

TECHNICAL SPECIFICATIONS

15 TON COMBINATION MULTI TYPE

 MODEL - AWGP180E1NHS



		Unit of Measure	Value or Description	
Capacity	Rated Cooling	BTU/h (Ton)	180,000 (15)	
	Rated Heating	BTU/h (Ton)	205,000 (17)	
External Dimensions	Height	inch (mm)	81.8 (2077)	
	Width	inch (mm)	65.4 (1660)	
	Depth	inch (mm)	34.6 (880)	
Mass		lbs (kg)	1,670 (758)	
Exterior color (Munsell No.)			DIC546 1/2	
Electric Characteristics	Power Supply	V	Single-phase 230 or 208	
	Starting Current	A	20	
	Power Consumption	kW	Cooling	1.32
	Power Consumption	kW	Heating	1.24
	Operating Current	A	Cooling	5.5
	Operating Current	A	Heating	5.2
	Power Factor	%	Cooling	67
	Power Factor	%	Heating	67
Fuel Gas Consumption		BTU/h	Cooling	186,000
		BTU/h	Heating	179,000
Engine	Type		Water-cooled Straight 4-cycle OHV	
	Displacement	L	1.998	
	Rated Output	kW	15.7	
	Starting System		AC/DC Conversion DC Starter	
	Speed Range	rpm	Cooling	600 ~ 2000
	Speed Range	rpm	Heating	600 ~ 2125
	Lubricant: Type		AISIN Gas Engine Oil - L 10000G	
	Exhaust Port Position		On the Top	
Engine Coolant	Type		AISIN Coolant S	
	Amount	gal (L)	6.87 (26)	
	Concentration	Vol %	50	
	Freezing Temperature	°F (°C)	-4 (-20)	
	Pump: Type		DC Brushless Canned Pump	
	Pump: Motor Output	kW	0.13	
Compressor	Type x Number of Unit		Scroll Type x 2 Units	
	Displacement	inch ³ /rev (cm ³ /rev)	5.26 x 2 (86 x 2)	
	Speed Range	rpm	Cooling	1170 ~ 3900
	Speed Range	rpm	Heating	1170 ~ 3802
	Specified Refrigerant Oil		NL10	
	Amount of Refrigerant Oil	gal (L)	1.06 (4)	
	Power Transmission System		1 Poly V-Belt	



GAS-FIRED HEAT PUMPS

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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 / Side
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 ³ /min)	13,700 (388)
	Motor: Type		Brushless DC Motor (8P)
	Motor: Rated Output	W	600 x 2
Piping Size	Refrigerant Line: Liquid Line	inch (mm)	5/8 (15.9)
	Refrigerant Line: Vapor Line	inch (mm)	1-1/8 (28.6)
	Fuel Gas Pipe		NTP 3/4
	Exhaust Port	inch (mm)	3-7/8 (100)
	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		2 ~ 33

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.



4830 Transport Drive
 Dallas, TX 75247, 214-638-6010
www.sierrafas.com