![warmhaus logo] **warmhaus**
Everybody **Deserves** a Warmhaus

Product Brochure

Wall-Hung Type
Premix & Gas Adaptive System
Condensing Boiler

Viwa 50
Viwa 65

About Warmhaus

Warmhaus is an affilate of Beyçelik Holding which produces boilers, high capacity wall hung consending boilers and steel panel radiators with more than 23 years experience in heating industry.

- **27.500 sqm** panel radiator production facility
- **8.000 sqm** boiler production facility
- Exports to more than **35 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**
- Among **ISO Second 500 Largest Corporations** List

With modernised production lines and high quality products; Warmhaus warms houses and buildings in more than 35 countries.

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

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

WARMHAUS PRODUCTS HEAT HOUSES AND BUILDINGS **IN MORE THAN 35 COUNTRIES.**

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
- Armenia
- Azerbaijan
- Belarus
- Belgium
- Bulgaria
- Canada
- Chile
- China
- Denmark
- England
- France
- Georgia
- Germany
- Hungary
- Iraq
- Ireland
- Italy
- Kosovo
- Macedonia
- Moldova
- Mongolia
- New Zealand
- Northern Cyprus
- Poland
- Portugal
- Romania
- Russia
- Scotland
- Serbia
- Spain
- Tunisia
- Ukraine
- Uzbekistan
- Wales

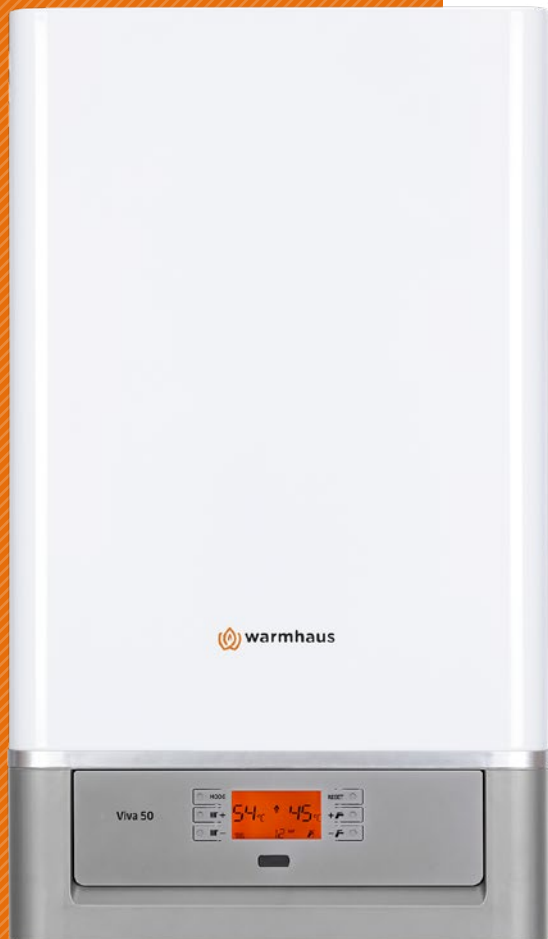THANKS TO THE **MODERN WAREHOUSE**, FAST DELİVERY WITH THE AUTOMATED SHELVING SYSTEM.

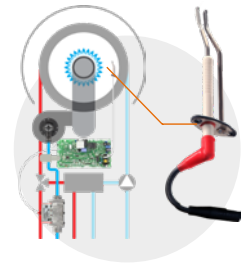WARMHAUS IS AMONGST THE **TOP 10** RADIATOR PRODUCERS IN THE WORLD, AND THE **TOP 4** IN TURKEY.

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 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 1:8 ratio.

Coordination with RVS Cascade Control Panel

With the Openterm communication protocol, it is also capable of communicating with the optional RVS cascade management and control unit.
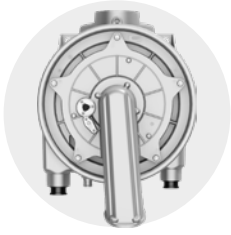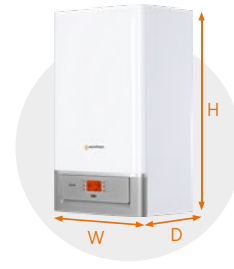
Stainless Steel Exchanger

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.
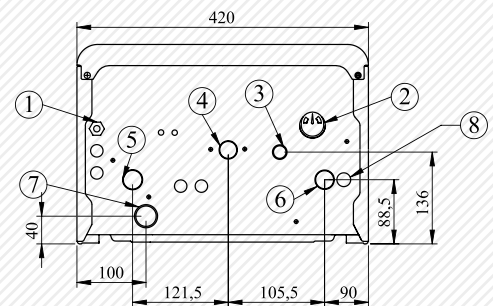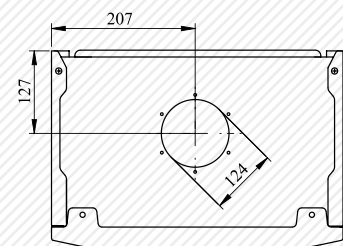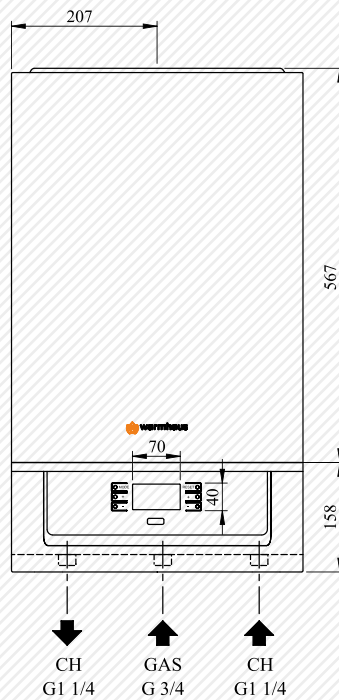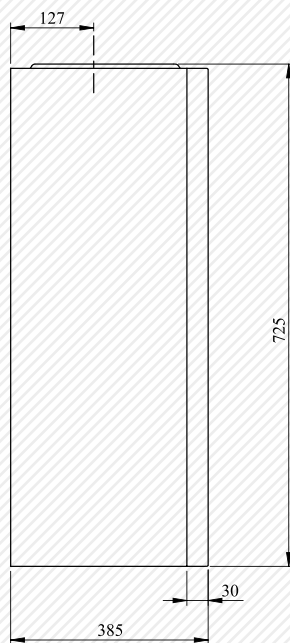
Hermetic Flue Connection

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. 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

725 mm

425 mm   385 mm

127

725

385

30

207

567

158

70

40

CH
G1 1/4

GAS
G 3/4

CH
G1 1/4

207

127

124

420

136

88.5

40

100   121,5   105,5   90

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

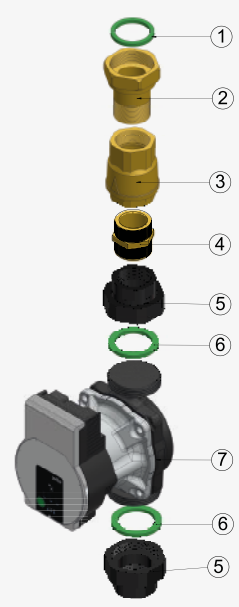Stainless Steel
Heat Exchanger

NTC Sensor

Gas/Air Manifold

Condensing Syphon

Automatic Air Vent

Venturi

Modulating Fan

4 Bar Safety Valve

Air & Dirt Separator

Gas Inlet

Water Pressure Sensor

Gas Valve

L Type Body
Construction
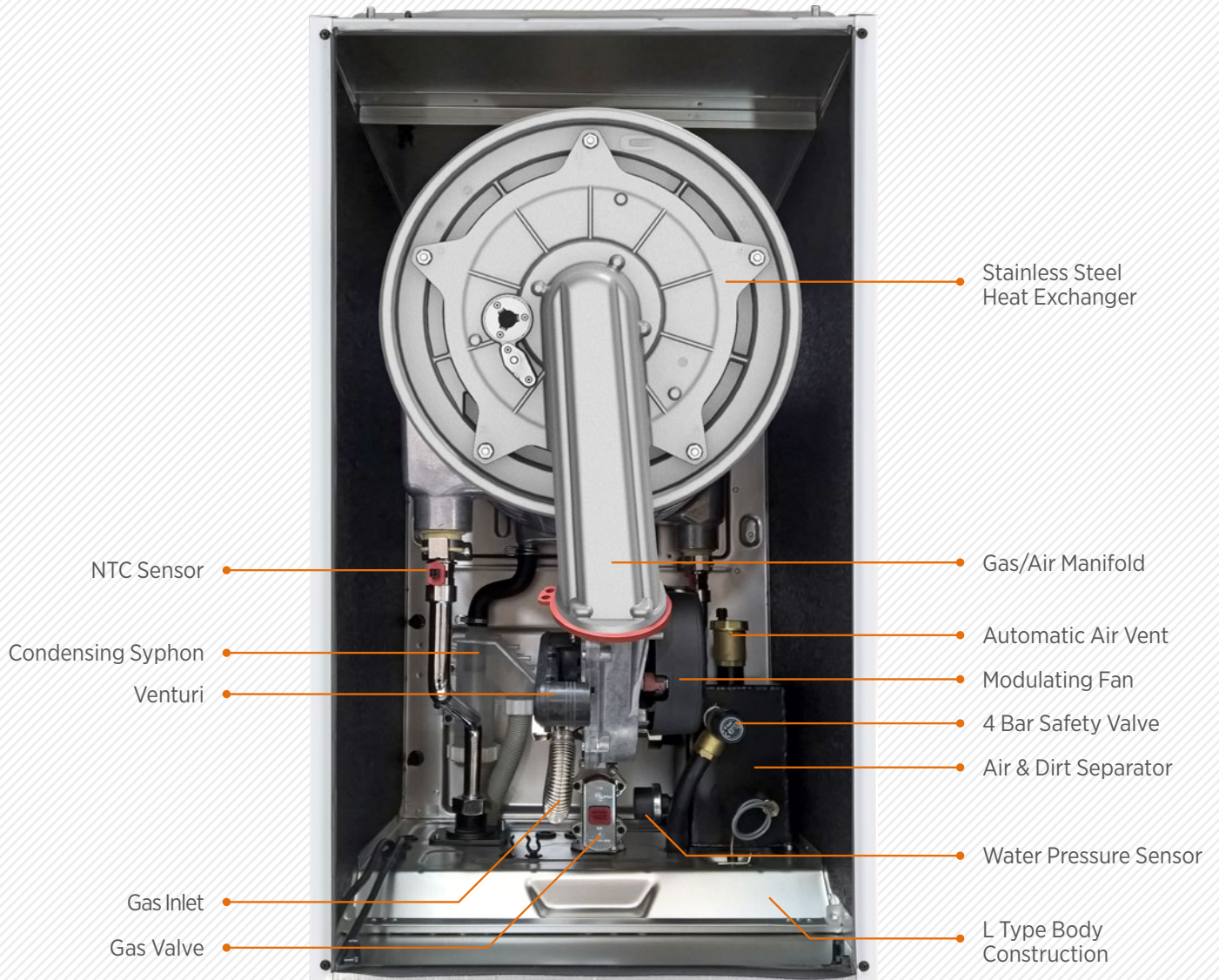
Optional Accessories

Viwa 50-65 System Accessories

Product Code	Product Name	Explanation	Product View
153.11.660.600020	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).	
153.11.660.600021	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).	
153.11.660.600022	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).	
153.11.660.600001	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 must be used with one Outside Sensor to save fuel.	
153.11.660.600045	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.	
153.11.660.600046	MLC 27 Cascade Module	Control unit ensures Viwa 50 and Viwa 65 boilers to work as cascade.	
153.11.660.600047	MLC 30 Multiple Zone Module	Control unit which controls Viwa 50 and Viwa 65 boilers low temperature/ Floor Heating Zone (mix fledged circuit)	
153.11.660.600049	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.	
153.11.660.600050	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.	
152.11.003.000004	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 " .	
153.11.660.600071	QAC 34 Outside Sensor	Mandatory if RVS unit is used. Regulates boiler according to outside temperature.	

See Technical Catalogue for more information.

Pump Set Accessories for Boilers

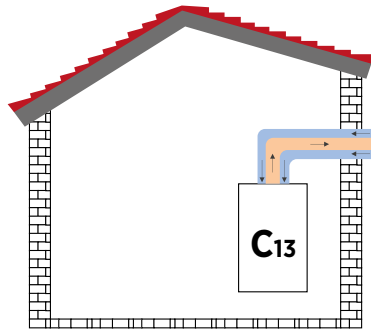Pump with high pressure and flow rate for Warmhaus Viwa wall hung boilers.

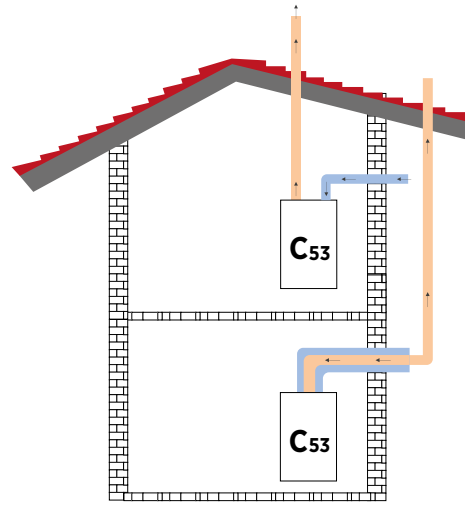| Product Code	Product Name	Explanation	Product View
152.11.003.000001	50-65 WW/Pump Set with Frequency Controlled	**Wilo-PARA 25/8** SC pump set with modulated pump connected with 2 connector, check valve and seal set. It is installed just below the boiler.	1. 1 1/4" Tesnit Seal 2. Pump Union 1 1/4"-1" 3. 1" Check Valve 4. 1" Nipple 5. Pump Union 1" 1 1/2" 6. 1 1/2" TESNIT® Seal 7. Pump

Concentric (Ø80/125) Flue Distances

(Ø80/125 mm) Lmax = 10 m

Vertical Funnel Distance

(Ø80/125 mm) Lmax = 11 m

Horizontal Funnel Distance
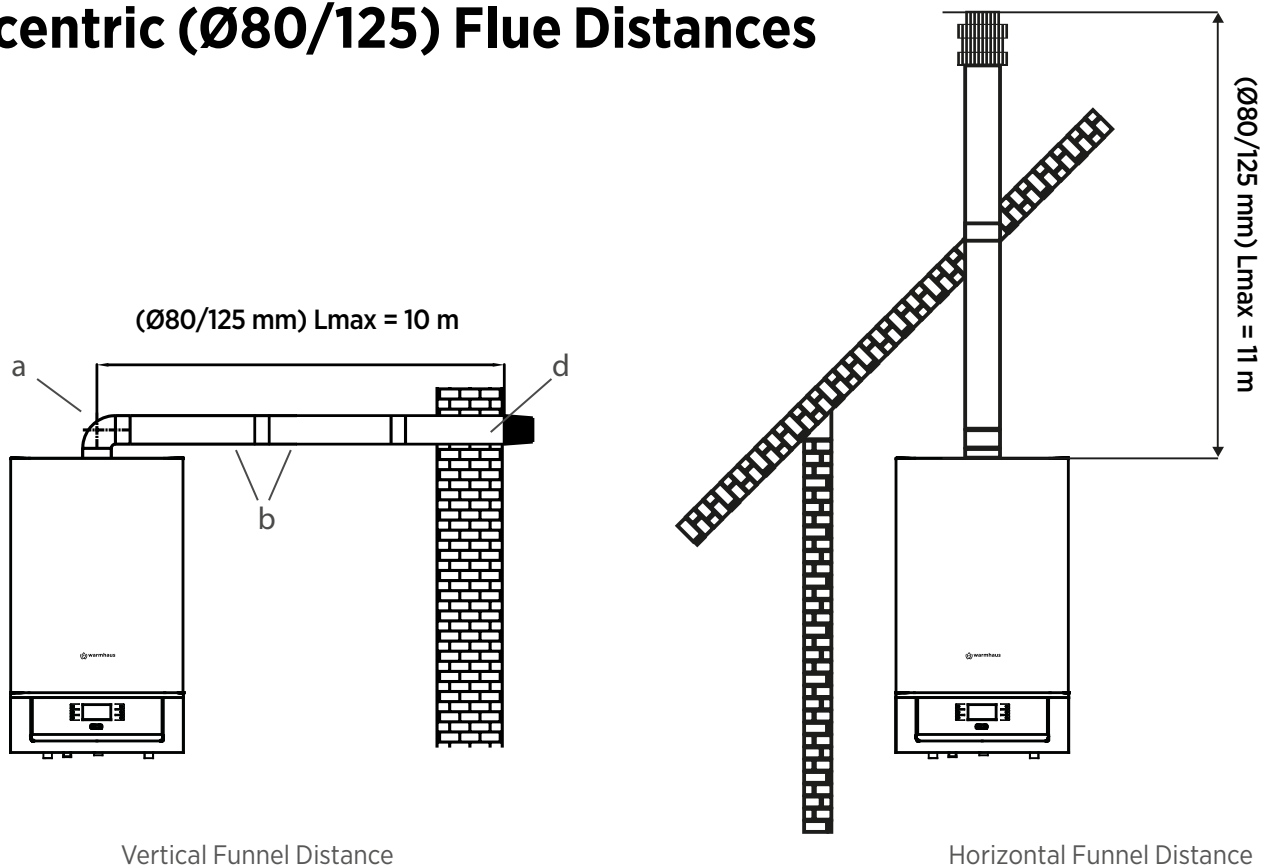
Flue Connection Types

→ Air
→ Exhaust gas

C13

Discharge with concentric
flue connection

C53
C53

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

C33
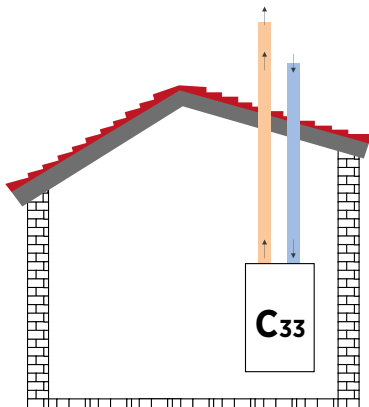
Exhaust gas discharge and fresh
air intake with separate flue kits

C83
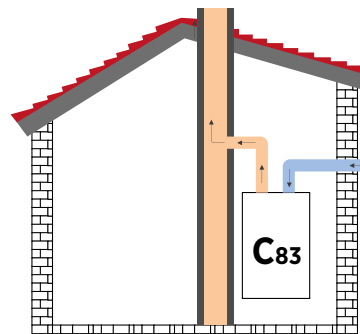
Discharge to building chimney
and fresh air intake with
separate flue connection
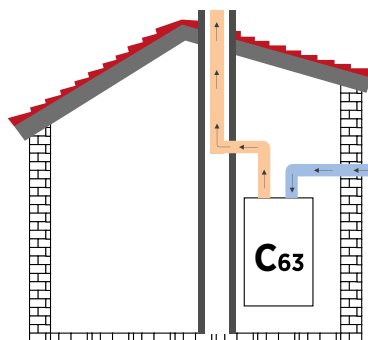
C63

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

B23

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

Optional Flue Accessories

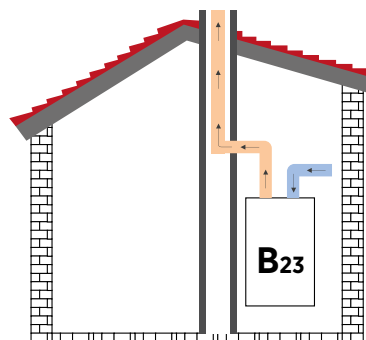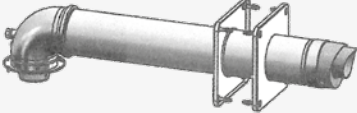**Concentric (Optional) Flue Accessories (Ø80/125 mm) for Viwa 50 & Viwa 65 Wall-Hung Type Premix Condensing Boilers**
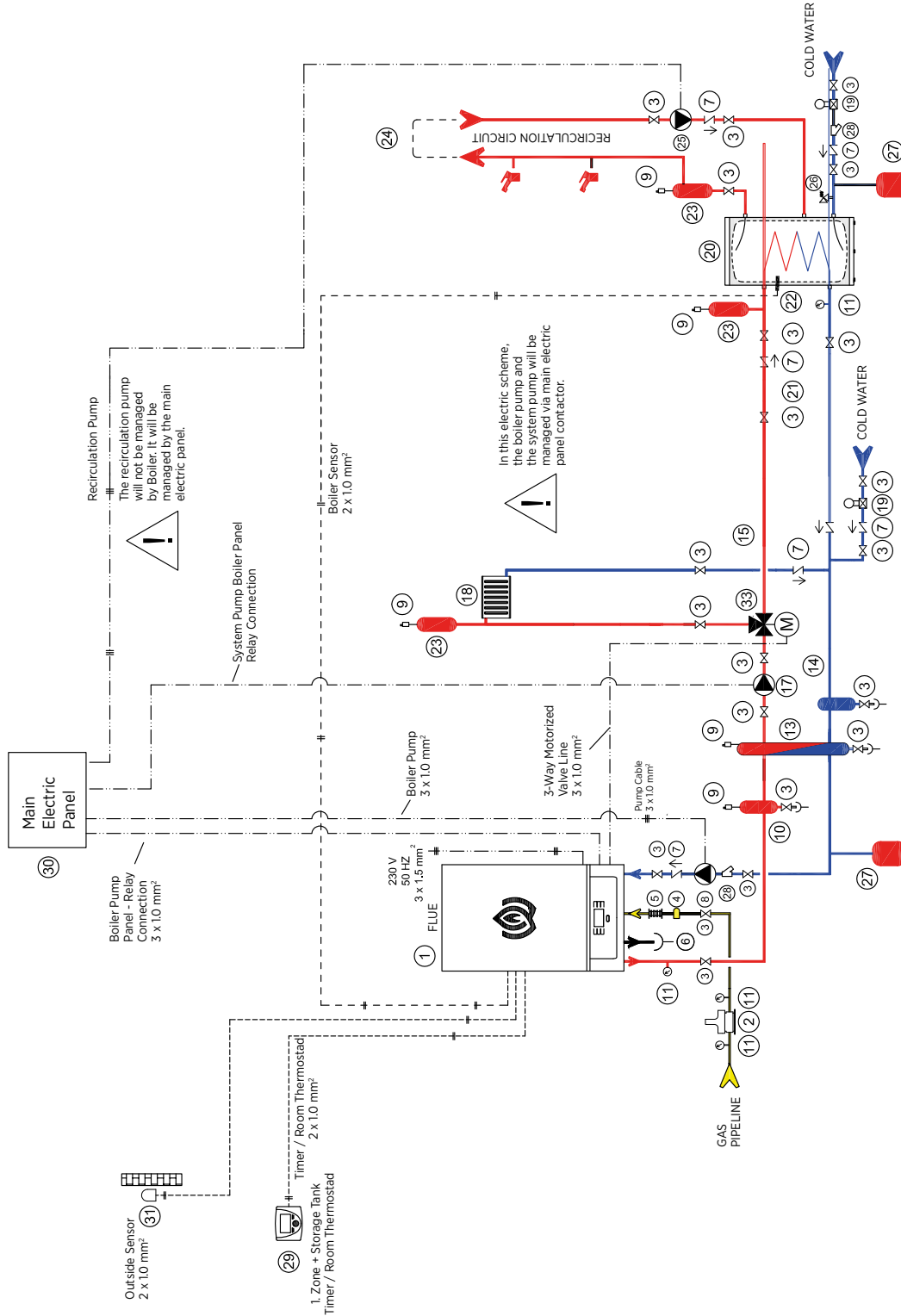
The flue accessories can be mounted with each other by a tight fit method and therefore no additional parts are required for connection.

Product Code	Product Name	Explanation	Product View
153.11.014.000006	Ø 80/125 Horizontal Flue Set This product is provided as a standard with Viwa 50 and Viwa 65 boilers.	Horizontal Flue Set can be used till 10 m with Streching Flue Accessroies .	
153.11.660.600025	Ø 80/125 Flue Extension L=500 mm	It can be used with Horizontal Flue Set and Vertical Set.	
153.11.660.600026	Ø 80/125 Flue Extension L=1000 mm	It can be used with Horizontal Flue Set and Vertical Set.	
153.11.660.600027	Ø 80/125 Extension Flue L=1500 mm	It can be used with Horizontal Flue Set and Vertical Set.	
153.11.660.600028	Ø 80/125 Extension Flue L=2000 mm	It can be used with Horizontal Flue Set and Vertical Set.	
153.11.660.600029	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.	
153.11.660.600030	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.	
153.11.660.600037	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.	
153.11.660.600038	Ø80/125 Vertical Flue Adapter	It is the accessory which must be installed to boiler flue output if Vertical Flue Set is used.	
153.11.660.600039	BAL 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.	
153.11.660.600067	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.	

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
2. Gas Safety Solenoid Valve
3. Ball Valve
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
25. Recirculation Circuit
26. Recirculation Pump
27. afety Valve Extension Tank
28. Filter
29. Timer / Room Thermostat
30. Main Electric Panel
31. Outside Sensor
27. Extension Tank

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
2. Gas Safety Solenoid Valve
3. Ball Valve
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 Extension Tank
27. Extension Tank
28. Filter
29. Timer / Room Thermostat
30. Main Electric Panel
31. QAC 34 Outside Sensor
37. MLC 27 Cascade Module

13

Technical Data

Technical Table	Unit	Viwa 50	Viwa 65
CE Certificate		CE-1015CT 0659	CE-1015CT 0660
Gas Circuit			
Gas type		G20	
Gas Supply Pressure	mbar	20	
Maximum Gas Consumption	m³/h	4,809	6,506
Minimum Gas Consumption	m³/h	0,619	0,825
Premix System		Gas Adaptive (*)	
Modulation Rate		1:8	
Exchanger Material		Stainless steel	
Efficiency		**G20**	**G20**
Efficiency at (80/60 °C) Maximum Heat Output	%	97,6	97,3
Efficiency at (50/30 °C) Maximum Heat Output	%	105,3	104,9
Efficiency at (36/30 °C) 30% Load	%	107,8	108,0
Seasonal Heating Energy Efficiency	%	92 (Class A)	
Radiator Circuit		**G20**	**G20**
Maximum Heat Input (Qn)	kW	50	65
Minimum Heat Input (Qn)	kW	6,5	8
Maximum Heat Output (Pn) (80/60 °C)	kW	46	58
Minimum Heat Output (Pn) (80/60 °C)	kW	5,7	7,3
Maximum Heat Output (Pn) (50/30 °C)	kW	51,2	65
Minimum Heat Output (Pn) (50/30 °C)	kW	6,5	8,5
(High) Temperature Setting Range for Radiator Circuit (min÷max)	°C	25÷80	
(High) Temperature Setting Range for Underfloor Heating Circuit (min÷max)	°C	25÷47	
Operating Pressure (Maximum)	bar	4	
Operating Pressure (Minimum)	bar	0,5	
Temperature Setting Range			
Temperature Setting Range	°C	35 - 60	
Electrical Circuit			
Power Supply	Watt	4	
Power Consumption (Maximum/Minimum)	V AC–50 Hz	230 V +%10; -%15	
Protection Index	Watt	92 / 11	100 / 12
Power Consumption (Stand-By Mode PSB)	IP	IPX5D	
Exhaust Gas Circuit		**G20**	**G20**
Exhaust Gas Temperature (Qn)	°C		
(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
NOx	Class	6	
NOx Weight Values (GCV)	mg/kWh	40	
Exhaust Gas Flow Rate (60/80°C - Qn) Nominal/Minimum	g/s	22,25 / 2,83	28,50 / 3,50
General			
Dimensions (H X W X D)	mm	725 x 425 x 385	
Noise Level (± 1.5 dBA)	dB (A)	61	58
Net Weight	kg	40	46
Packaged Weight	kg	42	48
Type		B 23, C 13, C 33, C 53, C 63, C 83	
Category		I2H (G20=20 mbar)	

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.

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

warmhaus

Everybody Deserves a Warmhaus

Management Office

Nidakule Ataşehir Kuzey
Barbaros Mah. Begonya Sok.
No: 3 K: 19 D: 170-175
34746, Ataşehir / İstanbul / Turkey

T +90 216 300 16 50

—

Boiler Factory

Işıktepe OSB Mah.
Park Cad. No: 10
16140, Nilüfer / Bursa / Turkey

—

Radiator Factory

Minareliçavuş OSB Mah.
Selvi Cad. No: 3
16140, Nilüfer / Bursa / Turkey

T +90 224 295 94 00
F +90 224 411 23 77

—

United Kingdom (Subsidiary)

Unit 7, St Martins Business Centre
St Martins Way, Bedford MK42 0LF, England

T +44 207 164 6233
F +44 207 000 1336

info@**warmhaus**.com.tr | **warmhaus**.com