

HEATING & HOT WATER BOILER

Volcan Series **MGBWA**

TECHNICAL SPECS

Heating System

Model	MGBWA070	MGBWA090	MGBWA0100
Gas type	Natural gas, LPG, Artificial coal gas		
Rated input capacity (Btu/h)	70.000	90.000	100.000
Rated output capacity (Btu/h)	63.000	81.000	93.300
Min. input capacity for heating (Btu/h)	36.000	38.000	38.000
Min. output capacity for heating (Btu/h)	32.000	34.200	35.800
Min. input capacity for hot water (Btu/h)	33.000	33.500	33.500
Min. output capacity for hot water (Btu/h)	27.600	27.600	27.600
AFUE (%)	90.1	90.1	93.3
Working pressure of heating system (PSI)	7~43	7~43	7~43
Max. heating water temperature (°F)	194	194	194
Adjustment range of heating water temperature (°F)	86~176	86~176	86~176
Rated electric power (W)	125	125	125
Electrical protection (IP)	X4D	X4D	X4D
Expansion tank volume (L)	6	6	8
Expansion tank prelead (PSI)	14.5	14.5	14.5
Heating area (ft ²)	500~1650	650~2200	850~2700
Power supply	110V/60Hz	110V/60Hz	110V/60Hz
Reference Natural Gas (12T) consumption (gom)	4~8.5	5.4~11.4	6.3~13.3
Lpg (20Y) (Lb/h)	1.65~3.45	2.2~4.6	2.55~5.4
Net weight (Lb)	80	83	88

Domestic Hot Water System

Model	MGBWA070	MGBWA090	MGBWA0100
Max. working pressure (PSI)	100	100	100
Min. working pressure (PSI)	7.25	7.25	7.25
Hot water capacity with $\Delta t=45$ F (Lb/min)	23	30	35
Hot water temperature adjustment range ($\pm 3^{\circ}\text{F}$) (°F)	86~140	86~140	86~140
Min. hot water flow for starting (Lb/min)	5.5	5.5	5.5
Limited flow (Lb/min)	22	22	22

Rated Gas Pressure

Model	MGBWA070	MGBWA090	MGBWA0100
Natural gas (PSI)	0.3	0.3	0.3
LPG (PSI)	0.4	0.4	0.4
Artificial Coal gas (PSI)	0.15	0.15	0.15

