Technical Data

			Standard heating boiler
Boiler Model	**Model No.**	**WB1B 26**	**WB1B 35**
Natural gas and LPG			
CSA input	MBH	37-91	37-118
	kW	10.8-26.7	10.8-34.6
CSA output/DOE *1	MBH	34-83	34-108
heating capacity	kW	9.9-24.3	9.9-31.6
Net I=B=R rating *2	MBH	72	94
Heat exchanger surface area	ft.^{2}	10.23	10.23
	m^2	0.86	0.86
Min. gas supply pressure			
Natural gas	"w.c.	4	4
LPG	"w.c.	10	10
Max. gas supply pressure *3			
Natural gas and LPG	"w.c.	14	14
A.F.U.E.	%	94.0	94.0
Weight	lbs	78	78
	kg	34.1	34.1
Shipping weight	lbs	95	95
	kg	43	43
Boiler water content	USG	0.87	0.87
	ltr	3.3	3.3
Boiler max. flow rate *4	GPM	6.2	6.2
	ltr/h	1400	1400
Max. operating pressure	psig	45	45
at 210°F / 99°C	bar	3	3
Boiler water temperature			
– Adjustable high limit (AHL) range			
– space heating (steady state)	°F / °C	86 to 176 / 30 to 80	
– DHW production (set-point)	°F / °C	172 / 78	
– Fixed high limit (FHL)	°F / °C	210 / 99	
Boiler connections			
Boiler heating supply and return	NPTM (male) "	¾	¾
Pressure relief valve	NPTF (female) "	¾	¾
Drain valve	(male thread)	¾	¾
Dimensions			
Overall depth	inches	14 1/8	14 1/8
	mm	360	360
Overall width	inches	15¾	15¾
	mm	400	400
Overall height	inches	28½	28½
	mm	725	725

*1 *Output based on 140°F / 60°C, 120 °F / 49°C system supply/return temperature.*

*2 *Net I=B=R rating based on piping and pick-up allowance of 1.15.*

*3 *If the gas supply pressure exceeds the maximum gas supply pressure value, a separate gas pressure regulator must be installed upstream of the heating system.*

*4 *See "Maximum Flow Rates" on pages 15 to 17 in this manual.*

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		Standard heating boiler	
Boiler Model	**Model No.**	**WB1B 10-26**	**WB1B 10-35**
Gas supply connection	NPTF "	¾	¾
Flue gas *5			
Temperature (at boiler return temperature of 86°F / 30°C)			
– at rated full load	°F / °C	127 / 53	131 / 55
– at rated partial load	°F / °C	90 / 32	90 / 32
Temperature (at boiler return temperature of 140°F / 60°C)	°F / °C	167 / 75	172 / 78
Flue gas value			
Mass flow rate (of flue gas)			
– at rated full load	lbs/h	79.2	100.1
	kg/h	36.0	45.5
– at rated partial load	lbs/h	33.0	33.0
	kg/h	15.0	15.0
Available draught	Pa	100	100
	mbar	1.0	1.0
Flue gas temperature sensor limit	°F / °C	230 / 110	230 / 110
Average condensate flow rate *6			
with natural gas			
– T_S/T_R = 122/86°F / 50/30 °C	USG/day	1.95-2.3	2.5-2.8
	ltr/day	8-9	9.4-10.5
Condensate connection *7	hose nozzle		
	Ø in	1	1
Boiler flue gas connection *8	Ø		
	in/mm	$2^3/_8$/60	$2^3/_8$/60
Combustion air supply connection *8	outer		
	Ø in/mm	4/100	4/100
Noise level (at 1 meter)			
– at full load	(dB)	47	49
– at partial load	(dB)	40	42
High altitude (factory set) *9			
	ft. / m	0-5,000 / 0-1,500	0-5,000 / 0-1,500

*5 *Measured flue gas temperature with a combustion air temperature of 68°F / 20°C.*

*6 *Based on typical boiler cycles, including partial load conditions.*

*7 *Requires 1" / 25 mm tubing. See Vitodens 100-W Installation Instructions for details.*

*8 *For an overview of venting options refer to the appendix starting on page 19. For detailed information refer to the Vitodens Venting System Installation Instructions.*

*9 *For 5,000 to 10,000 ft / 1,500 to 3,048 m operation, a coding address change is required. Refer to the Installation and Service Instructions for details.*

▶ *For information regarding other Viessmann System Technology componentry, please reference documentation of respective product.*

Vitodens 100-W, WB1B 26/35
without piping connections

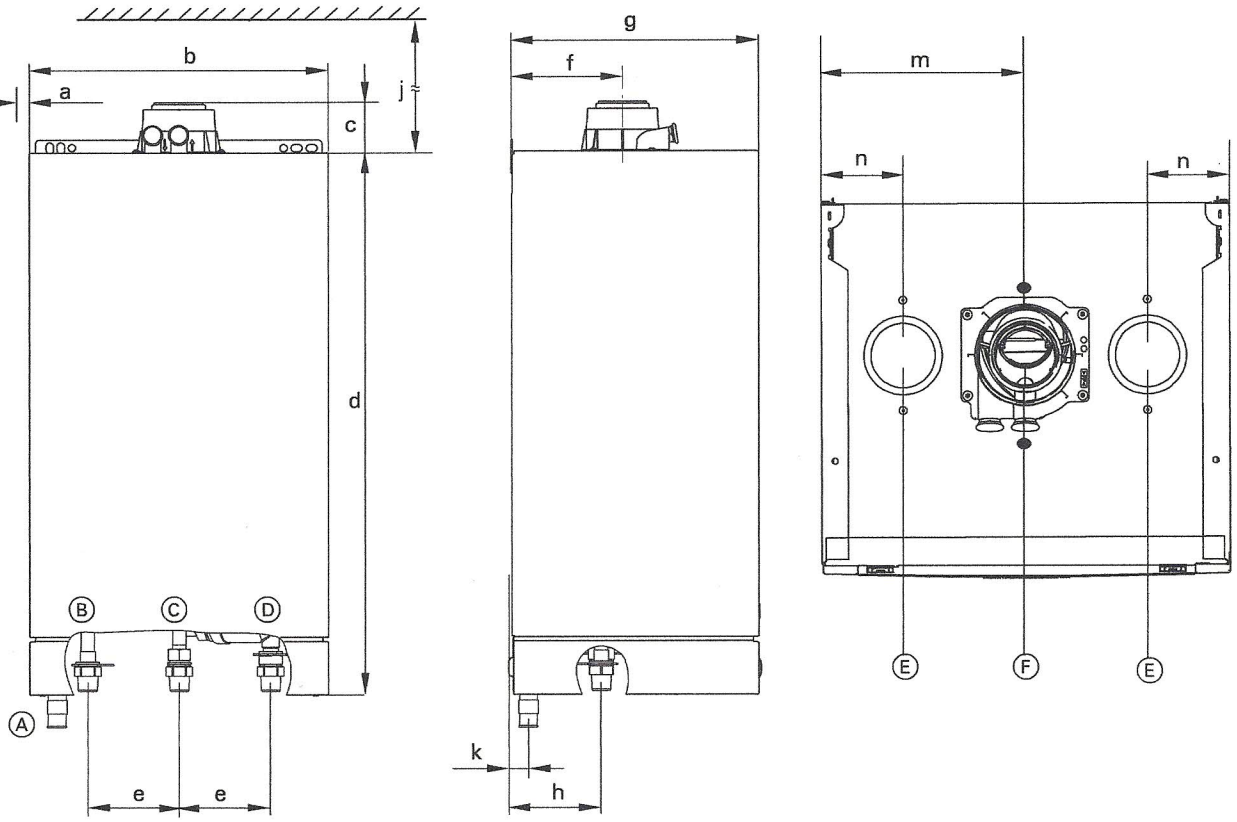

Fig. 1 Front view *Side view* *Top view*

Connections Vitodens 100-W,
WB1B 10-26, 10-35

Legend

Connections

Ⓐ Condensate drain, plastic hose Ø 1" / 25mm
Ⓑ Boiler water supply, NPT ¾" (male thread)
Ⓒ Gas connection, NPT ¾" (male thread)
Ⓓ Boiler water return, NPT ¾" (male thread)
Ⓔ Combustion air opening for double pipe system
Ⓕ Combustion air opening for co-axial system

Dimensions

a See fig. 2 for dimensions
b 15¾" / 400 mm
c $2^{5}/_{8}$" / 68 mm
d 28½" / 725 mm
e $4^{7}/_{8}$" / 123 mm
f $6^{1}/_{8}$" / 156 mm
g $14^{1}/_{8}$" / 360 mm
h 5" / 125 mm
j $9^{7}/_{8}$" / 250 mm
k $1^{1}/_{4}$" / 31 mm
m $7^{7}/_{8}$" / 200 mm
n $3^{1}/_{8}$" / 80 m

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