland
- Serbia
- Spain
- Tunisia
- Turkmenistan
- Ukraine
- Uzbekistan



THANKS TO THE  
**MODERN WAREHOUSE,**  
FAST DELIVERY WITH  
THE AUTOMATED  
SHELVING SYSTEM.



WARMHAUS IS AMONGST  
THE **TOP 10** PANEL  
RADIATOR PRODUCERS  
IN THE WORLD, AND  
THE **TOP 4** IN TURKEY.



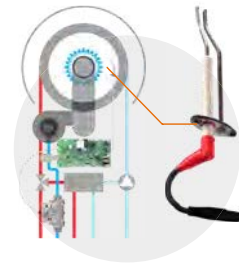
OUR PRODUCTS  
ARE CERTIFIED BY  
INTERNATIONAL  
INSTITUTIONS TO  
MEET THE **HIGHEST**  
**INDUSTRY STANDARDS.**

# Viwa

50-65 kW



## 11 Reasons to Choose Viwa Boiler



### Gas Adaptive System

Viwa 50 and Viwa 65 boilers have gas adaptive system features that provide continuous high efficiency by adjusting the ideal air and gas ratio.



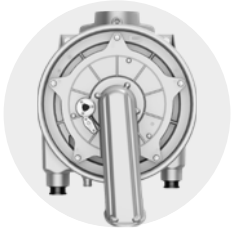
### High Productivity in all Season with 13-100% (1:8) Modulation Ratio

It ensures high productivity every time both in mid-season and at while minimum power is needed with cutting ability its maximum power 13% ÷ 100% (1:8) ratio.



### Compatible Operation with RecoWa Smart Room Thermostat

RecoWa, which can establish Wi-Fi or RF wireless communication with heating systems installed with a single boiler, allows you to control your heating system from anywhere with its smart mobile phone application.



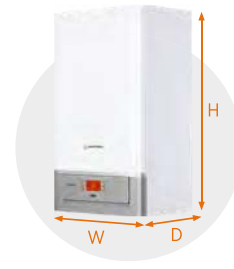
## Stainless Steel Exchanger

High efficient coil type exchanger provides long product life and decreases clogging risk to minimum with its watertight and wide hydraulic channels.



## Cascade up to 6 boilers & 390 kW power

With the optional MLC 27 Cascade Module accessory, central system heating power of up to 390 kW can be achieved by operating cascade up to 6 boilers.



## Compact Dimensions & Less Installation Area

**(W:425 x D:385 x H:725 mm)**

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



## Multi-zone management

With an external optional MLC 30 Multiple Zone 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.



## Built-in Air & Dirt Separator

Built-in mini Air & Dirt Separator on the exhaust manifold prevent air and particle in the system from damaging the exchanger.



## Perfect Body Insulation

High Usage Productivity is ensured by 10 mm thickened insulation which prevents heat loss from boiler body and decreases sound level.



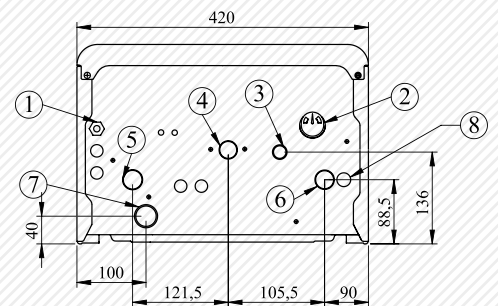
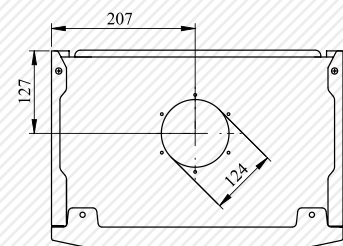
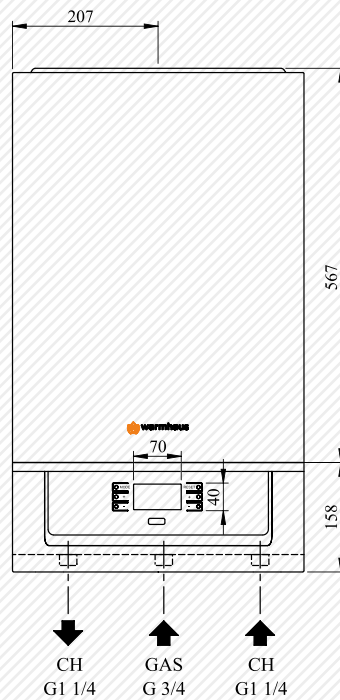
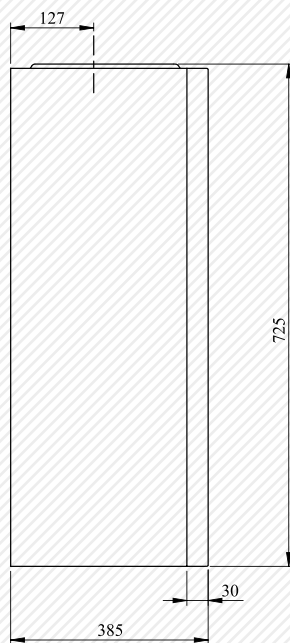
## Hermetic Flue Connection

Warmhaus Viwa boilers have room sealed hermetic boiler design and compatible with Ø80/125 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. OFF / Winter / Summer button
2. C.H. temperature increase button
3. C.H. temperature reduce button
4. Reset button
5. D.H.W. temperature increase button
6. D.H.W. temperature reduce button

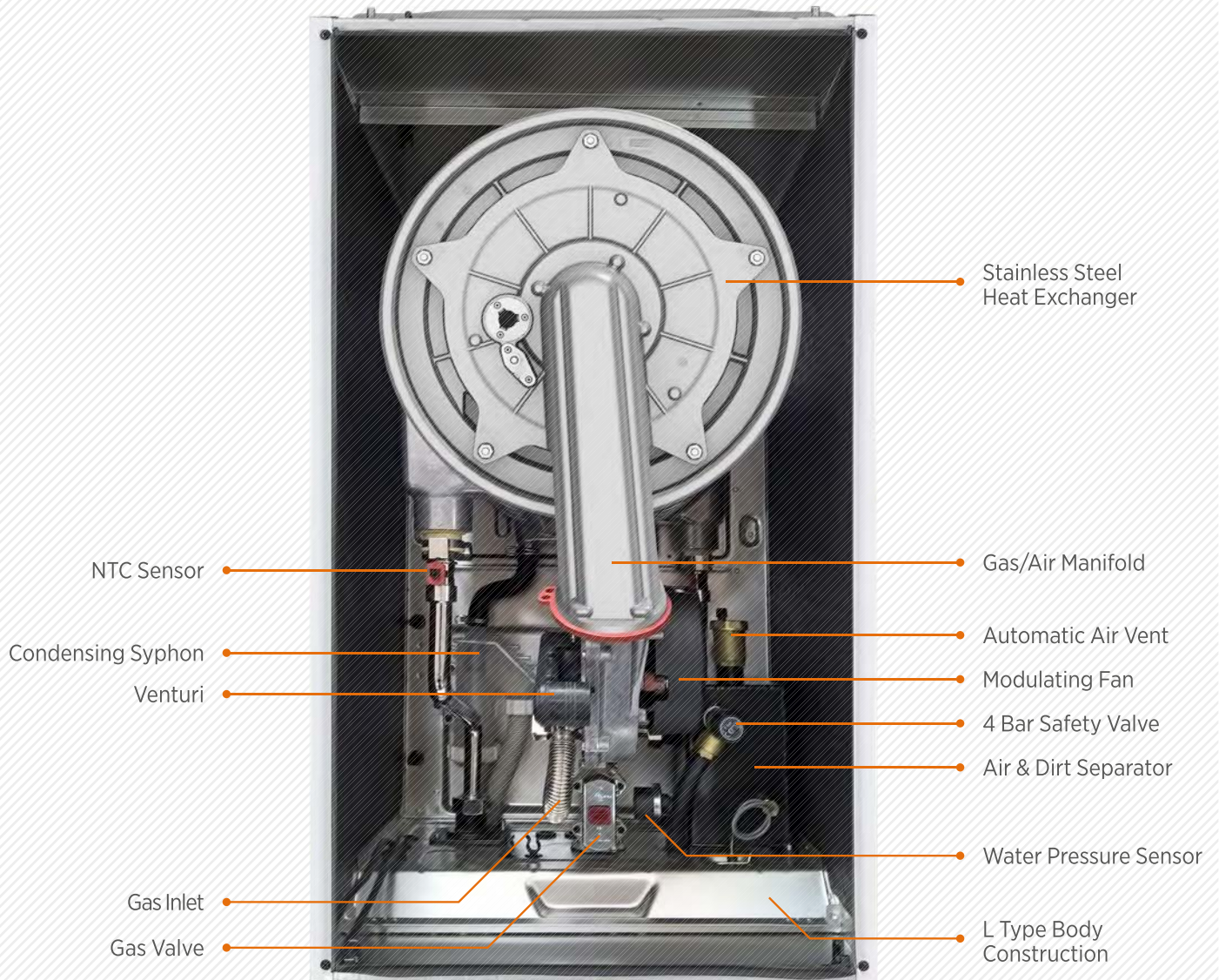


1. 230 V AC Electrical Connection
2. Manometer
3. Safety Valve Out Line
4. Gas Inlet
5. Heater Outgoing Line
6. Heater Return Line
7. Condensate Output Line
8. Sludge-Dirt Remover Unload Line



# Components

Long Lasting and Smooth Use With High-Quality Components



# Optional Accessories


## Viwa 50-65 System Accessories

Product Code	Product Name	Explanation	Product View
15311660600020	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).	
15311660600021	WT-08 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).	
15311660600022	WT-RF03 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).	
15311660600001	WDHS-01 Outside Temperature 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 must be used with one Outside Sensor to save fuel.	
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.	
15311660600046	MLC 27 Cascade Module	Control unit ensures Viwa 50 and Viwa 65 boilers to work as cascade.	
15311660600047	MLC 30 Multiple Zone Module	It is a control unit board that should be used to control a Low Temperature / Underfloor Heating Zone (circuit with mixing valve and pump) or to manage 4 different high temperature zones with Viwa 50 and Viwa 65 boilers.	
15311660600049	QAZ 36 Immersion Boiler/ Hydraulic Separator Sensor	It is Immersion Sensor used to measure DHW Storage Tank temperature or Hydraulic Separator temperature and report it to the boiler.	
15311660600050	QAD 36 Strap-on Temperature Sensor	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" .	
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.	

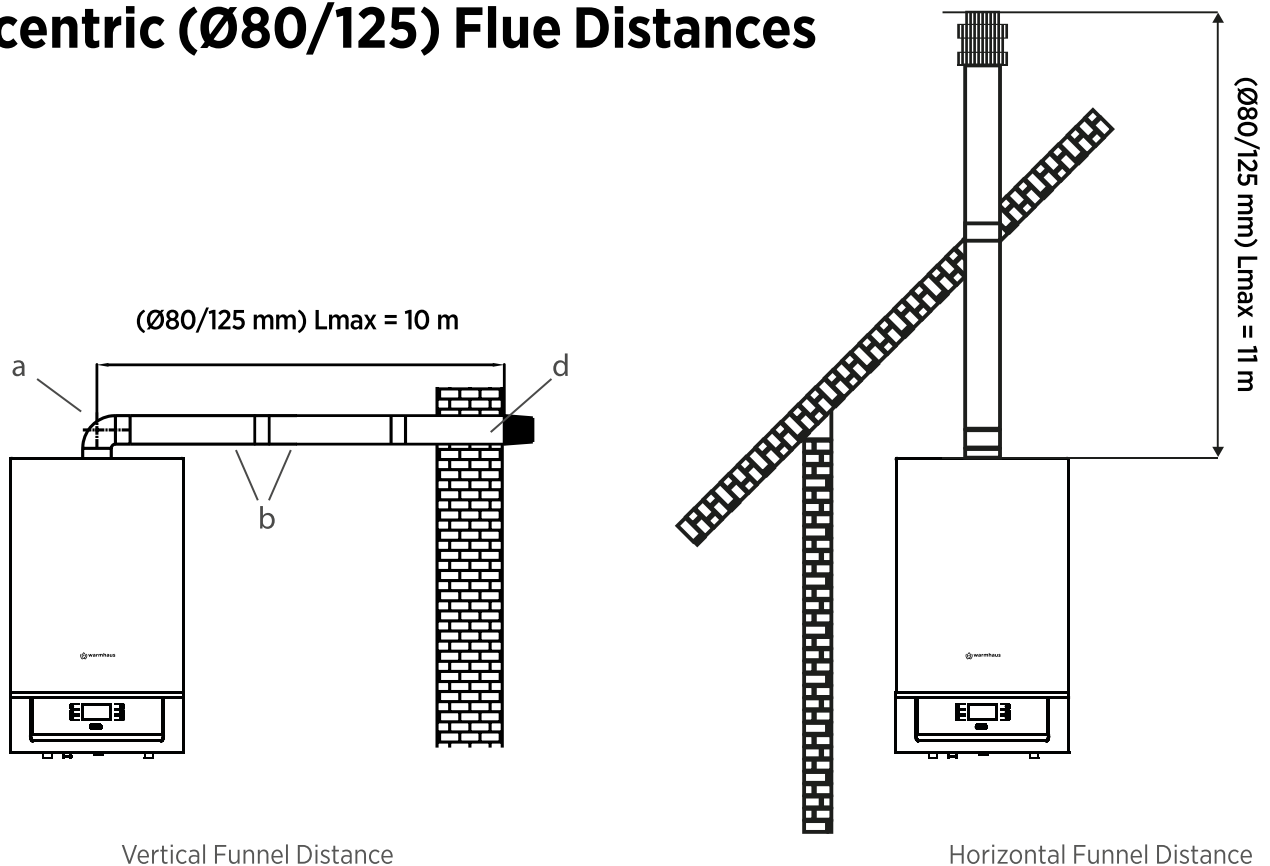


# Pump Set Accessories for Boilers



Pump with high pressure and flow rate for Warmhaus Viwa wall hung boilers.

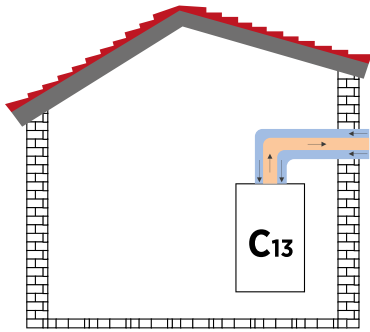
Product Code	Product Name	Explanation	Product View
15211003000001	50-65 WW/Pump Set with Frequency Controlled	<b>Wilo-PARA 25/8</b> SC pump set with modulated pump connected with 2 connector, check valve and seal set. It is installed just below the boiler.	 <ol style="list-style-type: none"> <li>1. 1 1/4" Tesnit Seal</li> <li>2. Pump Union 1 1/4"-1"</li> <li>3. 1" Check Valve</li> <li>4. 1" Nipple</li> <li>5. Pump Union 1" 1 1/2"</li> <li>6. 1 1/2" TESNIT® Seal</li> <li>7. Pump</li> </ol>

## Concentric (Ø80/125) Flue Distances

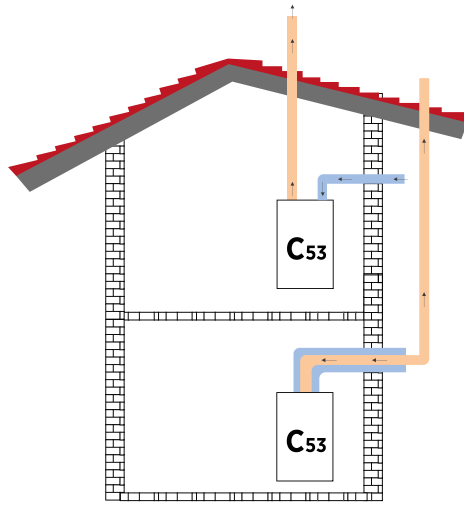


# Flue Connection Types

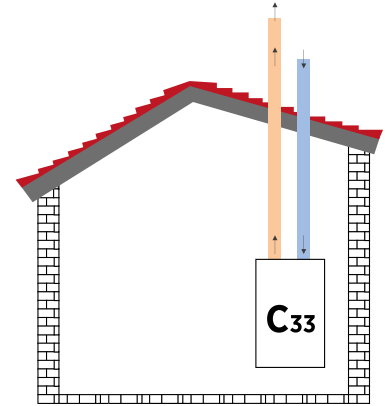
 Air  
 Exhaust gas



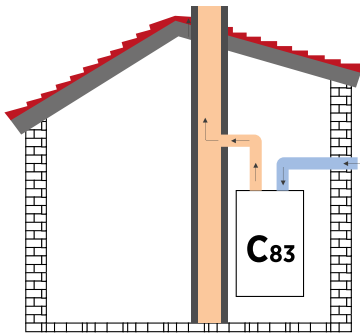
Discharge with concentric flue connection



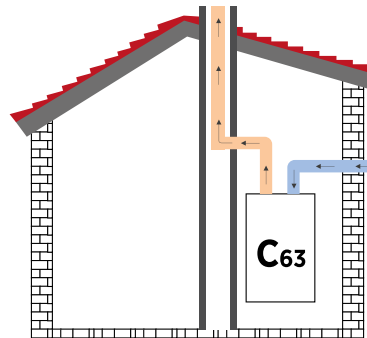
Exhaust gas discharge and fresh air intake with concentric flue kit and separate flue kits



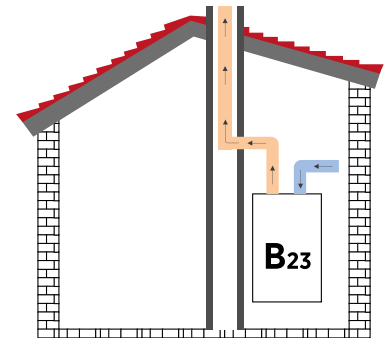
Exhaust gas discharge and fresh air intake with separate flue kits



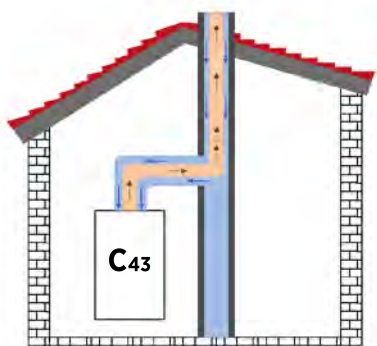
Discharge to building chimney and fresh air intake with separate flue connection



Exhaust gas discharge through building chimney and fresh air intake with separate flue sets



Exhaust gas discharge through building chimney and fresh air intake from inside of the building with separate flue sets.





Separate ducts are used here for combustion air supply and flue gas discharge, ensuring that every appliance is supplied with fresh combustion air

# Optional Flue Accessories

## Concentric (Optional) Flue Accessories (Ø80/125 mm) for Viwa 50 & Viwa 65 Wall-Hung Type Premix Condensing Boilers

The flue accessories can be mounted with each other by a tight fit method and therefore no additional parts are required for connection.

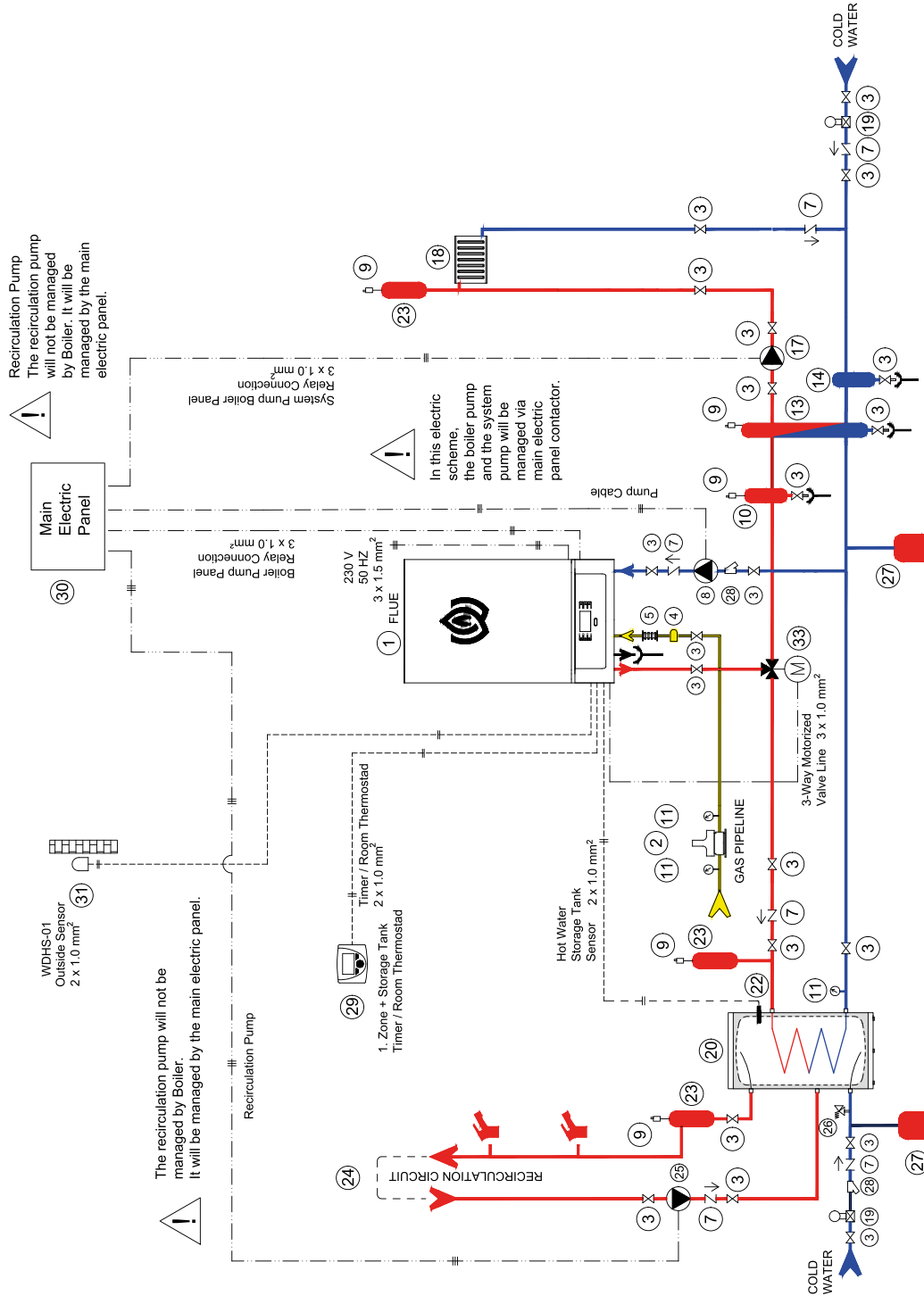
Product Code	Product Name	Explanation	
15311014000006	Ø 80/125 Horizontal Flue Set	Horizontal Flue Set can be used till 10 m with Streching Flue Accessroies .	
15311660600025	Ø 80/125 Extension Flue L=500 mm	It can be used with Horizontal Flue Set and Vertical Set.	
15311660600026	Ø 80/125 Extension Flue L=1000 mm	It can be used with Horizontal Flue Set and Vertical Set.	
15311660600027	Ø 80/125 Extension Flue L=1500 mm	It can be used with Horizontal Flue Set and Vertical Set.	
15311660600028	Ø 80/125 Extension Flue L=2000 mm	It can be used with Horizontal Flue Set and Vertical Set.	
15311660600029	Ø 80/125 Bend (45°)	It can be used in horizontal and / or vertical flue applications. Each 45° bend usage requires to decrease maximum 50 cm from horizontal/ vertical deistance.	
15311660600030	Ø 80/125 Bend (90°)	It can be used in horizontal and / or vertical flue applications. Each 90° bend usage requires to decrease maximum 100 cm from horizontal/vertical deistance.	
15311660600037	Ø 80/125 Vertical Flue Set	Vertical Flue Set can be used with Extension Flue Accessories up to 11 mm. For usage of Vertical Flue Set Ø80/125 Vertical Flue Adaptor must be installed to boiler flue output. Extension Parts: (Ø80/125) Condensing Flue Extension, $L_{\text{Extpipe}} = 500$ mm (Ø80/125) Condensing Vertical Adapter, $L_{\text{Adapt}} = 85$ mm $L = [L_{\text{Term}} + L_{\text{Extpipe}} + L_{\text{Adapt}} = 1203,5 + 500 + 85]$ $L_{\text{TOTAL}} = 1788,5$ mm	
15311660600038	Ø80/125 Vertical Flue Adaptor	It is the accessory which must be installed to boiler flue output if Vertical Flue Set is used.	
15311660600039	BOB 80.100 Flue Check Valve	If more than one boiler is used in cascade system , it is the 45° angled valve accessory which must be installed to flue output of each boiler. Boiler connection is Ø80 and collector connection is Ø100 mm.	
15311660600067	BOB 80.100 Flue Check Valve	If more than one boiler is used in the cascade system, accessory with Flue Check Valve must be fitted to the flue outlet of each boiler. Boiler connection is Ø80 and collector connection is Ø100 mm.	
15311660600141	Ø80/125 Vertical Flue Adapter with Condensate Drain		



# Sample Installation Scheme

## Single Boiler Scheme

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



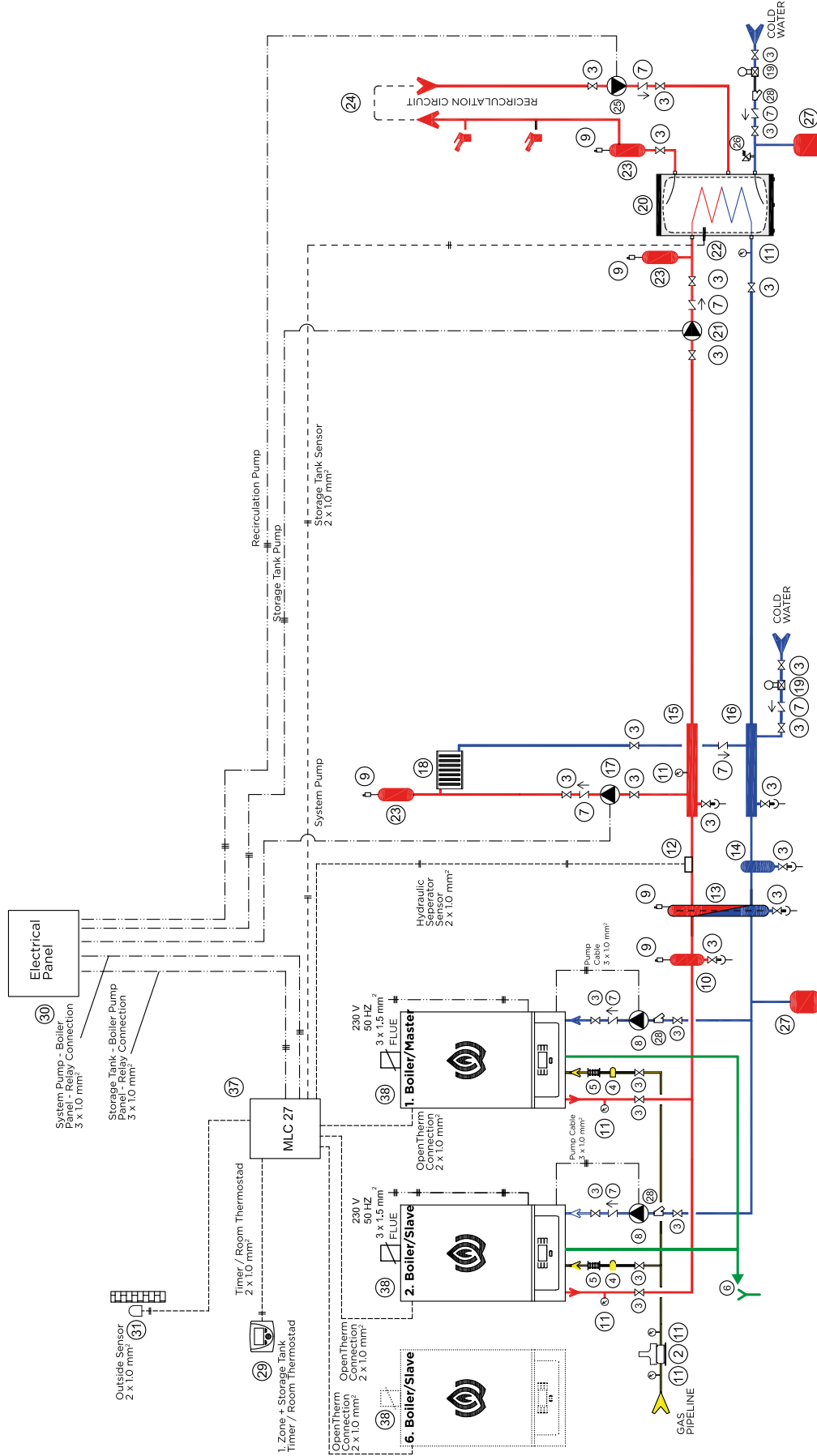
#### INSTALLATION EQUIPMENT

- |  |   |  |
|--|---|--|
| 1. Boiler                                    | 17. Heating System Pump                                   | 30. Main Electric Panel                      |
| 2. Gas Safety Solenoid Valve                 | 18. Heating System  | 31. WDHS-01 Outside Sensor (115311660600001) |
| 3. Ball Valve                                | 19. Pressure Reducer                                      | 33. 3-Way Valve (152110030000004)            |
| 4. Gas Filter                                | 20. Hot Water Storage Tank                                |  |
| 5. Vibration Isolator                        | 22. QAZ 36 Hot Water Storage Tank Sensor (15311660600049) |  |
| 6. Condensate Water Siphon and Drainage Line | 23. Air Separator   |  |
|  | 24. Hot Water Storage Tank Recirculation Circuit          |  |
|  | 25. Recirculation Pump                                    |  |
|  | 26. Safety Valve  |  |
|  | 27. Vessel Tank   |  |
|  | 28. Filter  |  |
|  | 29. Timer / Room Thermostat                               |  |

# Sample Installation Scheme

Cascade System Scheme

## Cascade System with Viwa 50-65 Boilers and 1 Radiator (High Temperature) Circuit and Hot Water Storage Tank Scheme Example



### INSTALLATION EQUIPMENT

- 1. Boiler/Slave
- 2. Boiler/Slave
- 3. Boiler/Master
- 4. Gas Filter
- 5. Vibration Isolator
- 6. Condensate Water Siphon and Drainage Line
- 7. Check-Valve
- 8. Boiler (Return) Pump
- 9. Automatic Air Vent
- 10. Sediment-Dirt-Air Separator
- 11. Manometer
- 12. Hydraulic Separator Sensor
- 13. Hydraulic Separator
- 14. Sediment-Dirt-Separator
- 15. Heating System Flow Collector
- 16. Heating System Return Collector
- 17. Heating System Pump
- 18. Heating System
- 19. Pressure Reducer
- 20. Hot Water Storage Tank
- 21. Hot Water Storage Tank Pump
- 22. Hot Water Storage Tank Sensor
- 23. Air Separator
- 24. Hot Water Storage Tank Recirculation Circuit
- 25. Recirculation Pump
- 26. Safety valve
- 27. Vessel Tank
- 28. Filter
- 29. Timer / Room Thermostat
- 30. Main Electric Panel
- 31. Outside Sensor
- 37. MLC 27 Cascade Module
- 38. Flue Check Valve

# Technical Data

TECHNICAL DATA		UNIT	Viwa 50			Viwa 65		
<b>Gas Circuit</b>								
Gas type			G20	G25	G31	G20	G25	G31
Gas supply pressure	mbar		20	25	37	20	25	37
Gas Consumption at Maximum	m <sup>3</sup> /h		4,809	5,767	1,952	6,506	7,4	2,45
Gas Consumption at Minimum	m <sup>3</sup> /h		0,619	0,758	0,26	0,825	0,94	0,32
*(Natural Gas G20) Heat Load (Hu=10,56 kWh/m <sup>3</sup> )								
<b>Premix System</b>			Gas Adaptive			Gas Adaptive		
<b>Modulation Range</b>			1/8			1/8		
<b>Heat Exchanger Material</b>			Stainless steel			Stainless steel		
<b>Efficiency</b>			G20	G25	G31	G20	G25	G31
<b>Seasonal Space Heating Energy Efficiency Class</b>		%	A			A		
<b>Seasonal Space Heating Energy Efficiency (η<sub>s</sub>)</b>		%	92	92	91	93	92	91
Useful efficiency at rated heat output and high temperature regime(2) (η <sub>4</sub> )		%	88,07			87,8		
Useful efficiency at 30% of rated heat output and low temperature regime(1) (η <sub>1</sub> )		%	97,11			97,39		
<b>Radiator Circuit</b>			G20	G25	G31	G20	G25	G31
Maximum heat input Q <sub>n</sub>	kW		50	50	50	65	65	65
Minimum heat input Q <sub>n</sub>	kW		6,5	6,5	6,5	8,0	8,0	8,0
Useful heat output at rated heat output and high temperature regime (2) (P <sub>4</sub> )	kW		45,73	48,7	48,7	57,78	63,2	63,2
Useful heat output at 30% of rated heat output and low temperature regime (1) (P <sub>1</sub> )	kW		8,12	8,9	8,7	11,54	11,5	11,2
Maximum Heat Output P <sub>n</sub> (80/60 °C)	kW		48,70	48,70	48,70	63,2	63,2	63,2
Minimum Heat Output P <sub>n</sub> (80/60 °C)	kW		6,20	6,20	6,30	7,8	7,7	7,7
Maximum Heat Output P <sub>n</sub> (50/30 °C)	kW		52,60	52,60	51,40	68	68	66,5
Minimum Heat Output P <sub>n</sub> (50/30 °C)	kW		6,80	6,80	6,70	8,5	8,4	8,2
Temperature selection range (min÷max) high temperature	°C					25÷80		
Temperature selection range (min÷max) low temperature	°C					25÷47		
Operating Pressure (Maximum)	bar					4		
Operating Pressure (Minimum)	bar					0,5		
Temperature adjustment range (DHW)	°C					35 - 60		
<b>Electricity Circuit</b>								
Electricity Supply	V AC-50 Hz					230 V + %10; - %15		
Protection Index	IP					IPX5D		
Electricity Consumption (Max./Min.)	Watt		172 / 92			231 / 100		
<b>Exhaust Gas Circuit</b>			G20			G20		
(80/60 °C) Exhaust gas temperature (Min. / Max.)	°C		55.7 / 62.1			61.4 / 72.0		
(50/30 °C) Exhaust gas temperature (Min. / Max.)	°C		37.2 / 44.4			40.0 / 51.0		
NO <sub>x</sub>	Class		6	6		6	6	
Weighted value of NO <sub>x</sub> (GCV)	mg/kWh		40	52		40	48	
Flue mass flow rate (60/80°C - Q <sub>n</sub> ) Nominal/Minimum	g/s		22.25 / 2.83			28.50 / 3.50		
Fan head loss	Pa		12 ÷ 170			12 ÷ 210		
<b>General</b>								
Dimensions (H x W x D)	mm					725 x 420 x 385		
Sound Level	dB (A)		61			58		
Net Weight	kg		40			46		
Packed Device Weight	kg		42			48		
Type			B <sub>25</sub> , B <sub>23P</sub> , B <sub>33</sub> , C <sub>13</sub> , C <sub>33</sub> , C <sub>43</sub> , C <sub>53</sub> , C <sub>63</sub> , C <sub>83</sub> , C <sub>93</sub>					
Category			I2H, I2E, I2E+, I2E(s), I2L, I2ELL, I3P, I12H3P, I12L3P all I2E+3P (G20=20 mbar)					



# Warmhaus Technical Trainings

**We support our business partners with comprehensive trainings and technical documentation.**

Please visit our production site. All attendees receive a certificate at the end of the training.



**During our training, our partners receive detailed information about the topics below:**

- Operation Principles of Boilers
- Type of Boiler Technologies
- General Features of Warmhaus Boilers
- Operation Principles of Warmhaus Boilers
- Components of Warmhaus Boilers
- Differentiation points of Warmhaus Boilers



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