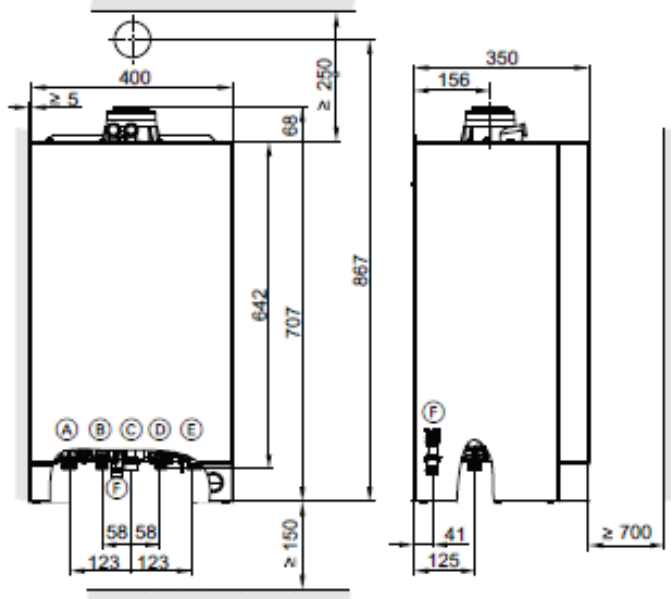


Vitodens 050-W

Gas-condensing boiler, type B and C,			
Catgory II_{2N3P} II2H3P, II2ELwLs3P, I2E(S), I3P, II2ESi3P			
Type			
Heat output (according to EN677)			
T_v/T_R = 50/30 °C	kW	6,5 - 24,0	8,8 - 33,0
T_v/T_R = 80/60 °C	kW	5,9 - 21,9	8,0 - 30,1
Water content heat exchanger (primary)	l	2.2	2.8
Water flow rate at T _v /T _R = 80/60 °C	l/h	941	1294
Expansion Vessel			
content	l	8	8
pre-charge pressure	bar	0,8 bar	0,8 bar
	kPa	80 kPa	80 kPa
max. system pressure	bar	3	3
	Mpa	0.3	0.3
Dimension			
Length	mm	350	350
Width	mm	450	450
Height	mm	707	707
Height with flue elbow	mm	867	867
Gas connection	G	3/4	3/4
Instantaneous DHW			
Hot and cold water connection	G	1/2	1/2
max operating pressure (DHW)	bar	10	10
	MPa	1	1
min cold water pressure	bar	1.0	1.0
	MPa	0.1	0.1
DHW temperature range	°C	30-60	30-60
Continuous DHW output	kW	29.3	35
DHW flow rate	l/min	11.8	14.2
at Δ T = 35 K (to EN 13203)			
Gas connection data			
related to max heat input with Gas			
NG E/H	m ³ /h	2.37	3.28
LPG P	kg/h	1.71	2.36
Flue connection^{*4}			
Flue gas group according to G 635/G 636			
		G ₅₂ /G ₅₁	G ₅₂ /G ₅₁
Temperature (at return temperature of 30°C)			
- max heat output (DHW)	°C	45	45
- min heat output	°C	35	35
Temperature (at return temperature of 60°C)			
	°C	68	70
Mass flow rate			
NG E/H			
- max heat output (DHW)	kg/h	38.1	52.4
- min heat output	kg/h	14.6	17.6
LPG P			
- max heat output (DHW)	kg/h	42.9	58.9
- min heat output	kg/h	15.9	19.4
Available flue gas pressure			
	Pa	100	100
	mbar	1.0	1.0
Standard seasonal efficiency			
at T _v /T _R = 40/30 °C	%	up to 97 (H _s) / 108 (H _i)	
Max. condensate rate			
according to DWA-A 251	l/h	3.1	4.3
condensate connection (hose)	ø mm	20-24	20-24
Flue gas connection	ø mm	60	60
combustion air inlet connection	ø mm	100	100

*4 calculated value to design the flue system in accordance to EN 13384.

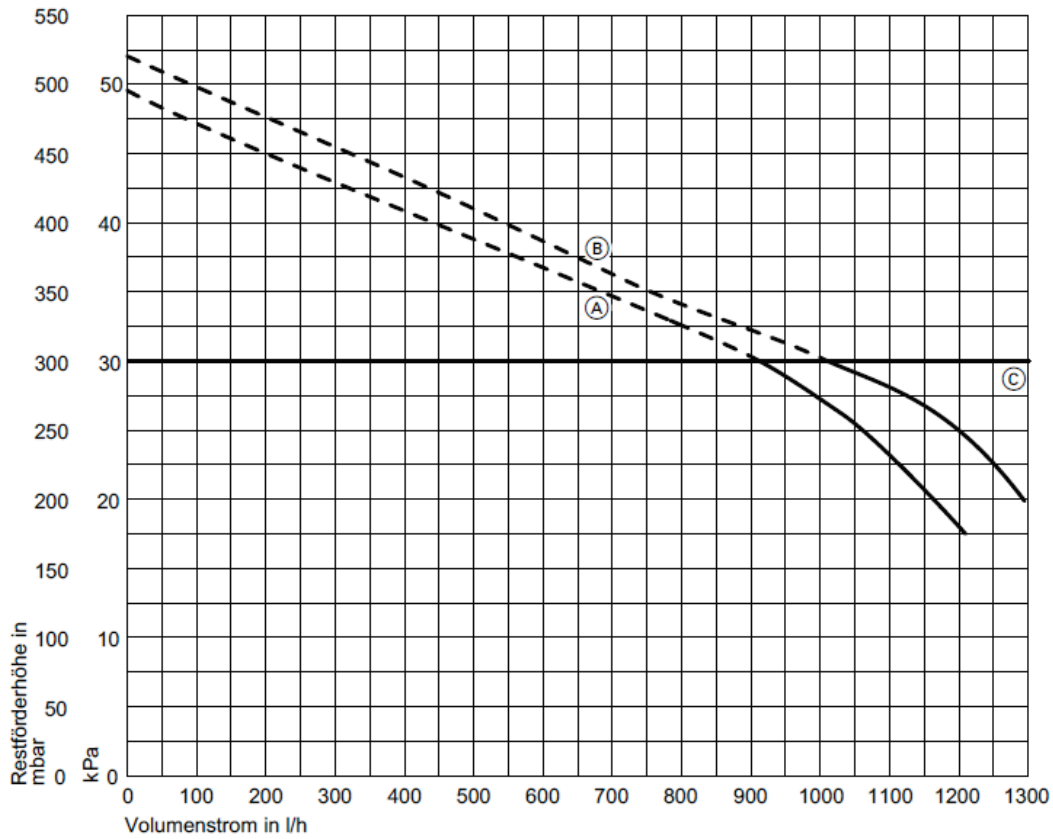
Dimensions and connections



Shown without fittings

- (A) Heating flow \varnothing 22 mm
- (B) DHW \varnothing 15 mm
- (C) Gas connection \varnothing 22 mm
- (D) Cold water \varnothing 15 mm
- (E) Heating return \varnothing 22 mm

Remaining pump head of the integrated circulating pump



- (A) 6.5 to 24kW
- (B) 8.8 to 33kW
- (C) Upper operating limit