



**GAS-FIRED HEAT PUMPS**  
**TECHNICAL SPECIFICATIONS**  
8 TON MULTI ZONE TYPE



MODEL - AXGP096E1NHS



		Unit of Measure	Value or Description	
<b>Capacity</b>	Rated Cooling	BTU/h (Ton)	96,000 (8)	
	Rated Heating	BTU/h (Ton)	103,000 (8.6)	
<b>External Dimensions</b>	Height	inch (mm)	81.8 (2077)	
	Width	inch (mm)	55.1 (1400)	
	Depth	inch (mm)	34.6 (880)	
<b>Mass</b>		lbs (kg)	1,340 (608)	
<b>Exterior color (Munsell No.)</b>			DIC546 1/2	
<b>Electric Characteristics</b>	Power Supply	V	Single-phase 230 or 208	
	Starting Current	A	20	
	Power Consumption	kW	Cooling	1.12
	Power Consumption	kW	Heating	0.9
	Operating Current	A	Cooling	4.7
	Operating Current	A	Heating	3.7
	Power Factor	%	Cooling	68
	Power Factor	%	Heating	68
<b>Fuel Gas Consumption</b>		BTU/h	Cooling	73,000
		BTU/h	Heating	79,500
<b>Engine</b>	Type		Water-cooled Straight 4-cycle OHV	
	Displacement	L	0.952	
	Rated Output	kW	10.0	
	Starting System		AC/DC Conversion DC Starter	
	Speed Range	rpm	Cooling	800 ~ 1700
	Speed Range	rpm	Heating	800 ~ 3000
	Lubricant: Type		AISIN Gas Engine Oil - L 10000G	
	Lubricant: Amount	gal (L)	7.93 (30)	
	Exhaust Port Position		On the Top	
<b>Engine Coolant</b>	Type		AISIN Coolant S	
	Amount	gal (L)	3.96 (15)	
	Concentration	Vol %	50	
	Freezing Temperature	°F (°C)	-4 (-20)	
	Pump: Type		DC Brushless Canned Pump	
	Pump: Motor Output	kW	0.12	
<b>Compressor</b>	Type x Number of Unit		Scroll Type x 2 Units	
	Displacement	inch <sup>3</sup> /rev (cm <sup>3</sup> /rev)	5.26 x 2 (86 x 2)	
	Speed Range	rpm	Cooling	840 ~ 1785
	Speed Range	rpm	Heating	840 ~ 3150
	Specified Refrigerant Oil		NL10	
	Amount of Refrigerant Oil	gal (L)	1.06 (4)	
	Power Transmission System		1 Poly V-Belt	



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		Unit of Measure	Value or Description
Refrigerant	Type		R410A
	Amount	lbs (kg)	25.4 (11.5)
Heat Exchanger	Outdoor Heat Exchanger		Slit Fin
	Exhaust Air Heat Exchanger		Multi-tube Heat Exchanger
	Engine Radiator		Louver Fin
Air Intake			Front / Back
Air Discharge			On the Top
Exhaust Heat Recovery System			Plate Heat Exchanger (Refrigerant Heating)
Defrosting System			Refrigerant Reverse Cycle
Fan	Type x Number of Unit		Propeller Fan x 2
	Rated Air Volume	cfm (m <sup>3</sup> /min)	9,710 (275)
	Motor: Type		Brushless DC Motor (8P)
	Motor: Rated Output	W	686 x 2
Piping Size	Refrigerant Line: Liquid Line	inch (mm)	3/8 (9.6)
	Refrigerant Line: Vapor Line	inch (mm)	7/8 (22.2)
	Fuel Gas Pipe		NTP 3/4
	Exhaust Port	inch (mm)	3-1/8 (80)
	Exhaust Air Drain Pipe	inch (mm)	5/8 (15)
Permissible Piping Length	Equivalent Length / Actual Length	ft (m)	623/541 (190/165)
Permissible Height Difference Between Indoor and Outdoor Units	Outdoor Unit Installed Above Indoor Units	ft (m)	164 (50)
	Outdoor Unit Installed Below Indoor Units	ft (m)	131 (40)
Permissible Vertical Distance Among Indoor Units		ft (m)	49 (15)
Connectable Indoor Units	Number of Units		1 ~ 17

**NOTE 1)** Capacity and electric characteristics values were measured in accordance with AISIN standard under JIS-B8627 condition.

**NOTE 2)** The noise level is measured in an anechoic room conforming to JIS standard. Actual noise level may be louder than measured value due to ambient noise and/or reverberation.

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Sierra products are subject to continuous improvement. Sierra reserves the right to modify product design, specification, and information in the data sheet without notice and without occurring and obligations.



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