

Model No.		SGP-E Z 190M2G2	
External dimensions (mm)			
	Height	2,248	
	Width	1,800	
	Depth	1,000 (+60)	
Weight (kg)		845	
Performance (kW)			
	Cooling capacity	56.0	
	Heating capacity (Standard)	63.0	
	Heating capacity (low temp.)	67.0	
	Heating capacity (Cold regions)	67.0	
Generate electricity power source		220 to 240 V, 50 Hz, Single-phase	
Electrical rating			
Cooling	Running amperes (A)	6.18	
	Power input (kW)	1.35	
	Power factor (%)	95	
Heating	Running amperes (A)	4.57	
	Power input (kW)	1.01	
	Power factor (%)	96	
Starting amperes (A)		30	
Gas Type			
Gas Band	P	Propane gas (G31)	
	H	natural gas (G20)	
	L	Natural gas (G25)	
	E	natural gas (G20)	
Gas consumption (kW)			
	Cooling	38.3	
	Heating (Standard)	43.0	
	Heating (low temp.)	56.4	
Compressor			
	Cooling oil (L) (type)	7.5 (HP-9)	
	Crankcase heater (W)	30	
Paint color (Munsell code)		Silky Shade (1Y8.5/0.5)	

Engine		
Displacement (L)		2.488
Rated output (kW)		12.4
Oil	Type Quantity (L)	Sanyo Genuine 46
Starter motor		12 V DC, 2.0 kW
Starter type		AC/DC conversion type DC starter
Engine cooling water		
Quantity (L)		27
Concentration, Freezing temperature		50 V/V%, -35°C
Cooling water pump rated output (kW)		0.16
Refrigerant type, Quantity (kg)		HFC [R410A] , 11.5
Air intakes		Front and Rear
Air outlet		Top
Piping		
Refrigerant outlet pipe (mm)		φ 25.4(brazed)
Refrigerant inlet pipe (mm)		φ 28.58(brazed) (φ 31.75) (Note 4)
Refrigerant liquid tube (mm)		φ 19.05(brazed)
Fuel gas		R3/4 (Bolt, thread)
Exhaust drain (mm)		φ 25 .Rubber hose (length: 200)
Operating noise level dB(A)		58
Ventilation System		
Type		Propeller fans (x2)
Air flow rate (m³/min)		380
Rated output (kW)		0.70×2
Drain heater (W)		40

Notes

1. Cooling and heating capacities in the tables are determined under the test conditions of JIS B 8627.

Operating condition	Cooling	Heating (standard)	Heating (low temp.)	Heating (cold environ.)
Indoor air intake temp.	27°CDB/19°CWB	20°CDB	20°CDB/15°CWB or less	20°CDB/15°CWB or less
Outdoor air intake temp.	35°CDB	7°CDB/6°CWB	2°CDB/1°CWB	-10°CDB/-11°CWB

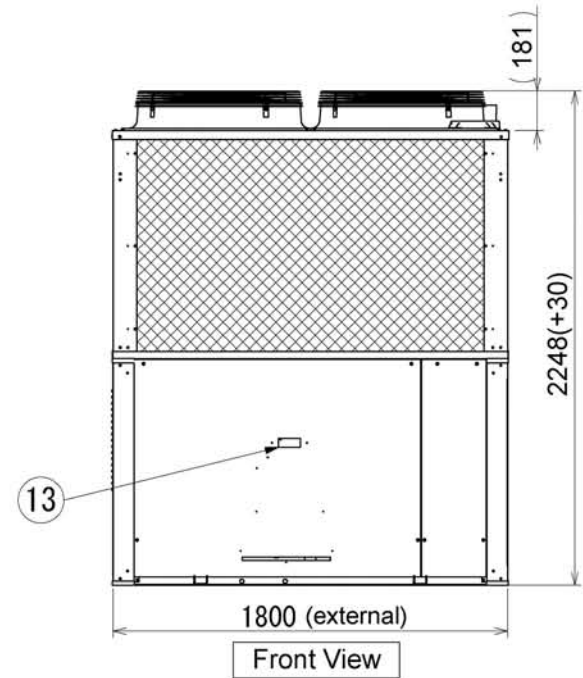
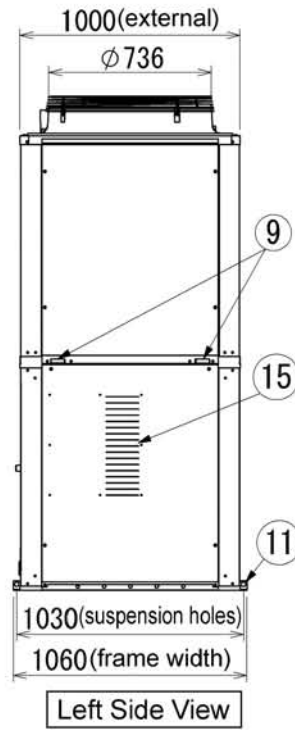
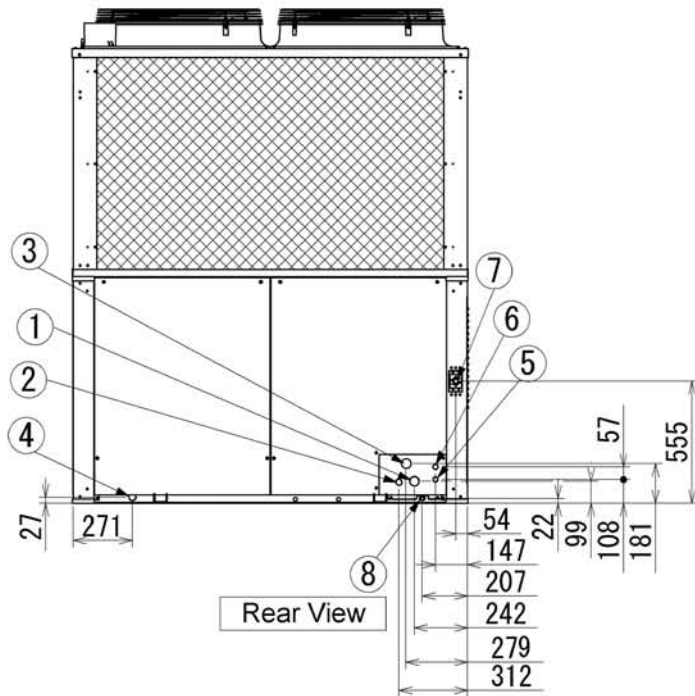
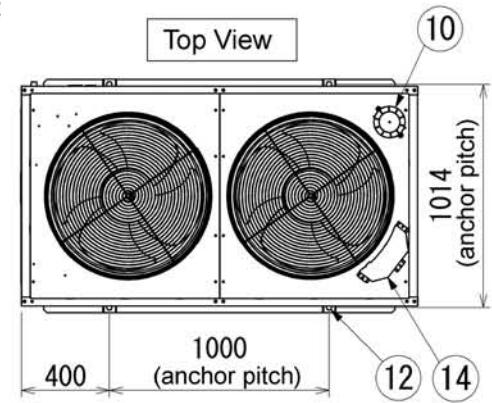
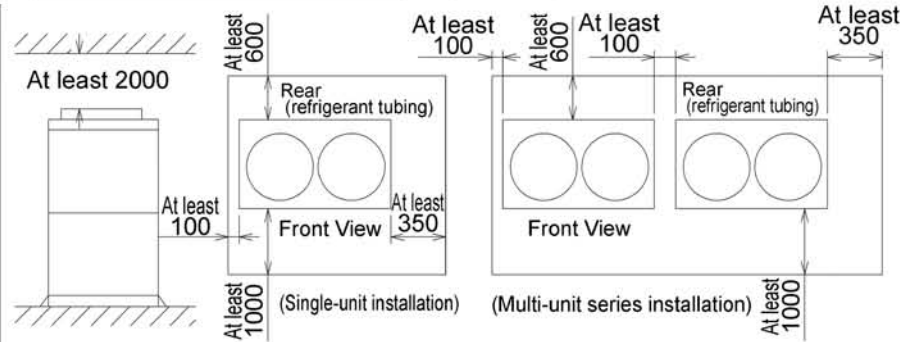
• Effective heating requires that the outdoor air intake temperature be at least -20°CDB or -21°CWB.

2. Gas consumption is the total (high) calorific value standard.
3. Outdoor unit operating sound is measured 1 meter from the front and 1.5 meters above the floor (in an anechoic environment). Actual installations may have larger values due to ambient noise and reflections.
4. Values in parentheses () for refrigerant gas and liquid types are those when the maximum piping length exceeds 90 meters (equivalent length). (Reducers are available locally.)
5. Specifications are subject to change without notice.

		Size (mm)	
Model Type		150	190 240
①	Suction refrigerant pipe	$\phi 28.58$	
②	Discharge refrigerant pipe	$\phi 22.22$	$\phi 25.4$
③	Liquid refrigerant pipe	$\phi 19.05$	
④	Exhaust gas drain hose	OD: $\phi 25$ Length: 200	
⑤	Inter-unit cable port	$\phi 28$	
⑥	Electrical power supply port	$\phi 28$	
⑦	Fuel gas port	G: R3/4	
⑧	Condensation drain opening	$\phi 20$	
⑨	Rain and condensation outlet		
⑩	Engine exhaust outlet		
⑪	Suspension holes	4- $\phi 20$	
⑫	Anchor holes	4- $\phi 24$	
⑬	Segmented display		
⑭	Coolant intake (top)		
⑮	Vent		

Service Clearances for Installation

(Units: mm)



Full Model Name	SGP-EZ150M2G2 SGP-EZ190M2G2 SGP-EZ240M2G2	External dimensions drawing	Scale	Free
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