

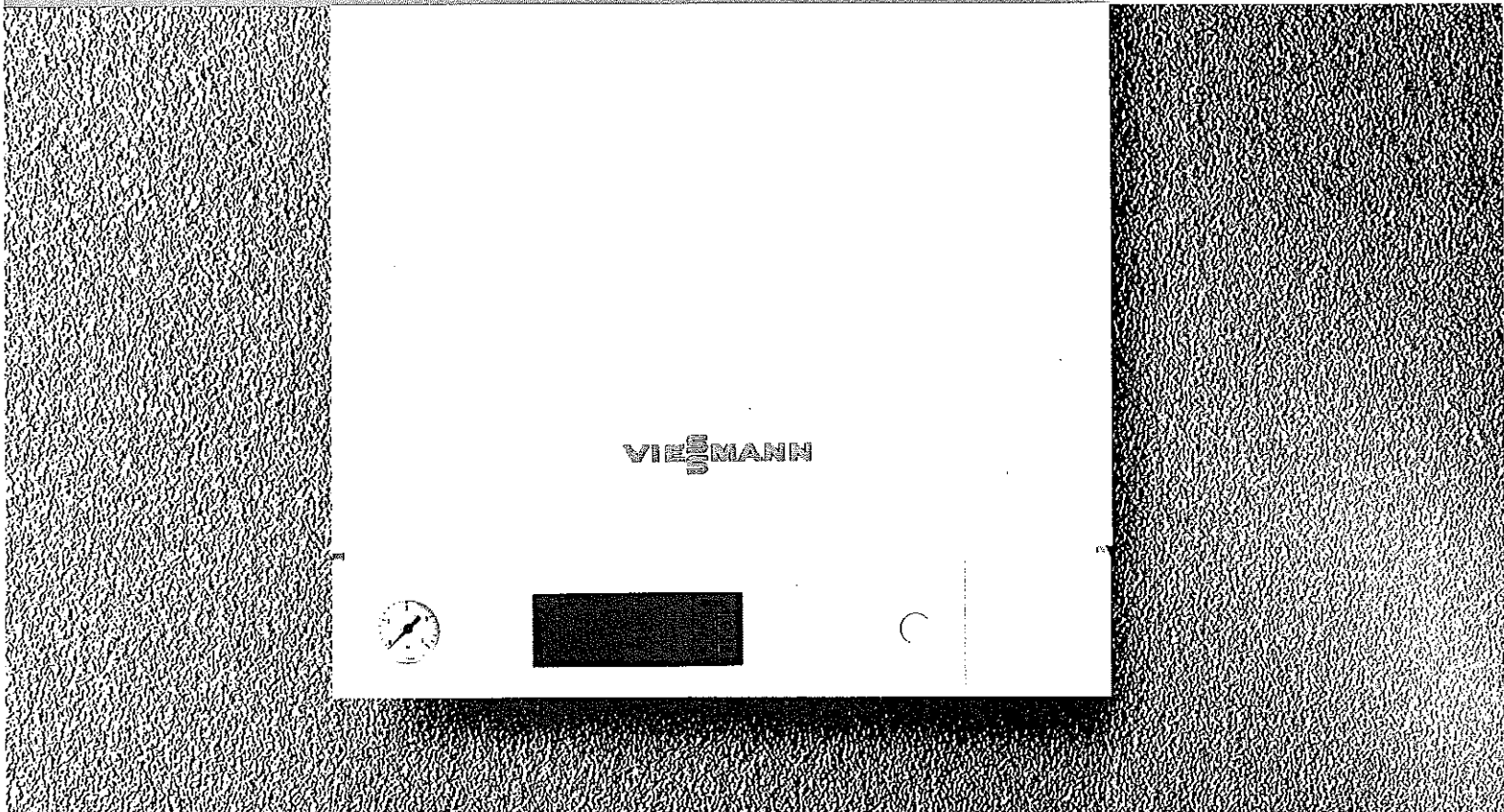
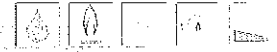
Gas Condensing Technology

VITODENS.100-W

Space Heating and On-Demand DHW with Combi boiler

VIESSMANN

climate of innovation®



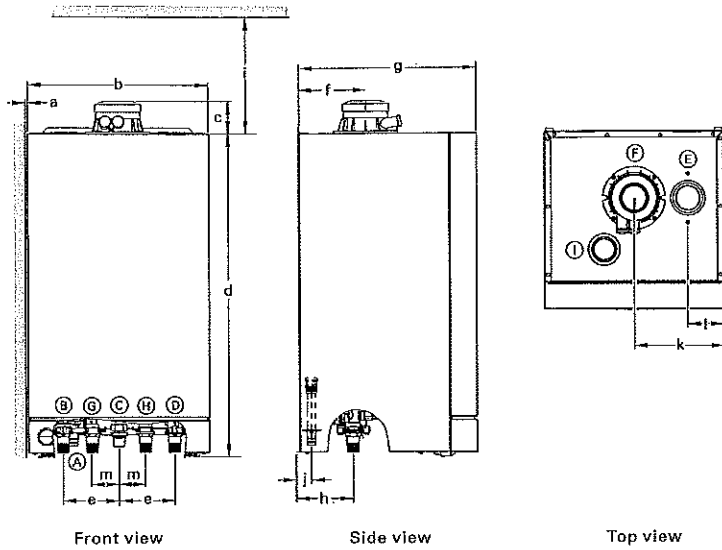
Heating Systems ◀

Industrial Systems

Refrigeration Systems

Technical Specifications

Vitodens 100-W B1HA, B1KA



Dimensions

- a ¼" - both sides of the boiler
- b 15 ¾"
- c 2 ½"
- d 27 ½"
- e 4 ¾"
- f 6"
- g 15 ¾"
- h 5"
- i 9 ⅝" minimum
- j 1 ½"
- k 7 ⅝"
- l 3 ⅝"
- m 2 ¼"

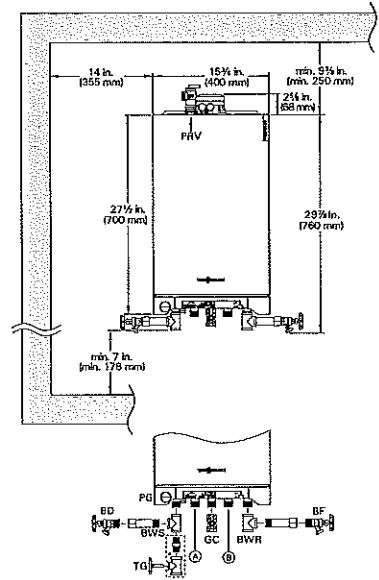
Vitodens 100-W, B1HA series and B1KA Combi boiler

Legend

- A Condensate drain, plastic hose Ø 1 in.
- B Boiler water supply, NPT ¾ in. (male thread)
- C Gas connection, NPT ¾ in. (male thread)
- D Boiler water return, NPT ¾ in. (male thread)
- E Combustion air opening for double pipe system
- F Combustion air opening for coaxial system
- G - For B1HA series, DHW tank heating supply, NPT ¾ in. (male thread)
- For B1KA combi, DHW, NPT ½ in. (male thread)
- H - For B1HA series, DHW tank heating return, NPT ¾ in. (male thread)
- For B1KA combi, DHW, NPT ½ in. (male thread)
- I Opening for pressure relief valve

Vitodens 100-W B1HA, B1KA

Vitodens		B1HA	B1HA	B1KA
Model		26	35	35
Maximum input (NG)	MBH	94	125	125
Minimum input (NG)	MBH	21	21	21
NET AHRI Rating	MBH	76	101	101
AFUE	%	95	95	95
Overall Dimensions				
Depth	inches	15.75	15.75	15.75
Width	inches	15.75	15.75	15.75
Height	inches	30.25	30.25	30.25
Weight	lbs	79.4	79.4	90
Boiler water content	USG	1.02	1.02	1.02
Heat exchanger surface	ft²	12.96	12.96	12.96
Maximum operating pressure	psig	45	45	45
Minimum gas supply pressure				
Natural Gas	"w.c.	4	4	4
LPG	"w.c.	10	10	10
Boiler water temperature maximum	°F	176	176	176
Adjustable high limit (AHL) range space heating (steady state)	°F	86-176	86-176	86-176
Boiler connections				
Gas valve connection	NPTM	¾	¾	¾
Boiler heating supply and return	NPTM	¾	¾	¾
Vent connections¹				
2-Pipe vent (PPS/CPVC) ²	Ø inches	2	2	2
2-Pipe intake (PPS/CPVC or PVC) ²	Ø inches	2	2	2
Coaxial	Ø inches (mm)	2/4 (60/100)	2/4 (60/100)	2/4 (60/100)



Legend

- (A) - DHW tank heating supply for B1HA boilers
- DHW for B1KA boiler
- (B) - DHW tank heating return for B1HA boilers
- DCW for B1KA boiler

- BWR Boiler water return
- BWS Boiler water supply
- BD Boiler drain
- BF Boiler fill
- GC Gas connection
- PRV Pressure relief valve
- PG Pressure gauge
- VC Venting connection
- TG Temperature gauge
- * Field supplied

Standard boiler equipment includes

- wall-mount boiler and installation fittings c/w 30 psig relief valve
- pressure gauge
- gas shut-off valve
- two fill/drain valves
- all mounting hardware
- outdoor temperature sensor
- tank temperature sensor (B1HA)
- DHW 150 psi relief valve (B1KA)
- Vent lengths up to 200'

¹ For detailed information refer to the Vitodens Venting System Installation Instructions.
² If using CPVC, order adapter number 7134789

