

PIONEER®

Air Conditioning & Heat Pump Systems

The "right choice" for those who want the "Best"....

CYB-M22

DC INVERTER++ SPECIFICATIONS

(DC Inverter Heat Pump)

8-Way Ceiling Cassette Type Split Systems

(9,000 through 48,000 BTU/Hr.)

16.8~21.5 SEER - DC Inverter++



012 ~ 018 Models



024 ~ 048 Models



Mod. 012-018



Mod. 024-036



Mod. 048



- STANDARD ACCESSORIES:**
- LCD WIRELESS CONTROLLER
 - CONDENSATE REMOVAL PUMP
 - FRESH AIR DUCT INTAKE
 - REMOTE DUCT CONNECTIONS



- OPTIONAL ACCESSORIES:**
- LCD DIGITAL WIRED REMOTE

- AVAILABLE VOLTAGES:**
- G : 208-230/1/60 (009-048)

- AVAILABLE REFRIGERANTS:**
- F : R410A ONLY



STANDARD FEATURES

- DESIGNED FOR FURRED IN, FLUSH TO CEILING INSTALLATION
- COOLING ONLY OR HEAT PUMP APPLICATIONS
- ULTRA SLIM FULLY CASED COMPACT CABINET DESIGN
- KNOCKOUT PLATES FOR REMOTE DUCTED DROP ADDITION
- FULL GALVANIZED HEAVY STEEL CASING FOR INDOOR UNITS
- NEWEST 8-WAY AIR DISCHARGE LOUVER TECHNOLOGY
- DIGITAL LCD SCREEN WIRELESS REMOTE CONTROLLER
- ULTRA QUIET AIR DELIVERY WITH HIGH PERFORMANCE
- VARIABLE SPEED ECM INDOOR FAN MOTORS
- HEAVY GAUGE CLOSED CELL EXTERNAL RUBBER INSULATION
- AUTO-RESTART WITH MEMORY FOR POWER OUTAGES
- TIMER FOR PRESET STARTING AND STOPPING
- AUTO CHANGEOVER, DRY AND FAN ONLY MODES
- SEASON SENSITIVE OPERATIONAL LOGIC
- SELF LEARNING TIME-DEMAND DEFROST
- AUTOMATIC SWING DIRECTIONAL LOUVERS
- THREE + AUTO SPEED PSC BLOWER MOTOR
- DIGITAL MOTOR SPEED CONTROL SYSTEM
- WHISPER QUIET INDOOR MOTOR WITH BALL BEARINGS
- HIGH AIR FLOW VOLUME FOR QUICK PERFORMANCE
- ULTRA HIGH EFFICIENCY GROOVED COPPER TUBES
- ENHANCED LOUVERED HYDROPHILIC ALUMINUM FINNS
- LATEST TECHNOLOGIES IN DC INVERTER DRIVER SYSTEM
- DYNAMICALLY BALANCED ULTRA QUIET SCIROCCO BLOWERS
- ANTI MILDEW TREATMENT ON BLOWER WHEELS
- SUPERIOR ENERGY EFFICIENCY AND PERFORMANCE
- FULLY VARIABLE SPEED COMPRESSORS FOR ALL MODELS
- FULLY CHARGED WITH ENVIRONMENTALLY FRIENDLY R410A GAS
- PRECISION CONTROLLED COMPRESSOR AND FAN MOTORS
- ULTRA GALVANIZED SHEET METAL PARTS
- HEAVY COAT OF BAKED ENAMEL PAINT FOR THE OUTDOOR UNIT
- DURABLE OUTDOOR FAN WITH HIGH GLASS CONTENT
- EXTRA DURABLE, PERMANENTLY LUBRICATED OUTDOOR MOTOR
- INTERNAL OVERLOAD PROTECTION FOR MOTORS
- FLARE TYPE REFRIGERANT CONNECTIONS
- FULL OPERATING CHARGE OF REFRIGERANT
- STANDARDIZED CABINET DESIGN FOR ALL MODELS
- EASY ACCESS FOR PIPING AND WIRING CONNECTIONS
- HIGHEST GRADE COMPONENTS FOR LONG LIFE EXPECTANCY
- AMPLE AVAILABILITY OF SPARE PARTS AND ACCESSORIES

PIONEER®
Air Conditioning & Heat Pump Systems

CYB-M22 Series Product Line Up

PARKER DAVIS HVAC SYSTEMS, INC.
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INDOOR SECTION MODEL NUMBERS AND SPECIFICATIONS:

Model		CB009GMFILCFHD	CB012GMFILCFHD	CB018GMFILCFHD	CB024GMFILCFHD	CB036GMFILCFHD	CB048GMFILCFHD	
Product Code		22022511000703	22022511000710	22022511000711	22022511000481	22022511000666	22022511001716	
Power supply	V-ph-Hz	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	
Cooling	Capacity	9000	12000	18000	24000	36000	48000	
	SEER	20	21.5	20	20	17.5	16.8	
	EER	13	14	12.5	12.5	9	9.5	
Heating	Capacity	10000	12000	18000	24400	38000	50000	
	HSPF4	10.5	10.5	10.3	10.5	10.5	11	
	Model	ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-42-8-1	ZKFP-124-8-2	ZKFN-170-8-1	
Indoor fan motor	Qty	1	1	1	1	1	1	
	Power	W	46(Output)	46(Output)	42	124	170	
	RLA	A	0.9	1	1.5	2	10	
	Speed	r/min	600 / 520 / 460	680 / 580 / 500	730 / 630 / 570	600 / 520 / 450	720 / 630 / 560	950 / 900 / 800 / 700
Indoor air flow (Hi/Med/Lo)	m ³ /h	635 / 511 / 437	644 / 525 / 443	951 / 770 / 655	1189 / 1075 / 974	1861 / 1630 / 1350	2000 / 1750 / 1450	
Indoor air flow (Hi/Med/Lo)	CFM	374 / 301 / 257	379 / 309 / 261	560 / 455 / 385	700 / 630 / 573	1095 / 960 / 795	1177 / 1030 / 853	
Indoor noise level (Hi/Med/Lo)	dB(A)	41 / 37 / 33	43 / 39 / 36	44 / 39 / 36	51 / 47 / 43	55 / 52 / 49	55 / 52 / 49	
Indoor unit	Dimension (WxDxH)	mm	570 x 570 x 260	570 x 570 x 260	570 x 570 x 260	840 x 840 x 205	840 x 840 x 245	840 x 840 x 287
	Dimension (WxDxH)	inch	22"-1/2 x 22"-1/2 x 10"-1/4	22"-1/2 x 22"-1/2 x 10"-1/4	22"-1/2 x 22"-1/2 x 10"-1/4	33" x 33" x 8"	33" x 33" x 9"-5/8"	33" x 33" x 11"-3/8"
	Packing(WxDxH)	mm	655 x 655 x 290	655 x 655 x 290	655 x 655 x 290	900 x 900 x 217	900 x 900 x 257	900 x 900 x 292
	Packing(WxDxH)	inch	25"-3/4 x 25"-3/4 x 11"-1/2	25"-3/4 x 25"-3/4 x 11"-1/2	25"-3/4 x 25"-3/4 x 11"-1/2	35"-1/2 x 35"-1/2 x 8"-1/2	35"-1/2 x 35"-1/2 x 10"-1/8	35"-1/2 x 35"-1/2 x 11"-1/2
	Net/Gross weight	kg	14.5 / 17.3	16 / 18.6	16.1 / 18.7	21 / 24.6	26.4 / 30	28.7 / 32.9
	Net/Gross weight	lbs.	32 / 38	35 / 41	35.5 / 41.5	46.5 / 54	58 / 66	63.5 / 72.5
Panel	Dimension (WxDxH)	mm	647 x 647 x 50	647 x 647 x 50	647 x 647 x 50	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55
	Dimension (WxDxH)	inch	25"-1/2 x 25"-1/2 x 2"	25"-1/2 x 25"-1/2 x 2"	25"-1/2 x 25"-1/2 x 2"	37"-1/2 x 37"-1/2 x 2"	37"-1/2 x 37"-1/2 x 2"	37"-1/2 x 37"-1/2 x 2"
	Packing(WxDxH)	mm	715 x 715 x 123	715 x 715 x 123	715 x 715 x 123	1035 x 1035 x 90	1035 x 1035 x 90	1035 x 1035 x 90
	Packing(WxDxH)	inch	28 x 28 x 5	28 x 28 x 5	28 x 28 x 5	40"-3/4 x 40"-3/4 x 3"-1/2	40"-3/4 x 40"-3/4 x 3"-1/2	40"-3/4 x 40"-3/4 x 3"-1/2
	Net/Gross weight	kg	2.5 / 4.5	2.5 / 4.5	2.5 / 4.5	5 / 8	5 / 8	5 / 8
	Net/Gross weight	lbs.	5.5 / 10	5.5 / 10	5.5 / 10	11 / 17.5	11 / 17.5	11 / 17.5
Design pressure	PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	
Drainage water pipe diameter	mm	ODΦ25	ODΦ25	ODΦ25	ODΦ32	ODΦ32	ODΦ32	
	Inch	1"	1"	1"	1"-1/4	1"-1/4	1"-1/4	
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35 / Φ9.52	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ9.52 / Φ15.9	Φ9.52 / Φ15.9	Φ9.52 / Φ15.9
	Inch.	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Controller		Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote	
Room temperature	Cooling	°C	17~32	17~32	17~32	17~32	17~32	
	Cooling	°F	62~90	62~90	62~90	62~90	62~90	
	Heating	°C	0~30	0~30	0~30	0~30	0~30	
	Heating	°F	32~86	32~86	32~86	32~86	32~86	
Operation temperature	°C	17~30	17~30	17~30	17~30	17~30	17~30	
	°F	62~86	62~86	62~86	62~86	62~86	62~86	

Specification and data listed herein are subject to change without notice due to constant product and engineering improvements. Always refer to the equipment nameplate for applicable exact information. Ratings are based laboratory tests, performed in accordance with the applicable AHRI Standards for Variable Speed Mini Split Heat Pump Systems.

OUTDOOR SECTION MODEL NUMBERS AND SPECIFICATIONS:

Model		YN009GMFI22RPD	YN012GMFI22RPD	YN018GMFI22RPD	YN024GMFI22RPD	YN036GMFI17RUD	YN048GMFI17RUD	
Product Code		22022016005160	22022016005161	22022016005162	22022016005121	22022516000402	22022516000702	
Power supply	V-Ph-Hz	208-230V~ 60Hz, 1Ph	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	
Max. fuse	A	15	15	20	25	50	50	
Minimum circuit ampacity	A	10	12	15	18	30	35	
Compressor	Model	ASN98D22UFZ	ASM98D32UFZ	ASM135D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ420D1UMU	
	Type	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	
	Brand	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	
	Capacity	Btu/h	10014	11157	13836	24345	32823	44697
	Input	W	748	800	1035	1970	2570	3420
	Rated current (RLA)	A	5.5	6.8	10.5	12	22	23.5
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	EXTERNAL	EXTERNAL	INTERNAL
Refrigerant Oil	ml	ESTER OIL VG74/370	ESTER OIL VG74/370	ESTER OIL VG74/450	POE(VG74)670	ESTER OIL VG74/1000	ESTER OIL VG74/1400	
Model		ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-2	
Outdoor fan motor	Qty	1	1	1	1	1	2	
	Input	W	40(Output)	40(Output)	50(Output)	120(Output)	120(Output)	
	RLA	A	0.4	0.4	0.6	0.6	0.39	
	Speed	r/min	800	800	810	810	950	900
Outdoor air flow (Max.)	m ³ /h	1800	1900	2500	4000	4300	7600	
Outdoor air flow (Max.)	CFM	1060	1120	1470	2354	2530	4470	
Outdoor noise level	dB(A)	56	58	60	61	66	62.5	
Throttle type		Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	
Outdoor unit	Dimension (WxDxH)	mm	770 x 300 x 555	800 x 333 x 554	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333
	Dimension (WxDxH)	inch	30"-3/8 x 11"-3/4 x 21"-3/4	31"-1/2 x 13"-1/8 x 21"-3/4	33"-1/4 x 14"-3/8 x 27"-5/8	37"-1/4 x 16"-1/8 x 31"-7/8	37"-1/4 x 16"-1/8 x 31"-7/8	37"-1/2 x 16"-3/8 x 52"-1/2
	Packing (WxDxH)	mm	900 x 345 x 585	920 x 390 x 615	965 x 395 x 755	1090 x 500 x 865	1090 x 500 x 865	1095 x 495 x 1480
	Packing (WxDxH)	inch	35"-3/8 x 13"-1/2 x 23"	36"-1/4 x 15"-3/8 x 24"-1/4	38" x 15"-1/2 x 29"-3/4	42"-7/8 x 19"-5/8 x 34"	42"-7/8 x 19"-5/8 x 34"	43"-1/8 x 19"-1/2 x 58"-1/4
	Net/ Gross weight	kg	28 / 30.3	34.8 / 37.5	43.2 / 46.5	62 / 67.4	67.4 / 73	98.6 / 111.6
	Net/ Gross weight	lbs.	62 / 66.5	76.5 / 82.5	95 / 102.5	136.5 / 148.5	148.5 / 161	217.5 / 246
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	
	Charged volume	Ozs	38.8	40.6	68.8	82.9	108.0	148.2
	Max piping without adding	Feet	25	25	25	25	25.0	25.0
	Add per additional feet after	Ozs	0.16	0.16	0.16	0.32	0.3	0.3
Design pressure	PSIG	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	
Refrigerant piping	Liquid side / Gas side	mm(inch)	Φ6.35 / Φ12.7 (1/4" / 3/8)	Φ6.35 / Φ12.7 (1/4" / 1/2")	Φ6.35 / Φ12.7 (1/4" / 1/2")	Φ9.52 / Φ15.9 (3/8" / 5/8")	Φ9.52 / Φ15.9 (3/8" / 5/8")	Φ9.52 / Φ15.9 (3/8" / 5/8")
	Max. pipe length	m	25	25	30	50	65	65 Max. pipe
	length	ft	82	82	98	164	213	213 Max.
	difference in level	m	10	10	20	25	30	30 Max.
	difference in level	ft	33	33	66	82	98	98
Outdoor Ambient Temperature	Cooling Mode	°C	-25~50	-25~50	-25~50	-25~50	-15~50	-15~50
		°F	-13~122	-13~122	-13~122	-13~122	5~122	5~122
	Heating Mode	°C	-25~30	-25~30	-25~30	-25~30	-15~30	-15~30
	°F	-13~86	-13~86	-13~86	-13~86	5~86	5~86	

EACH SYSTEM CONSISTS OF ONE INDOOR AND ONE OUTDOOR SECTION WITH SAME CAPACITY

System Model	CYB009GMFILCAD	CYB012GMFILCAD	CYB018GMFILCAD	CYB024GMFILCAD	CYB036GMFILCBD	CYB048GMFILCBD
System Matchup	Indoor Unit Model CB009GMFILCFHD Outdoor Unit Model YN009GMFI22RPD	Indoor Unit Model CB012GMFILCFHD Outdoor Unit Model YN012GMFI22RPD	Indoor Unit Model CB018GMFILCFHD Outdoor Unit Model YN018GMFI22RPD	Indoor Unit Model CB024GMFILCFHD Outdoor Unit Model YN024GMFI22RPD	Indoor Unit Model CB036GMFILCFHD Outdoor Unit Model YN036GMFI17RUD	Indoor Unit Model CB048GMFILCFHD Outdoor Unit Model YN048GMFI17RUD

SYSTEM PERFORMANCES BASED ON LABORATORY TESTS UNDER APPLICABLE TESTING STANDARDS. ALWAYS REFER TO THE EQUIPMENT NAMEPLATE FOR EXACT REQUIREMENTS. CONTINUING ENGINEERING RESEARCH RESULTS IN STEADY IMPROVEMENTS. THEREFORE, THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.