



### Inverter Heat Pump Split System

Up to **17.5 SEER**

**9.5 HSPF**

#### AIR HANDLING UNIT HIGHLIGHTS

##### Drain Pan

Durable non corrosive plastic drain pans.

##### Coil

"A" shape coils, constructed with copper tubing and enhanced aluminum fins

##### Cabinet

Galvanized steel, with powder paint on all panels.

##### Expansion device

Use TXV as expansion device

##### Motor

Brushless DC motor with high energy efficiency and low noise.

##### Multi-position installation

Versatile 4-way convertible design for vertical up and down airflow, horizontal right and left airflow.

##### Filter optional

Detachable air filter for cleaning or renewal.

##### Control

24V control, time delay relay, fan relay and transformer included.

#### CONDENSING UNIT HIGHLIGHTS

- R-410A environmentally friendly refrigerant.
- Painted galvanized steel cabinet.
- 24V low voltage control
- Twin-rotary DC compressor reliable quality
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- Use EXV as expansion device for outdoor unit in heating mode
- The refrigerant pipeline cooling and fin cooling are used to cool the electronic control board. Make the circuit temperature more stable and the operation life longer



24K, 36K, 48K & 60K BTU

## Air Handling Unit

Model		AIDH2400VG1-D	AIDH3600VG1-D	AIDH4800VG1-D	AIDH6000VG1-D	
Power Supply	V/Ph/Hz	208-230V/1PH/60Hz				
Cooling	Capacity	Btu/h	24000	34500	47000	56000
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	30	40	50	60
	SEER		17.5	17.5	17.5	17.5
Heating	Capacity	Btu/h	24000	34500	46500	55000
	HSPF		9.5	9	9.5	9.5
Indoor Coil	Number of Rows		4x2	4x2	4x2	5x2
	Tube Outside Dia. / Type	in	0.28 inch / Inner groove tube			
	Fin Spacing / Thickness / Type	in. / in.	0.062 / 0.0037 / Hydrophilic aluminum			
Indoor Motor	Tube Pitch(a) x Row Pitch(b)	in	0.53 x 0.83	0.53 x 0.83	0.53 x 0.83	0.53 x 0.83
	Type		ECM	ECM	ECM	ECM
	Rated HP		1/3	1/2	3/4	3/4
	Rated RPM	r/min	770	870	1050	1120
Indoor Fan	FLA		2.8	4.1	6	6
	Material		Galvanized plate			
	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Diameter	inch	11	11	11	11
Indoor Air Flow	Height	inch	10-5/8	10-5/8	10-5/8	10-5/8
	CFM		830	1100	1500	1750
ESP	Pa		25	37.5	50	50
Indoor Noise Level	dB(A)		63	66	67	68
	Throttle Type		TXV			
Metering Device	Model Number		3TR	3TR	5TR	5TR
	Voltage-Phase-Hz	V-Ph-Hz	208/230V 1Ph 60Hz			
Electrical Data	Minimum Circuit Ampacity		3.5	5.1	7.5	7.5
	Max. Overcurrent Protection		15	15	15	15
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
	Dimension Unit (HxWxD)	in.	45-3/4 x 19-2/3 x 22		53 x 22 x 24-1/2	
	Packing (HxWxD)	in.	47-3/5x22-7/8x25-3/5		54-3/4x25-1/8x28	
	Net / Gross Weight	lbs.	126 / 139		170 / 188	
Refrigerant	Piping Liquid Side / Gas Side	in.	3/8 / 3/4		3/8 / 7/8	

## Condensing Unit

Model		ACTH2418VG1-D	ACTH3618VG1-D	ACTH4818VG1-D	ACTH6018VG1-D	
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230V-1PH-60Hz			
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	30	40	50	60
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	24000	34500	47000	56000
	EER	Btu/h.W	11.6	11.6	11.6	11.2
	SEER	Btu/h.W	17.5	17.5	17.5	17.5
Heating	Capacity	Btu/h	24000	34500	46500	55000
	HSPF	Btu/h.W	9.5	9	9.5	9.5
Compressor	Type		Twin-rotary DC	Twin-rotary DC	Twin-rotary DC	Twin-rotary DC
	Capacity	W/h	7130±5%	7130±5%	13780±5%	13780±5%
	Input	W	2200±5%	2200±5%	4040±5%	4040±5%
	Rated Current (RLA)	A	9.7	9.7	11.8	11.8
	Refrigerant Oil	oz	29.42	29.42	47.34	47.34
	RLA		13.5	13.5	27.2	27.2
Outdoor Motor	LRA		45	45	58.1	58.1
	Type		AC	AC	DC	DC
	Rated HP	W	1/3	1/2	3/4	3/4
	Capacitor	µF	6	6	/	/
Outdoor Coil	Speed	rpm	40	40	60	60
	FLA	A	0.8	1	2.5	2.5
Outdoor Fan	Material		Metal			
	Type		Axial flow			
	Diameter	in.	23-5/8	23-5/8	23-5/8	23-5/8
	Height	in.	2-3/4	4-1/2	4-1/2	4-1/2
Outdoor Noise Level	Air Flow	CFM	2950	2950	4100	4100
	Number of Row		1	2	2	2
Outdoor Unit	Tube Outside Dia	in	9/32	9/32	9/32	9/32
	Dimension (HxWxD)	in.	24-15/16x29-1/8x29-1/8		32-7/8x29-1/8x29-1/8	
Refrigerant	Packing (HxWxD)	in.	26-1/4x30-1/5x30-1/5		34-1/2x30-1/5x30-1/5	
	Net / Gross Weight	lbs.	157 / 165		201 / 211	
	Liquid Side / Gas Side	in.	3/8 / 3/4		3/8 / 7/8	
	Factory Charge R410A	oz	114		166	
	Metering Device		EEV		EEV	
	Max. Refrigerant Pipe Length	Ft	100		100	
Max. Difference in Level	Ft	50		50		

## Air Handling Unit Dimensions

Model Size	Dimensions				
	Height (in)	Width (in)	Depth (in)	Supply Duct (in)	Liquid Line / Vapor Line (in)
24K	45 3/4	19 5/8	22	17 7/8	3/8" / 7/8"
36K	45 3/4	19 5/8	22	17 7/8	3/8" / 7/8"
48K	53 1/8	22	24 3/8	19.5	3/8" / 7/8"
60K	53 1/8	22	24 3/8	19.5	3/8" / 7/8"

## Condensing Unit Dimensions

Model Size	Dimensions		
	Height (in)	Width (in)	Depth (in)
24K	24 15/16	29 1/8	29 1/8
36K	24 15/16	29 1/8	29 1/8
48K	33 3/16	29 1/8	29 1/8
60K	33 3/16	29 1/8	29 1/8

Note: All dimensions are subject to change without notice.

Proven **TECHNOLOGY** that also helps **CONTROL HUMIDITY.**



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