



Product Brochure

Wall-Hung Type  
Premix System  
Condensing Boiler

**Viwa 90**  
**Viwa 115**  
**Viwa 125**  
**Viwa 150**



## 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 in Turkey**

With modernised production lines and high quality products; Warmhaus warms 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

90-115-125-150 kW



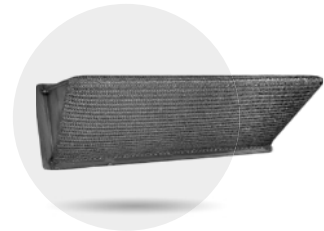
**12 Reasons to  
Choose  
Viwa Boiler**

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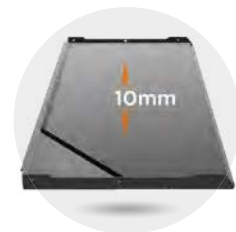
## **Built-in Cascade Control Unit**

Built-in Cascade Module control unit provides connection and communication between boilers without needing additional devices. So each boiler can be used as master or slave.



## **Perfect Heat Transfer Aconit® Burner**

The Aconit® burner with excellent heat transfer is specially designed for maximum utilization of the heat exchanger surface. Thanks to its wide modulation rate and low surface temperature it provides highest performance and lowest NOx emission.



## **Perfect Body Insulation**

High usage efficiency is ensured thanks to 10 mm thick insulation which prevents heat loss from boiler body and decreases sound level.



## Cascade Installation up to 14 x 150 = 2100 kW

It is also possible to build cascade system without cascade control unit up to 14 boilers and 2100 kW.



## Compatibility with different cascade control panels

Warmhaus Viwa boilers are able to communicate with OpenTherm communication protocol and work with various cascade control systems available in the market.



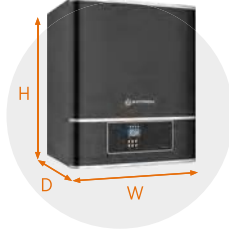
## Multiple Part Management

With an optional MLC 30 module 4 direct heating circuit and hot water tank or 1 low temperature zone, one high temperature zone and one tank circuit can be controlled.



## Easy and Quick installation with Smart Plug System

Easy and quick cascade installation up to fourteen boilers with built-in cascade unit and smart plug system.



## Installation to Limited Space With Compact Dimensions

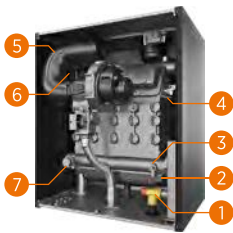
**W:615 x D:490 x H:720 mm**

Compact dimensions and adjacent installation capability allows installation with limited spaces.



## Al-Si-Mg Alloyed Monobloc Exchanger

Al-Si-Mg alloyed exchanger is more efficient compared to stainless steel and highly resistant to corrosion.



## Superior Safety and Control System

1. Safety Relief Valve of 6 bar
2. Flue Over Temperature NTC Sensor
3. CH Return NTC Sensor
4. Ignition and Ionization Electrode
5. Automatic Air Relief Valve
6. High Limit Thermostat
7. Pressure Sensor



## Built-in Air & Dirt Separator

Built-in mini Dirt Separator on the exhaust manifold prevents damaging particles going into the system.



## Hermetic Flue Connection

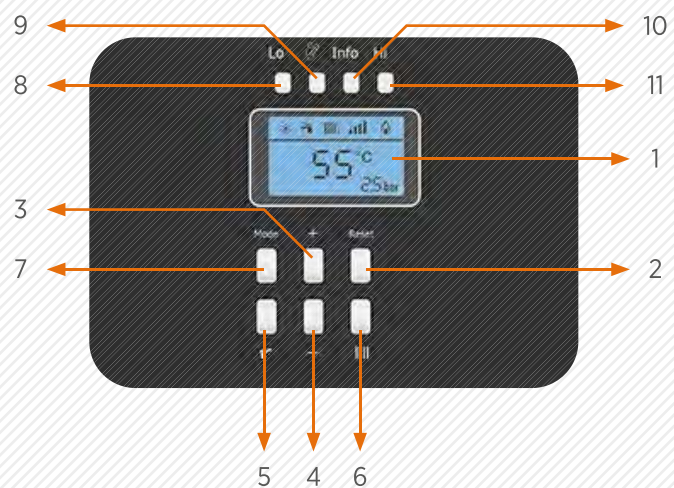
Warmhaus Viwa boilers have room sealed hermetic boiler design and compatible with Ø100/150 mm concentric flue connection. Each boiler can be used with its own flue sets independent from each other which makes cascade systems easy to install in roof spaces without a stainless steel flue.

# Dimensions

The Smallest  
and Lightest  
Boiler in its  
Segment:  
Viwa 150

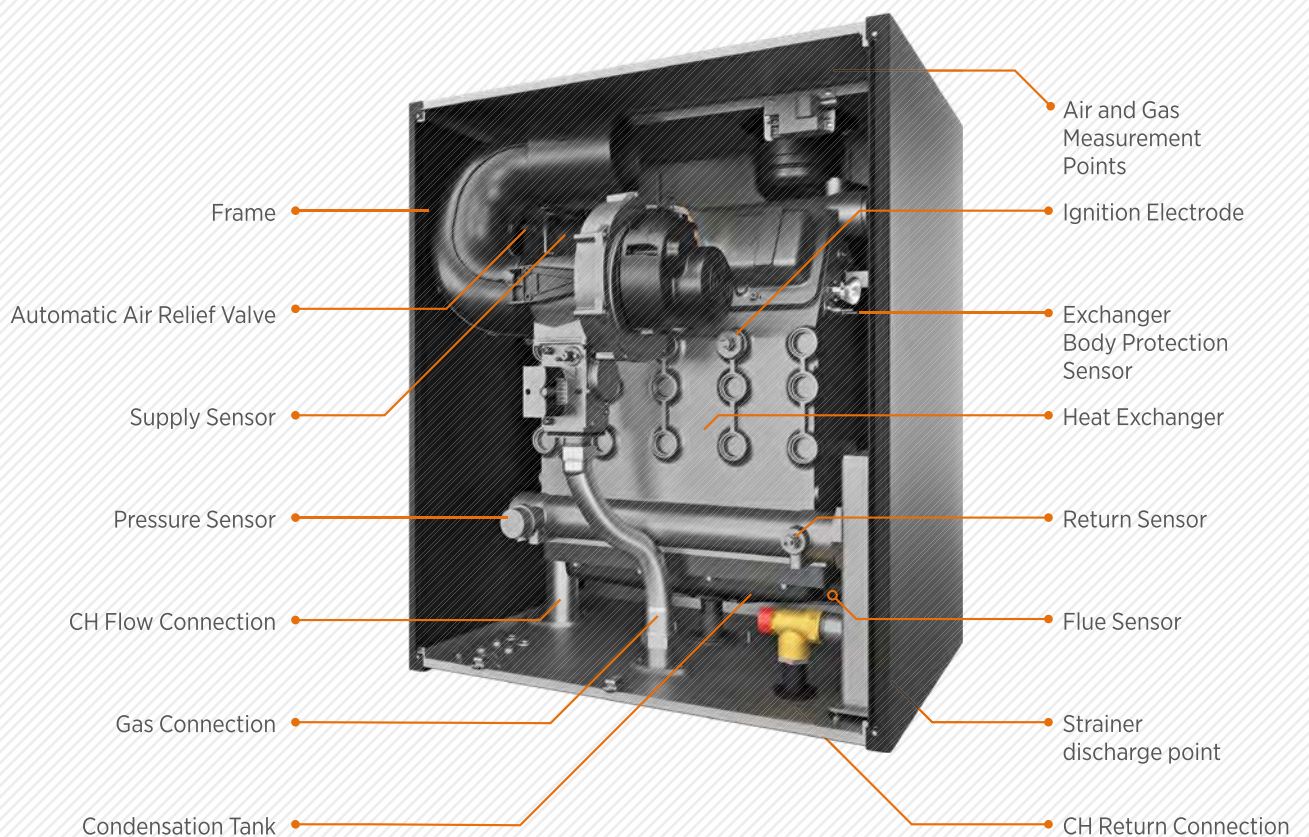
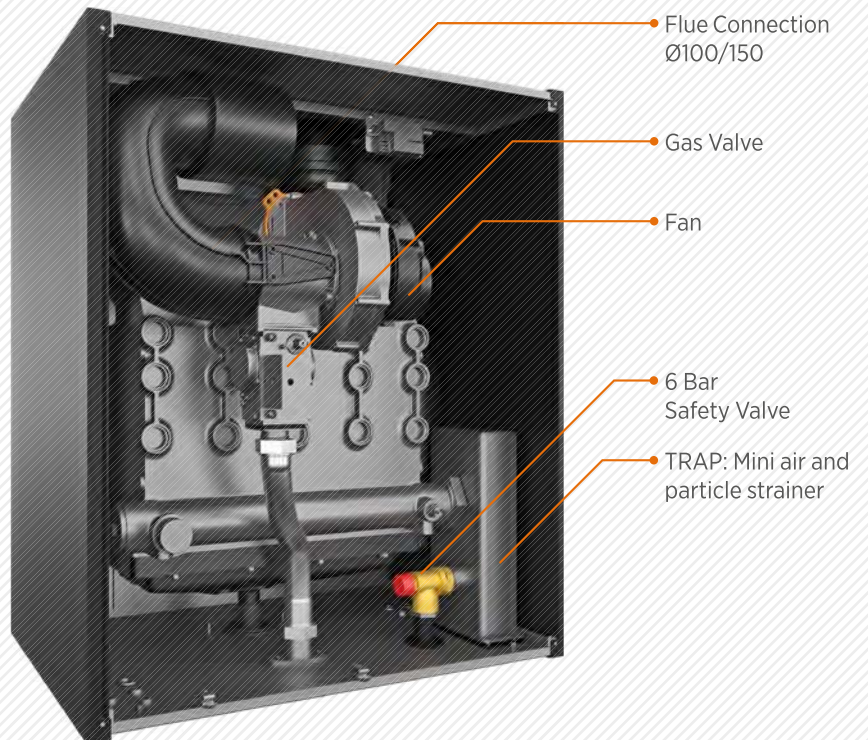


1. LCD Screen
2. Reset Button
3. Temperature Increase Button
4. Temperature Decrease Button
5. Summer Mode Button
6. Winter Mode Button
7. Mode Button
8. Lo Button
9. Chimney Button
10. Info Menu Button
11. Hi Button










# Components

Long Lasting  
and Smooth  
Use With  
High-Quality  
Components




# Control Accessories for Cascade System

Accessory Code	Accessory Name	Explanation	Matching Product	Product View
15311660600001	WDHS-01 Outside Sensor	Sensor which regulates boiler according to outside air temperature.	Viwa 50-150	
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.	Viwa 50-150	
15311660600049	QAZ 36 Immersion Boiler / Hydraulic Separator Sensor	Immersion Sensor which is used to measure DHW storage tanks or Hydraulic Separator Temperature and transfers information to boiler.	Viwa 50-150	
15311660600050	QAD 36 Strap-on Temperature Sensor	Strap-on Temperature Sensor for connection on pipe at the output of hydraulic separator. It is used to measure flow water temperature of second zone at the double heating zone.	Viwa 50-150	
15311660600053	MST80 Calibrated Surface Thermostat	Pipe clamp type adjustable for heating zone thermostat	Viwa 50-150	
15311660600047	MLC 30 Multiple Zone Module	Unit which controls the low temperature of Viwa 90, Viwa 115, Viwa 125 and Viwa 150 boilers / underfloor heating zone (blend valve circuit ).	Viwa 50-150	
15311660600071	QAC 34 Outside Sensor	Mandatory if RVS unit is used. Regulates boiler according to outside temperature.	Viwa 50-150	



## Pump Sets (Optional)

High pressure and flow rate pump for Warmhaus Viwa wall hung boilers.

Accessory Code	Accessory Name	Explanation	Matching Product
15211003000002	Viwa 90, Viwa 115 and Viwa 125 Pump Set with frequency inventors	<b>Wilo-YONOS PARA HF 25/7</b> pump set with modulation, 2 connectors, check valve and seal set for Viwa 90, Viwa 115 and Viwa 125. It is installed just below the boilers.	 Pump Set for Viwa 90, Viwa 115 and Viwa 125
15211003000003	Viwa 150 Pump Set with frequency Inventors	<b>Wilo-YONOS PARA HF 25/10</b> pump set with modulation, 2 connectors, check valve and seal set for Viwa 150. It is installed just below the boilers.	 Pump Set for Viwa 150

## Pump Set Accessories

High pressure and flow rate pump for Warmhaus Viwa wall hung boilers.



**WILO -Yonos PARA**



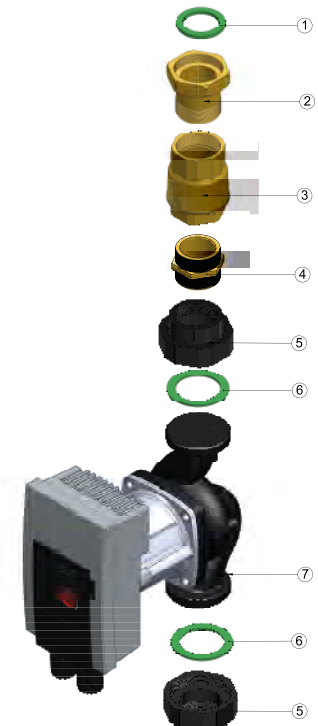
### Pump set with frequency inverter for Viwa 90, 115 and 125.

- 1 1 1/2" TESNIT® Seal
- 2 Pump Union 1 1/2" - 1 1/4"
- 3 1 1/4" Check Valve
- 4 1"-1 1/4" Pump Reduction
- 5 1"-1 1/4" Nipple
- 6 Pump Union 1 1/2"
- 7 Pump



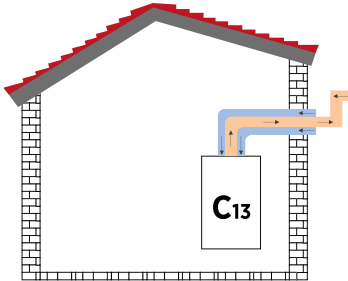
### Pump set with frequency Inverter for Viwa 150.

- 1 1 1/2" TESNIT® Seal
- 2 Pump Union 1 1/2" - 1 1/4"
- 3 1 1/4" Check Valve
- 4 1 1/4" Nipple
- 5 Pump Union 1 1/4" - 2"
- 6 2" TESNIT® Seal
- 7 Pump

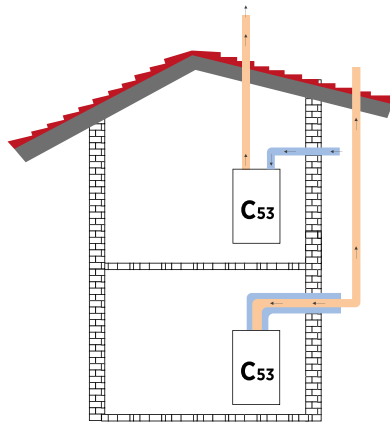


# Flue Connection Types

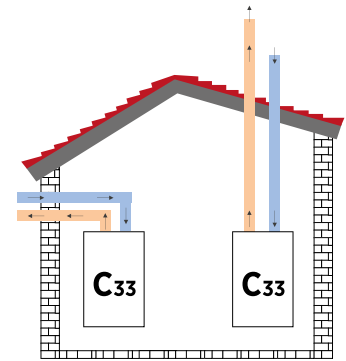
 Air  
 Exhaust gas



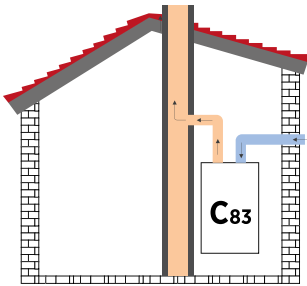
Discharge with concentric flue connection



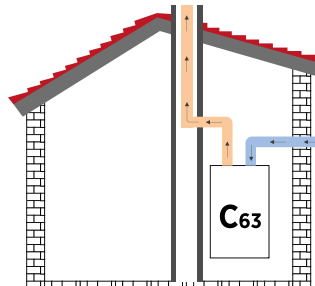
Exhaust gas discharge and fresh air intake with concentric flue kit and separate flue kits



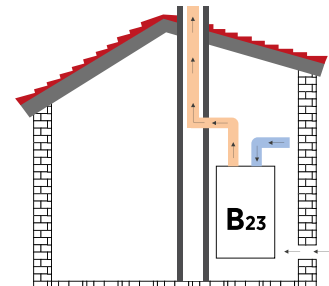
Exhaust gas discharge and fresh air intake with separate flue kits



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.

# Flue Accessories

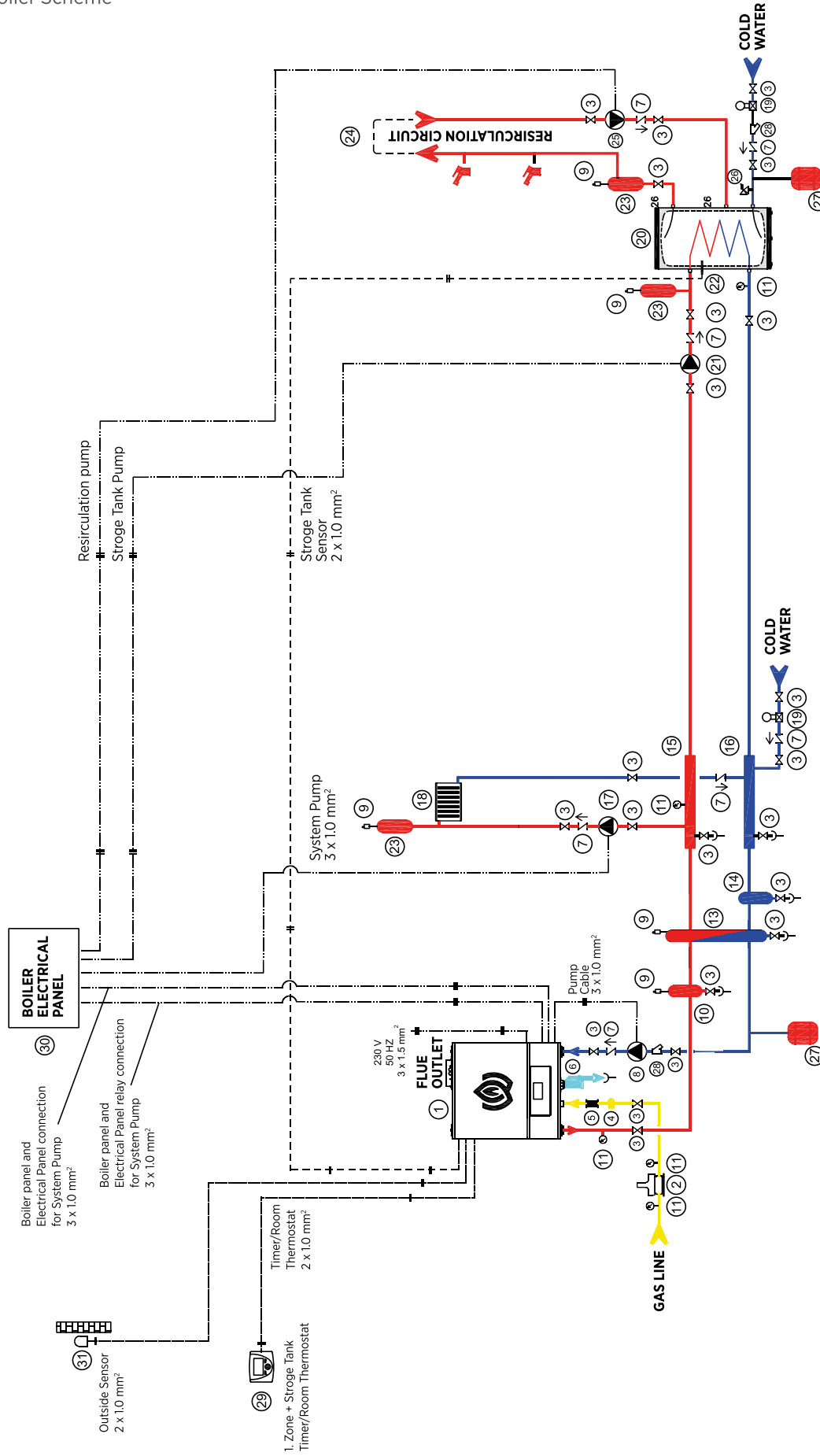
Flue Accessories can be installed each other by meshing method so any additional part is not required to connection.

Accessory Code	Accessory Name	Explanation	Matching Product
15311014000007	Ø 100/150 Horizontal Flue Set	Maximum Flue Distance $L_{max} = 18$ m (Viwa 90) $L_{max} = 17$ m (Viwa 115) $L_{max} = 17$ m (Viwa 125) $L_{max} = 10$ m (Viwa 150)	
15311660600042	Ø 100/150 Flue Extension L=500 mm	It can be used with Horizontal Flue Set and Vertical Funnel Set.	
15311660600043	Ø 100/150 Flue Extension L=1000 mm	It can be used with Horizontal Flue Set and Vertical Flue Set.	
15311660600040	BOB 100.100 Flue Check Valve	This is an accessory that must be installed at the outlet of each boiler when multiple boilers are used in the cascade system. The boiler connection and the collector connection are Ø100 mm.	
15311660600068	BOB 100.100 Flue Check Valve	When more than one boiler is used in cascade system, it is the accessory which must be install each boiler chimney outlet. The boiler connection and the collector connection are Ø100 mm.	
15311660600044	Ø 100/150 Bend (90°)	It can be used with Horizontal Flue Set and Vertical Flue Set. Each 90° bend usage requires 340 cm decreasing from maximum horizontal / vertical distance.	
15311660600138	Ø 100/150 Bend 45°	It can be used with Horizontal Flue Set and Vertical Flue Set. Each 45° bend usage requires 200 cm decreasing from maximum horizontal / vertical distance.	
15311660600041	Ø 100/150 Vertical Flue Set	Maximum Flue Distance $L_{max} = 20$ m (Viwa 90) $L_{max} = 20$ m (Viwa 115) $L_{max} = 19$ m (Viwa 125) $L_{max} = 11$ m (Viwa 150)	
15311660600124	Flat Roof Outlet Part	It is the apparatus that allows the Vertical Flue Set to pass through flat roofs in a sealed manner.	
15311660600125	Pitched Roof Outlet Tile	It is the apparatus that allows the Vertical Flue Set to pass through inclined roofs in a leak-proof manner.	

# Sample Installation Scheme

Single Boiler Scheme

## Radiator Circuit Viwa and A Hot Water Supply connection diagram with Viwa 90 / Viwa 150 boiler



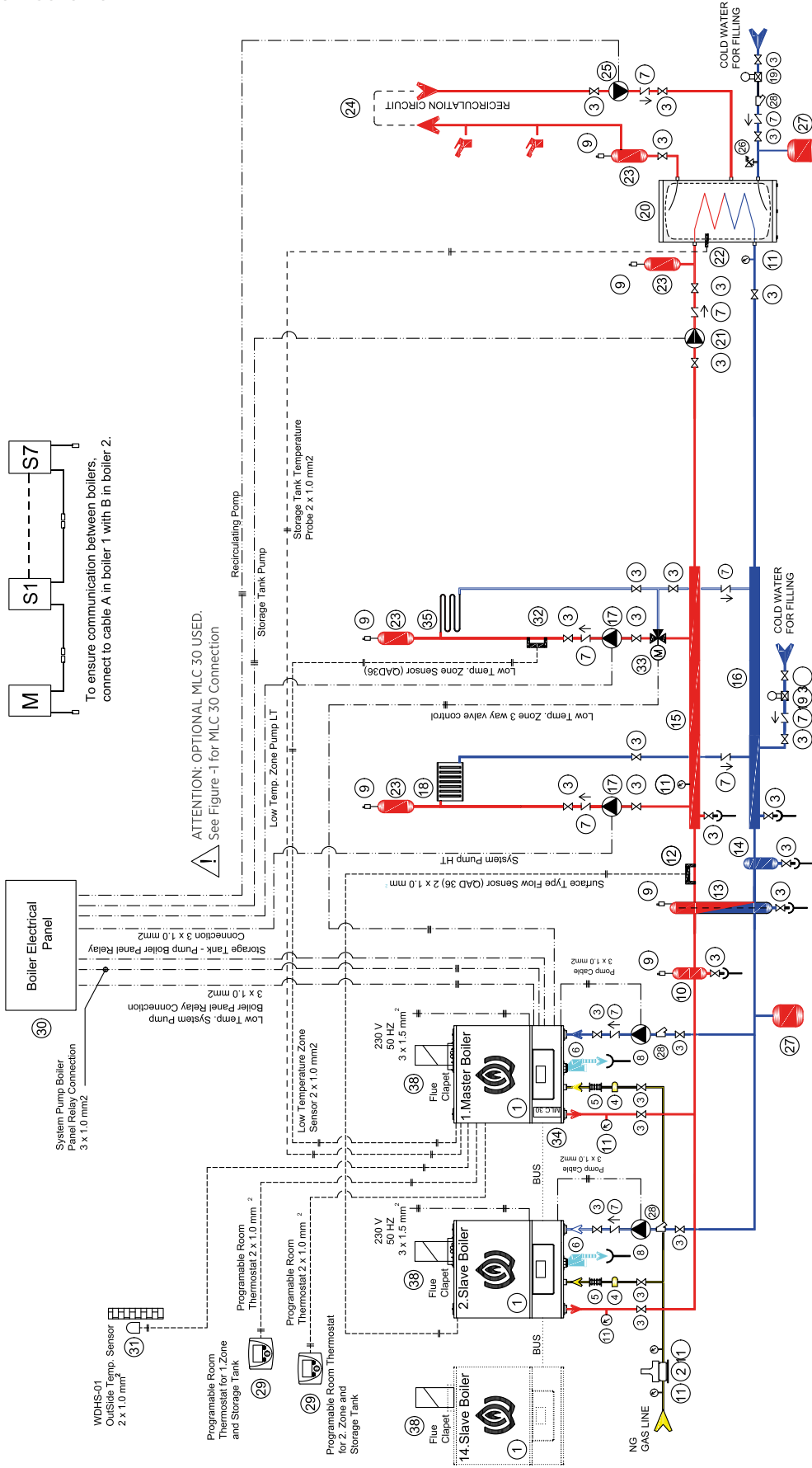
### INSTALLATION EQUIPMENT

- |  |   |   |
|--|---|---|
| 1. Boiler                              | 22. Hot Water Tank Sensor<br>(15311660600049) | 29. Timer/Room Thermostat<br>(15311660600045) |
| 2. Gas Safety Solenoid Valve           | 23. Air Separator                             | 30. Boiler Electrical Panel                   |
| 3. Ball Valve                          | 24. Hot Water Tank Recirculation Line         | 31. Outside Air Sensor<br>(15311660600001)    |
| 4. Gas Filter                          | 25. Recirculation Pump                        |   |
| 5. Vibration Isolator                  | 26. Safety Valve                              |   |
| 6. Condensate Siphon and Drainage Line | 27. Expansion Tank                            |   |
| 7. Check Valve                         | 28. Filter                                    |   |

# Sample Installation Scheme

Cascade System Scheme

## Viwa 90, 115, 125 and 150 Boilers and Cascade System and Multi-Zone System Connection Diagram



### INSTALLATION EQUIPMENT

- |  |   |  |  |  |
|--|---|--|--|--|
| 1. Boiler                              | 10. Sediment - Dirt - Air Separator                     | 18. Heating System                         | 26. Safety Valve   | (15311660600050)                                   |
| 2. Gas Safety Solenoid Valve           | 11. Manometer   | 19. Pressure Reducer                       | 27. Expansion Vessel   | 33. 3 Way Motorized Valve                          |
| 3. Ball Valve                          | 12. GAD 36 Strap-on Temperature Sensor (15311660600050) | 20. Hot Water Storage Tank                 | 28. Filter   | 34. MLC 30 (Optional Kit: 15311660600047)          |
| 4. Gas Filter                          | 13. Hydraulic Separator                                 | 21. Hot Water Storage Tank Pump            | 29. Timer / Room Thermostat (15311660600045)                   | 35. Low Temperature Zone                           |
| 5. Vibration Isolator                  | 14. Sediment - Dirt Separator                           | 22. Hot Water Tank Sensor (15311660600049) | 30. Boiler Electrical Panel                                    | 38. Flue Clapet (15311660600068 or 15311660600043) |
| 6. Condansate Siphon and Drainage Line | 15. Heating System Flow Water Collector                 | 23. Air Separator                          | 31. Outside Air Sensor (15311660600001)                        |  |
| 7. Check Valve                         | 16. Heating System Return Water Collector               | 24. Recirculation Line                     | 32. Low Temp. Zone Sensor (QAD 36 Strap-on Temperature Sensor) |  |
| 8. Boiler Return Pump                  | 17. Heating System Pump                                 | 25. Recirculation Pump                     |  |  |
| 9. Automatic Air Purge Valve           |   |  |  |  |

**ATTENTION:** If there is not any sensor sleeve in hydraulic separator at cascade system "QAD 36 Surface Type -System Ongoing Sensor" must be used.

# Technical Data

TECHNICAL DATA	Unit	Viwa 90			Viwa 115			Viwa 125			Viwa 150		
Gas Circuit / Gas Type		G20	G25	G31	G20	G25	G31	G20	G25	G31	G20	G25	G31
Gas supply pressure	mbar	20	25	37	20	25	37	20	25	37	20	25	37
Gas Consumption at Maximum	m <sup>3</sup> /h	9,30	11,00	3,49	11,55	13,41	4,54	12,74	14,90	4,90	15,27	17,71	5,84
Gas Consumption at Minimum	m <sup>3</sup> /h	1,54	1,74	0,55	1,79	2,06	0,71	2,01	2,32	0,79	2,42	2,87	0,97
Fuel Gross Calorific Values (GCV) at 15 °C and 1013.25 mbar [Natural Gas G20 (Hu=10,6972 kWh/m <sup>3</sup> ); Natural Gas G25 (Hu=9,2361 kWh/m <sup>3</sup> ); LPG G31 (Hu=27,175 kWh/m <sup>3</sup> )]													
Premix System		Pneumatic			Pneumatic			Pneumatic			Pneumatic		
Modulation Range		1/6			1/6			1/6			1/6		
Heat Exchanger Material		Al-Mg-Si			Al-Mg-Si			Al-Mg-Si			Al-Mg-Si		
Efficiency		G20	G25	G31	G20	G25	G31	G20	G25	G31	G20	G25	G31
(80/60 °C) Efficiency at Maximum Heat Output	%	97,7	97,7	97,7	97,5	97,5	97,5	97,8	97,8	97,8	97,6	97,6	97,6
(50/30 °C) Efficiency at Maximum Heat Output	%	103,6	103,2	103,6	102,7	102,7	102,7	103,6	103,6	103,6	103,0	103,0	103,0
Efficiency at 30% load at 36/30 °C	%	107,5	108,1	107,5	107,2	107,2	107,2	108,0	108,0	108,0	107,5	107,5	107,5
Seasonal space heating energy efficiency (expressed in terms of GCV)	%	92 (Class A)			92 (Class A)			92 (Class A)			92 (Class A)		
Radiator Circuit		G20	G25	G31	G20	G25	G31	G20	G25	G31	G20	G25	G31
Maximum heat input Qn	kW	90,0	90,0	90,0	115,0	115,0	115,0	125,0	125,0	125,0	150,0	150,0	150,0
Minimum heat input Qn	kW	14,5	14,5	14,5	17,5	17,5	17,5	20,0	20,0	20,0	24,0	24,0	24,0
Maximum Heat Output Pn (80/60 °C)	kW	87,9	87,9	87,9	112,0	112,0	112,0	122,2	122,2	122,2	146,3	146,3	146,3
Minimum Heat Output Pn (80/60 °C)	kW	13,2	14,0	13,2	15,4	15,4	15,4	17,8	17,8	17,8	21,6	21,6	21,6
Maximum Heat Output Pn (50/30 °C)	kW	93,2	92,8	93,2	118,0	118,0	118,0	129,0	129,0	129,0	154,5	154,5	154,5
Minimum Heat Output Pn (50/30 °C)	kW	16,1	15,6	16,1	19,0	19,0	19,0	20,8	20,8	20,8	25,1	25,1	25,1
Temperature selection range (min+max) HIGH / LOW temperature	°C	25 ÷ 80 / 25 ÷ 47											
Operating Pressure (Maximum)	bar	6			6			6			6		
Operating Pressure (Minimum)	bar	0,8			0,8			0,8			0,8		
Electricity Circuit		230 V +%10; -%15			230 V +%10; -%15			230 V +%10; -%15			230 V +%10; -%15		
Electricity Supply	V AC-50 Hz	230 V +%10; -%15			230 V +%10; -%15			230 V +%10; -%15			230 V +%10; -%15		
Electricity Consumption (Max./Min.)	Watt	29 / 120			30 / 128			29 / 169			30 / 265		
Protection Index	IP	IPX5D			IPX5D			IPX5D			IPX5D		
Exhaust Gas Circuit		G20	G25	G31	G20	G25	G31	G20	G25	G31	G20	G25	G31
(80/60 °C) Exhaust gas temperature (Min. / Max.)	°C	54/62	54/65	56/63	53/68	55/67	54/71	56/59	56/65	57/64	57/68	56/69	57/69
(50/30 °C) Exhaust gas temperature (Min. / Max.)	°C	30/46	30 / 49	31/46	31/50	31/54	32/52	30/47	30/47	30/45	30/48	31/49	31/48
NOx	Class	6			6			6			6		
Weighted value of NOx (GCV)	mg/kWh	18	43		28	49	54	25	43	48	29	46	52
Flue mass flow rate (60/80°C - Qn) Nominal/Minimum	g/s	39/6			48/7			53/8			64/8		
Fan head loss	Pa												
General		725 x 612 x 490			725 x 612 x 490			725 x 612 x 490			725 x 612 x 490		
Dimensions (H x W X D)		725 x 612 x 490			725 x 612 x 490			725 x 612 x 490			725 x 612 x 490		
Sound Level	dB (A )	62			62			63			63		
Net Weight	kg	70			70			82			82		
Packed Device Weight	kg	87			87			99			99		
Type		B <sub>25</sub> , B <sub>25P</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		I <sub>2H</sub> , I <sub>2E</sub> , I <sub>2E(S)</sub> , I <sub>2H</sub> , I <sub>2L</sub> , I <sub>2ELL</sub> , I <sub>3P</sub> , I <sub>2H3P</sub> , I <sub>2L3P</sub> , I <sub>2E+3P</sub>											

All information given in the brochure was obtained as a result of the tests. The data may be changed without prior notice.

# 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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