



TECHNICAL SPECIFICATIONS

15-TON MULTI-ZONE OUTDOOR HEAT PUMP



MODEL – AXGP180D1NHS



		UNIT OF MEASURE	VALUE OR DESCRIPTION
Capacity	Rated cooling capacity	BTU/h	180,000
	Rated heating capacity	BTU/h	205,000
External Dimensions	Height	Inch	82.7
	Width	Inch	83.5
	Depth	Inch	39.7
Electric Characteristics	Power supply	Volts	Single-phase 208 or 230
	Starting current (maximum)	Amps	20
	Power consumption	kW	Cooling 1.23
	Power consumption	kW	Heating 1.29
	Operating current	Amps	MCA 11.5
	Operating current	Amps	MOP 20
Engine	Type		Water-cooled straight 4-cycle OHV
	Displacement	Liter	2.237
	Rated output	Hp	23.75
	Starting system		AC/DC conversion DC starter
	Speed range	rpm	Min 800
	Speed range	rpm	Max 1,825
	Lubricant type		AISIN Gas Engine Oil L-10,000G
	Lubricant amount	Liter	40
	Exhaust port position		Top
Engine Coolant	Type		AISIN Coolant S
	Amount	Liter	23
	Concentration	Vol %	50
	Freezing temperature	°F	-4
	Pump type		DC brushless pump
	Pump motor output	Hp	1/6
Compressor	Number of units		4 - Scroll
	Displacement	Inch ³ /rev	3.17 x 4
	Speed range	rpm	Cooling 1,480 - 2,960
	Speed range	rpm	Heating 1,572 - 2,960
	Specified refrigerant oil		AISIN NL 10
	Amount of refrigerant oil	Liter	5
	Power transmission system		2 Poly V-belts

HEAT. COOL. SAVE.



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Refrigerant	Type		R410A	
	Amount	lbs	25.4	
Heat Exchanger	Outdoor heat exchanger		Slit Fin	
	Exhaust air heat exchanger		Multi-tube heat exchanger	
	Engine radiator		Louver fin	
Fan	Type		Propeller fan (x 3)	
	Rated air volume	cfm	15,362	
	Motor type		Brushless DC motor (8P)	
	Motor rated output	Hp	1/3 x 3	
Piping Diameter/Size	Refrigerant liquid line	Inch	5/8OD	
	Refrigerant vapor line	Inch	1 1/8OD	
	Fuel gas connection	NPT	3/4	
	Exhaust port	Inch	3 1/8	
	Exhaust air drain pipe	Inch	5/8	
Permissible Trunk Piping Length	Equivalent length/Actual length	Feet	623/541	
Permissible Height Between IUs & OUs	Outdoor unit installed above indoor units	Feet	164	
	Outdoor unit installed below indoor units	Feet	131	
Permissible Vertical Distance Among IUs		Feet	49	
Connectable Indoor Units	Number of units		1 - 33	
	Total capacity	BTU/h	90,000 – 234,000	
Additional Specifications	Air inlet port		Front/Back	
	Air outlet port		Top	
	Exhaust heat recovery system		Plate heat exchanger (Refrigerant heating)	
	Defrosting system		Hot gas bypass system	
	Noise	dB	56 - 58	
	Weight	lbs	2,006	
	Fuel gas consumption	BTU/h	Cooling @ 95°F	189,000
	Fuel gas consumption	BTU/h	Heating @ 47°F	165,000

NOTE 1) Capacity and electric characteristics values were measured in accordance with AISIN standard under ANSI/UL 1955, CAN/CSA C22.2 236-05 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.