



(PKA-A30KA4 MODEL SHOWN)

PKA HEAT PUMP

INVERTER



BS = Seacoast Protection

Model Name	Indoor Unit		PKA-A18HA4	PKA-A24		
	Outdoor Unit		PUZ-A18NHA4 (-BS)	PUZ-A24NHA		
Cooling *1	Rated Capacity	Btu/h	18,000	24,000		
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000		
	Total Input	W	2,240	2,270		
	Energy Efficiency	SEER	15.3	17.0		
	Moisture Removal	Pints/h	5.2	5.0		
	Sensible Heat Factor		0.68	0.77		
Heating at 47° F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000
	Total Input	W	1,970	2,330	3,150	3,610
	HSPF (IV)	Btu/h/W	9.5	10.8	8.9	9.3
Heating at 17° F *3	Capacity	Btu/h	13,000	18,000	23,000	25,000
	Total Input	W	1,670	2,200	2,850	3,030
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *4			
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V			
	Indoor - Outdoor S2 - S3		DC24			
Indoor Unit	MCA	A	1			
	Fan Motor	F.L.A.	0.33	0.36		0.57
	Fan Motor Output	W	30	56		56
	Airflow (Lo-Mid-Hi)	DRY (CFM)	320-370-425	635-705-775		705-810-920
		WET (CFM)	290-335-380	570-635-700		635-730-830
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	36-40-43	39-42-45		43-46-49
	External Finish Color		Munsell No. 1.0Y 9.2 / 0.2			
	Dimension Unit	W: In.	35-3/8	46-1/16		
		D: In.	9-13/16	11-5/8		
		H: In.	11-5/8	14-3/8		
	Weight Unit	Lbs.	29	46		
	Field Drainpipe Size O.D.	In.	5/8			
Outdoor Unit	MCA	A	13	18	25	
	Recommended Fuse/Breaker Size	A	15	25	30	
	MOCP	A	20	30	40	
	Fan Motor	F.L.A.	0.35	0.75		
	Fan Motor Output	W	40	75		
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary			
		R.L.A.	12			
		L.R.A.	14	17.5		
	Airflow	CFM	1,200	1,940		
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	48			
	Sound Pressure Level at Heating *2	dB(A)	47	50		
	External Finish Color		Munsell No. 3Y 7.8 / 1.1			
	Dimensions	W: In.	31-1/2	37-3/8		
		D: In.	11-13/16 +7/8	13 + 1-3/16		
		H: In.	23-5/8	37-1/8		
	Weight	Lbs.	91	165		
	Refrigerant	Type	R410A			
		Charge	Lbs., oz.	3, 12	6, 10	
Oil		Type (fl. oz.)	FV50S (20)			
Refrigerant Pipe	Gas Side O.D.	In.	1/2			
	Liquid Side O.D.	In.	1/4			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.				
	Length (Max.)	Ft.	100			
Connection Method	Indoor/Outdoor					

Calculation required to determine the LEED form:

Conversion factor: 1 ton = 12000 Btu/h
18000 / 12000 = 1.5 tons

Refrigerant Charge

Calculation required to determine the LEED form:

NOTES: Test conditions are based on AHRI 210/240.

*1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B.

*2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B.

*3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B.

*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring. Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

Tonnage

Calculation required to determine the input for the LEED form:

Conversion factor: 1 ton = 12000 btu/hour
 18000 / 12000 = 1.5 tons

Refrigerant Charge

Calculation required to determine the input for the LEED form:

Conversion factor: 1 oz = 0.0625 lbs

12 oz * 0.0625 = 0.75 lbs

3 lbs + 0.75 lbs = 3.75 lbs total in unit

Rc = (3.75 lbs) / (1.5 tons) = 2.5 lbs/ton