VIESMANN

VITODENS 100-W

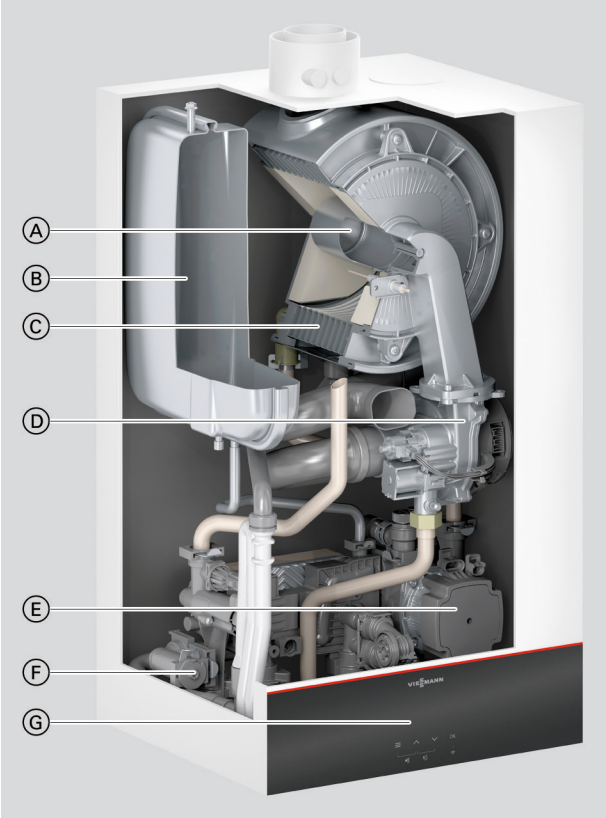
Datasheet

For part no. and prices: see pricelist

VITODENS 100-W Type B1HF, B1KF

Wall mounted gas condensing boiler
3.2 to 32.0 kW
For natural gas and LPG

Benefits



Ⓐ Modulating MatriX-Plus gas burner with intelligent Lambda Pro combustion controller for extremely clean combustion and quiet operation
Ⓑ Integral diaphragm expansion vessel
Ⓒ Inox-Radial heat exchanger made from stainless steel – for high operational reliability, a long service life and high heating output on a very small footprint
Ⓓ Variable speed combustion air fan for quiet and economical operation
Ⓔ Integral variable speed high efficiency circulation pump
Ⓕ Hydraulics
Ⓖ Digital boiler control unit with LED display and touch buttons

The top model among the wall mounted gas condensing boilers is the Vitodens 100-W. The MatriX-Plus gas burner and Inox-Radial heat exchanger made of stainless steel are a combination that guarantees high efficiency and a high level of heating convenience over the long term.
All sizes of the Vitodens 100-W are equipped with the automatic Lambda Pro combustion controller. Modulation range down to 1:10 (32 kW).
The integral, variable speed high efficiency circulation pump reduces power consumption by up to 70 %.

Recommended applications
- Modernisation and new build
- Replacement of old appliances in apartment buildings or prefabricated houses

Benefits at a glance
- Seasonal central heating energy efficiency η_S up to 94 % (label A).
- Low cycle frequency, even with low heat demand, through optimised pauses and wide modulation range down to 1:10 (32 kW)
- Durable and efficient thanks to Inox-Radial stainless steel heat exchanger
- MatriX-Plus gas burner with Lambda Pro combustion controller for permanently high efficiency and clean combustion.
- Power saving, high efficiency circulation pump
- Easy operation using control unit with touchscreen
- Web-enabled through integral WiFi interface for operation and service via Viessmann apps
- Local access for service and commissioning via Viessmann apps (without active internet connection)

Delivered condition
Wall mounted gas condensing boiler with Inox-Radial heat exchanger, modulating MatriX-Plus gas burner for natural gas and LPG to DVGW Code of Practice G260 [Germany], hydraulics and variable speed high efficiency circulation pump.
Weather-compensated or constant temperature control unit with integral WiFi interface.
Fully plumbed and wired. Colour of the epoxy-coated casing: Vitopearlwhite.
Integral diaphragm expansion vessel (8 litre capacity).
Preset for operation with natural gas. Conversion within gas groups E/LL is not required. The conversion to LPG is made at the control unit (a conversion kit is not required).
The gas condensing boiler is suitable for operation with a hydrogen admixture of up to 20 % by volume.

Note for multiple connection (vertical) and cascades (horizontal)
If multiple appliances are to be connected to a common flue system, the **multiple connection** version of the appliance will be required. Using appliances for single connection, or operating a mix of appliances for single and multiple connection, on a common flue system is **not permitted**.
The multiple connection version is already fitted with an internal back draught safety device. When installing with multiple connections, it is **essential** to add an additional back draught safety device for the boiler flue connection to the order for each appliance. The multiple connection version cannot be operated with LPG.

Accessories required (order separately)

Vitodens installation directly on a wall

Pre-plumbing jig for surface mounting:
- With fixings
- With valves/fittings
- With boiler drain & fill valve
- With gas shut-off valve with thermally activated safety shut-off valve

Valves/fittings for surface mounting:
- With valves/fittings
- With boiler drain & fill valve
- With gas shut-off valve with thermally activated safety shut-off valve

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Benefits (cont.)

Valves/fittings for flush mounting:
- With valves/fittings
- With boiler drain & fill valve
- With gas shut-off valve with thermally activated safety shut-off valve

Mounting frame for surface mounting (installed depth 90 mm):
- With fixings
- With valves/fittings
- With boiler drain & fill valve
- With angle gas valve with thermally activated safety shut-off valve

Vitodens installation in front of a wall

Plumbing wall mounting frame (installed depth 110 mm):
- With fixings

A pre-plumbing jig or valves/fittings for surface mounting/flush mounting must be ordered separately for the plumbing wall mounting frame.

Tested quality

CE designation according to current EU Directives

Meets the requirements for the "Blue Angel" ecolabel to RAL UZ 61.

Specification

Gas condensing system boiler

Use with single connection

Gas boiler, type B and C, category II_{2N3P}					
Type		**B1HF**			
Rated heating output range (details to EN 15502)					
T_F/T_R = 50/30 °C					
Natural gas	**kW**	**3.2 to 11.0**	**3.2 to 19.0**	**3.2 to 25.0**	**3.2 to 32.0**
LPG	**kW**	**3.2 to 11.0**	**3.2 to 19.0**	**3.2 to 25.0**	**3.2 to 32.0**
T_F/T_R = 80/60 °C					
Natural gas	**kW**	**2.9 to 10.1**	**2.9 to 17.5**	**2.9 to 23.0**	**2.9 to 29.3**
LPG	**kW**	**2.9 to 10.1**	**2.9 to 17.5**	**2.9 to 23.0**	**2.9 to 29.3**
Rated heating output for DHW heating					
Natural gas	kW	2.9 to 17.5	2.9 to 17.5	2.9 to 23.0	2.9 to 29.3
LPG	kW	2.9 to 17.5	2.9 to 17.5	2.9 to 23.0	2.9 to 29.3
Rated heat input (Qn)					
Natural gas	kW	3.0 to 10.3	3.0 to 17.8	3.0 to 23.4	3.0 to 29.9
LPG	kW	3.0 to 10.3	3.0 to 17.8	3.0 to 23.4	3.0 to 29.9
Rated heat input for DHW heating (Qnw)					
Natural gas	kW	3.0 to 17.8	3.0 to 17.8	3.0 to 23.4	3.0 to 29.9
LPG	kW	3.0 to 17.8	3.0 to 17.8	3.0 to 23.4	3.0 to 29.9
Product ID		CE-0085DL0217			
IP rating to EN 60529		IP X4 to EN 60529			
NO_x		6	6	6	6
Gas supply pressure					
Natural gas	mbar	20	20	20	20
	kPa	2	2	2	2
LPG	mbar	50	50	50	50
	kPa	5	5	5	5
Max. permiss. gas supply pressure[*1]					
Natural gas	mbar	13 to 25.0	13 to 25.0	13 to 25.0	13 to 25.0
	kPa	1.3 to 2.5	1.3 to 2.5	1.3 to 2.5	1.3 to 2.5
LPG	mbar	25 to 57.5	25 to 57.5	25 to 57.5	25 to 57.5
	kPa	2.5 to 5.75	2.5 to 5.75	2.5 to 5.75	2.5 to 5.75
Sound power level (according to EN ISO 15036-1)					
– At partial load	dB(A)	31.9	31.9	31.9	31.9
– At rated heating output (DHW heating)	dB(A)	42.3	42.3	46.1	48.4
Power consumption (in the delivered condition)	W	40	48	67	113
Rated voltage	V	230			
Rated frequency	Hz	50			
Appliance fuse protection	A	4.0			
Backup fuse (power supply)	A	16			
Communication module (integral)					
WiFi frequency band	MHz	2400 to 2483.5			
Max. transmission power	dBm	20			
Low power radio frequency band	MHz	2400 to 2483.5			
Max. transmission power	dBm	10			
Supply voltage	V ⎓	24			
Power consumption	W	4			
Electronic temperature limiter setting (TN)	°C	91			
Electronic temperature cut-out setting	°C	110			
Electronic flue gas temperature limiter setting	°C	110			
Permissible ambient temperature					
– During operation		Frost-free, dry and heated rooms			
– During storage and transport	°C	–5 to +60			
Weight					
– Excl. heating water and packaging	kg	32	32	32	32
– Incl. heating water	kg	37.6	37.6	37.6	37.6
Water capacity (excl. diaphragm expansion vessel)	l	3.0	3.0	3.0	3.0
Max. flow temperature	°C	82	82	82	82

*[*1] If the gas supply pressure is higher than the maximum permissible value, install a separate gas pressure governor upstream of the system.*

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Specification (cont.)

Use with single connection

Gas boiler, type B and C, category II_{2N3P}					
Type		**B1HF**			
Rated heating output range (details to EN 15502)					
T_F/T_R = 50/30 °C					
Natural gas	**kW**	**3.2 to 11.0**	**3.2 to 19.0**	**3.2 to 25.0**	**3.2 to 32.0**
LPG	**kW**	**3.2 to 11.0**	**3.2 to 19.0**	**3.2 to 25.0**	**3.2 to 32.0**
T_F/T_R = 80/60 °C					
Natural gas	**kW**	**2.9 to 10.1**	**2.9 to 17.5**	**2.9 to 23.0**	**2.9 to 29.3**
LPG	**kW**	**2.9 to 10.1**	**2.9 to 17.5**	**2.9 to 23.0**	**2.9 to 29.3**
Max. flow rate (Limit for the use of hydraulic separation)	l/h	See residual head graph			
Nominal circulating water volume At T_F/T_R = 80/60 °C	l/h	434	752	988	1259
Diaphragm expansion vessel					
Capacity	l	8	8	8	8
Pre-charge pressure	bar	0.75	0.75	0.75	0.75
	kPa	75	75	75	75
Permiss. operating pressure	bar	3	3	3	3
	MPa	0.3	0.3	0.3	0.3
Connections (with connection accessories)					
Boiler flow and return	R	¾	¾	¾	¾
Cold water and DHW	G	½	½	½	½
Dimensions					
Length	mm	360	360	360	360
Width	mm	400	400	400	400
Height	mm	700	700	700	700
Gas connection	R	¾	¾	¾	¾
Supply values Relative to the max. load and 1013 mbar/15 °C With gas					
Natural gas E	m^3/h	1.88	1.88	2.48	3.16
Natural gas LL	m^3/h	2.19	2.19	2.88	3.68
LPG	kg/h	1.38	1.38	1.82	2.32
Flue gas parameters					
Temperature (at a return temperature of 30 °C)					
– At rated heating output	°C	39	41	46	59
– At partial load	°C	38	38	38	38
Temperature (at a return temperature of 60 °C, for DHW heating)	°C	64	65	67	72
Flue gas superheating temperature	°C	120	120	120	120
Mass flow rate (for DHW heating) Natural gas					
– At maximum heating output	kg/h	31.7	31.7	41.6	54.9
– At partial load	kg/h	5.6	5.6	5.6	5.6
LPG					
– At maximum heating output	kg/h	30.1	30.1	41.0	53.9
– At partial load	kg/h	5.1	5.1	5.1	5.1
Available draught	Pa	116	116	168	323
	mbar	1.16	1.16	1.68	3.23
Available draught For type B_{23P}	Pa	232	527	698	635
Max. amount of condensate to DWA-A 251	l/h	2.5	2.5	3.3	4.2
Condensate connection (hose nozzle)	Ø mm	20 to 24	20 to 24	20 to 24	20 to 24
Flue gas connection	Ø mm	60	60	60	60
Ventilation air connection	Ø mm	100	100	100	100
Standard seasonal efficiency [to DIN] at T_F/T_R = 40/30 °C	%	Up to 98 (H_s) [gross cv]			
Energy efficiency class		A	A	A	A
Seasonal central heating energy efficiency η_S	%	93	93	94	94

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Specification (cont.)

Note

With appliances for use in multiple connection (vertical) and cascades (horizontal), the specifications in the table "Use with single connection" apply, with the exception of the following specifications; see table "Use with multiple connection":

Use with multiple connection

Gas boiler, type B and C, category II_{2N3P}					
Type		**B1HF-M**			
Rated heating output range (to EN 15502)					
T_F/T_R = 50/30 °C					
Natural gas	**kW**	**5.7 to 11.0**	**5.7 to 19.0**	**5.7 to 25.0**	**5.7 to 32.0**
T_F/T_R = 80/60 °C					
Natural gas	**kW**	**5.2 to 10.1**	**5.2 to 17.5**	**5.2 to 23.0**	**5.2 to 29.3**
Rated heating output for DHW heating					
Natural gas	kW	5.2 to 17.5	5.2 to 17.5	5.2 to 23.0	5.2 to 29.3
Rated heat input (Qn)					
Natural gas	kW	5.3 to 10.3	5.3 to 17.8	5.3 to 23.4	5.3 to 29.9
Rated heat input for DHW heating (Qnw)					
Natural gas	kW	5.3 to 17.8	5.3 to 17.8	5.3 to 23.4	5.3 to 29.9
Mass flow rate (for DHW heating)					
Natural gas					
– At maximum heating output	kg/h	31.7	31.7	41.6	54.9
– At partial load	kg/h	9.8	9.8	9.8	9.8
Available draught for type $C_{(10)}$ (at header system interface)	Pa	25	25	25	25
Maximum permissible pressure differential between flue gas outlet and air inlet for $C_{(10)}$	Pa	–200	–200	–200	–200

Note

The supply values are only for reference (e.g. in the gas contract application) or for a supplementary, rough estimate to check the volumetric settings. Due to factory settings, the gas pressure must not be altered from these values. Reference: 15 °C, 1013 mbar (101.3 kPa).

Gas condensing combi boiler

Use with single connection

Gas boiler, type B and C, category II_{2N3P}				
Type		**B1KF-26**	**B1KF-30**	**B1KF-35**
Rated heating output range (details to EN 15502)				
T_F/T_R = 50/30 °C				
Natural gas	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
LPG	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
T_F/T_R = 80/60 °C				
Natural gas	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
LPG	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
Rated heating output for DHW heating				
Natural gas	kW	2.9 to 26	2.9 to 30	2.9 to 35
LPG	kW	2.9 to 26	2.9 to 30	2.9 to 35
Rated heat input (Qn)				
Natural gas	kW	3.0 to 23.4	3.0 to 23.4	3.0 to 29.9
LPG	kW	3.0 to 23.4	3.0 to 23.4	3.0 to 29.9
Rated heat input for DHW heating (Qnw)				
Natural gas	kW	3.0 to 26.5	3.0 to 30.6	3.0 to 35.3
LPG	kW	3.0 to 26.5	3.0 to 30.6	3.0 to 35.3
Product ID		CE-0085DL0217		
IP rating to EN 60529		IPX4 to EN 60529		
Gas supply pressure				
Natural gas	mbar	20	20	20
	kPa	2	2	2
LPG	mbar	50	50	50
	kPa	5	5	5

Specification (cont.)

Use with single connection

Gas boiler, type B and C, category II_{2N3P}				
Type		**B1KF-26**	**B1KF-30**	**B1KF-35**
Rated heating output range (details to EN 15502)				
T_F/T_R = 50/30 °C				
Natural gas	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
LPG	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
T_F/T_R = 80/60 °C				
Natural gas	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
LPG	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
Max. permiss. gas supply pressure[*2]				
Natural gas	mbar	25.0	25.0	25.0
	kPa	2.5	2.5	2.5
LPG	mbar	57.5	57.5	57.5
	kPa	5.75	5.75	5.75
Sound power level (according to EN ISO 15036-1)				
– At partial load	dB(A)	31.9	31.9	31.9
– At rated heating output (DHW heating)	dB(A)	49.1	50	50.4
Power consumption (in the delivered condition)	W	45	64	110
Rated voltage	V	230		
Rated frequency	Hz	50		
Appliance fuse protection	A	4		
Backup fuse (power supply)	A	16		
Communication module (integral)				
WiFi frequency band	MHz	2400 to 2483.5		
Max. transmission power	dBm	20		
Low power radio frequency band	MHz	2400 to 2483.5		
Max. transmission power	dBm	10		
Supply voltage	V ⎓	24		
Power consumption	W	4		
Electronic temperature limiter setting (TN)	°C	91		
Electronic temperature cut-out setting	°C	110		
Electronic flue gas temperature limiter setting	°C	110		
Permissible ambient temperature				
– During operation		Frost-free, dry and heated rooms		
– During storage and transport	°C	–5 to +60		
Weight				
– Excl. heating water and packaging	kg	35	35	35
– Incl. heating water	kg	41	41	41
Water capacity (excl. diaphragm expansion vessel)	l	3.0	3.0	3.0
Max. flow temperature	°C	82	82	82
Max. flow rate (Limit for the use of hydraulic separation)	l/h	See residual head graphs		
Nominal circulating water volume At T_F/T_R = 80/60 °C	l/h	752	988	1259
Diaphragm expansion vessel				
Capacity	l	8	8	8
Pre-charge pressure	bar	0.75	0.75	0.75
	kPa	75	75	75
Permiss. operating pressure	bar	3	3	3
	MPa	0.3	0.3	0.3
Connections (with connection accessories)				
Boiler flow and return	R	¾	¾	¾
Cold water and DHW	G	½	½	½
Dimensions				
Length	mm	360	360	360
Width	mm	400	400	400
Height	mm	700	700	700
Gas connection	R	¾	¾	¾

[*2] *If the gas supply pressure is higher than the maximum permissible value, install a separate gas pressure governor upstream of the system.*

Specification (cont.)

Use with single connection

Gas boiler, type B and C, category II_{2N3P}				
Type		**B1KF-26**	**B1KF-30**	**B1KF-35**
Rated heating output range (details to EN 15502)				
T_F/T_R = 50/30 °C				
Natural gas	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
LPG	**kW**	**3.2 to 25.0**	**3.2 to 25.0**	**3.2 to 32.0**
T_F/T_R = 80/60 °C				
Natural gas	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
LPG	**kW**	**2.9 to 23.0**	**2.9 to 23.0**	**2.9 to 29.3**
Standby instantaneous water heater				
DHW and cold water connections	G	½	½	½
Permiss. operating pressure (DHW side)	bar	10	10	10
	MPa	1	1	1
Minimum pressure, cold water connection	bar	1.0	1.0	1.0
	MPa	0.1	0.1	0.1
Outlet temperature, adjustable	°C	30 to 60	30 to 60	30 to 60
Continuous DHW output	kW	26.3	30.0	34.4
Spec. water flow rate (D)	l/min	13.26	15.59	17.04
At ΔT = 30 K (to EN 13203-1)				
Supply values				
Relative to the max. load and 1013 mbar/15 °C				
Natural gas E	m^3/h	2.89	3.35	3.69
Natural gas LL	m^3/h	3.36	3.90	4.29
LPG	kg/h	2.12	2.46	2.71
Flue gas parameters				
Temperature (at a return temperature of 30 °C)				
– At rated heating output	°C	41	46	59
– At partial load	°C	38	38	38
Temperature (at a return temperature of 60 °C, for DHW heating)	°C	65	67	72
Flue gas superheating temperature	°C	120	120	120
Mass flow rate (for DHW heating)				
Natural gas				
– At maximum heating output	kg/h	49.3	57.3	62.1
– At partial load	kg/h	5.6	5.6	5.6
LPG				
– At maximum heating output	kg/h	30.1	41	53.9
– At partial load	kg/h	3.9	3.9	3.9
Available draught	Pa	334	340	474
	mbar	3.34	3.40	4.74
Available draught	Pa	527	698	635
For type B_{23P}				
Max. amount of condensate to DWA-A 251	l/h	3.7	4.3	4.9
Condensate connection (hose nozzle)	Ø mm	20 to 24	20 to 24	20 to 24
Flue gas connection	Ø mm	60	60	60
Ventilation air connection	Ø mm	100	100	100
Standard seasonal efficiency [to DIN] at				
T_F/T_R = 40/30 °C	%	Up to 98 (H_s) [gross cv]		
Energy efficiency class		A	A	A
Seasonal central heating energy efficiency η_S	%	93	94	94

Note

With appliances for use in multiple connection (vertical) and cascades (horizontal), the specifications in the table "Use with single connection" apply, with the exception of the following specifications; see table "Use with multiple connection":

Specification (cont.)

Use with multiple connection

Gas boiler, type B and C, category II_{2N3P}				
Type		**B1KF-26-M**	**B1KF-30-M**	**B1KF-35-M**
Rated heating output range (to EN 15502)				
T_F/T_R = 50/30 °C				
Natural gas	**kW**	**5.7 to 25.0**	**5.7 to 25.0**	**5.7 to 32.0**
T_F/T_R = 80/60 °C				
Natural gas	**kW**	**5.2 to 23.0**	**5.2 to 23.0**	**5.2 to 29.3**
Rated heating output for DHW heating				
Natural gas	kW	5.2 to 26	5.2 to 30	5.2 to 35
Rated heat input (Qn)				
Natural gas	kW	5.3 to 23.4	5.3 to 23.4	5.3 to 29.9
Rated heat input for DHW heating (Qnw)				
Natural gas	kW	5.3 to 26.5	5.3 to 30.6	5.3 to 35.3
Mass flow rate (for DHW heating)				
Natural gas				
– At maximum heating output	kg/h	49.3	57.3	62.1
– At partial load	kg/h	9.8	9.8	9.8
Available draught for type $C_{(10)}$ (at header system interface)	Pa	25	25	25
Maximum permissible pressure differential between flue gas outlet and air inlet for $C_{(10)}$ *3	Pa	–200	–200	–200

Note

The supply values are only for reference (e.g. in the gas contract application) or for a supplementary, rough estimate to check the volumetric settings. Due to factory settings, the gas pressure must not be altered from these values. Reference: 15 °C, 1013 mbar (101.3 kPa).

*3 Appliances for multiple connection, type B1HF-M (for multiple connection)

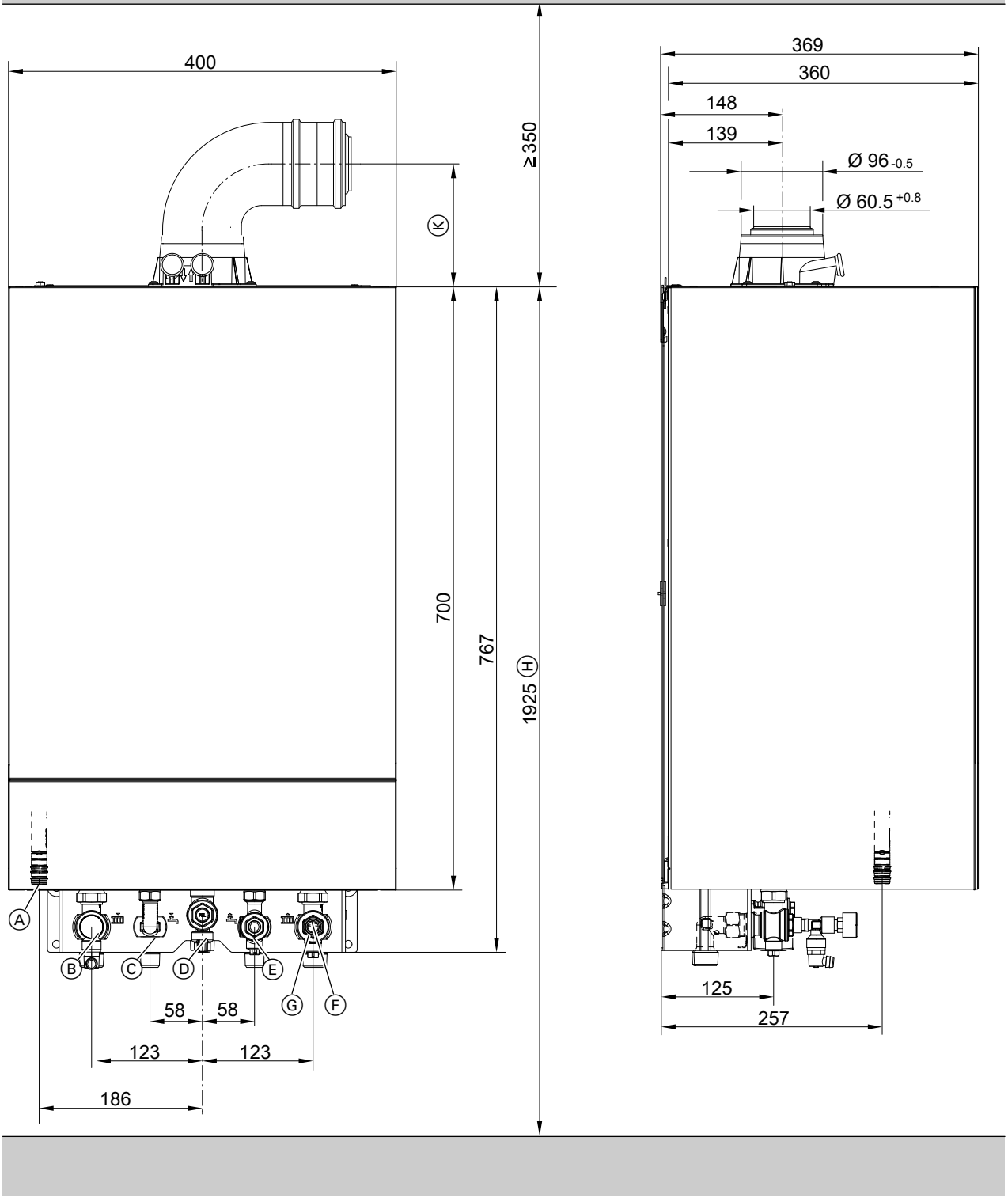

Illustration shows a gas condensing combi boiler

Ⓐ Condensate drain
Ⓑ Heating flow
Ⓒ DHW (gas condensing combi boiler)
Cylinder flow (gas condensing system boiler)
Ⓓ Gas connection
Ⓔ Cold water (gas condensing combi boiler)
Cylinder return (gas condensing system boiler)
Ⓕ Heating return
Ⓖ Filling/draining

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Ⓗ Dimension for siting with DHW cylinder below the boiler
Ⓚ Dimension: 161 mm – for external wall connection, Order nos. 7441467, 7411961
Dimension: 131 mm – for external wall connection, Order no. 7946886 (with reduced flue bend)

Note
The boiler (IP rating IP X4) is approved for installation in wet rooms in safety zone 1. Exposure to jets of water must be prevented. For open flue operation, the boiler may only be operated with a splash cover.

Variable speed heating circuit pump in the Vitodens 100-W

The integral circulation pump is a highly efficient pump with substantially lower power consumption than conventional pumps.
The pump speed and consequently the pump rate are controlled subject to the outside temperature and the switching times for heating mode or reduced mode. The control unit transmits the currently specified speeds to the circulation pump via a PWM signal.
The min. and max. speeds and the speed for reduced mode can be matched to the existing heating system via parameters at the control unit.

Setting (%) in group heating circuit 1:
- Min. speed: Parameter 1102.0
- Max. speed: Parameter 1102.1

- In the delivered condition, the minimum pump rate and the maximum pump rate are set to the following values:

Rated heating output in kW	Speed settings in the delivered condition in %	
	Min. pump rate	Max. pump rate
11	40	60
19	40	65
25	40	75
32	40	100

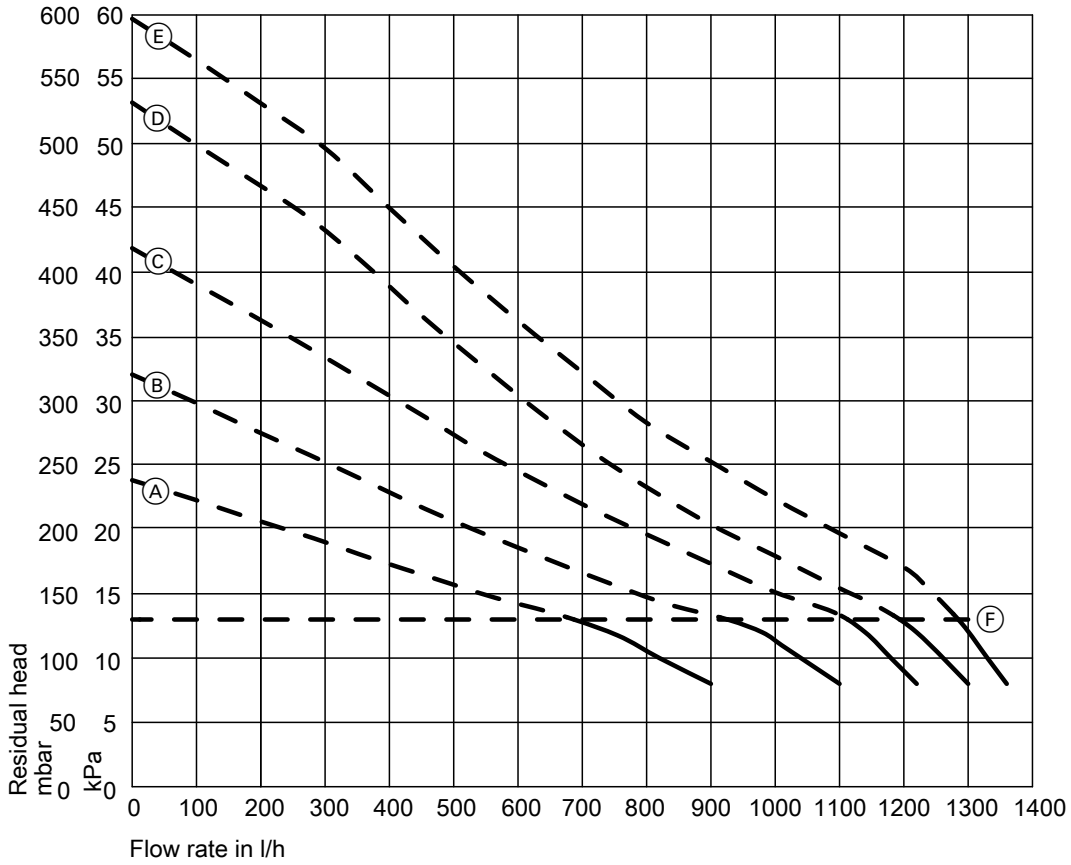
- In conjunction with a low loss header, heating water buffer cylinder and heating circuits with mixer, the internal circulation pump runs at a constant speed.

Specification – circulation pump

Rated heating output	**kW**	**11**	**19**	**25**	**32**
Type		**B1HF**	**B1HF B1KF**	**B1HF B1KF**	**B1HF B1KF**
Circulation pump	**Type**	**UPM4 15-75**	**UPM4 15-75**	**UPM4 15-75**	**UPM4 15-75**
Rated voltage	V~	230	230	230	230
Power consumption					
– Max.	W	63	63	63	63
– Min.	W	2	2	2	2
– Delivered condition	W	17.5	22.2	33.4	63
Energy efficiency class		A	A	A	A
Energy efficiency index (EEI)		≤ 0.20	≤ 0.20	≤ 0.20	≤ 0.20

Specification (cont.)

Residual head of integral circulation pump



Ⓕ Upper operational limit (integral bypass opens)

Curve	Pump rate of circulation pump
Ⓐ	60 %
Ⓑ	70 %
Ⓒ	80 %
Ⓓ	90 %
Ⓔ	100 %

Minimum clearances

Space required in front of the Vitodens for maintenance:
Min. 700 mm
No maintenance clearances are required to the left or right of the Vitodens.

Subject to technical modifications.

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