

PIONEER®

Air Conditioning & Heat Pump Systems

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

FYB-M22

DC INVERTER++ SPECIFICATIONS

(DC Inverter Heat Pump)

Floor Console Mount Split Systems

(9,000 through 12,000 BTU/Hr.)

20.0~20.5 SEER - DC Inverter++



STANDARD ACCESSORIES:
• LCD WIRELESS CONTROLLER

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

AVAILABLE REFRIGERANTS:
• F : R410A ONLY



STANDARD FEATURES

- DESIGNED FOR VERTICAL FLOOR MOUNTED INSTALLATION
- COOLING ONLY OR HEAT PUMP APPLICATIONS
- ULTRA SLIM FULLY CASED COMPACT CABINET DESIGN
- FLOOR MOUNTED OR LOW WALL ATTACHED POSITIONS
- FULL ABS PLASTIC CASING FOR INDOOR UNITS
- AUTO SWEEP 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 INTERNAL 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

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FYB-M22 Series Product Line Up

PARKER DAVIS HVAC SYSTEMS, INC.,

2260 NW 102nd, Place, Doral, Florida 33172 - U.S.A.

Tel: (305) 513-4488 - Fax: (305) 513-4499

Web Site: www.pd-hvac.com - email: info@pd-hvac.com



INDOOR SECTION MODEL NUMBERS AND SPECIFICATIONS:

Model			FB009GMFILCFHD	FB012GMFILCFHD
Product Code			22022711000996	22022711000421
Power supply		V-ph-Hz	208-230~1-60	208-230~1-60
Cooling	Capacity	Btu/h	9000	12000
	SEER		20.0	20.5
	EER	Btu/W	12.5	13.0
Heating	Capacity	Btu/h	10000	12000
	HSPF4		10.5	10.0
Indoor fan motor	Model		ZKFP-20-8-2	ZKFP-20-8-2
	Qty		1	1
	Power	W	20(Output)	20(Output)
	RLA	A	0.9	1
	Speed	r/min	710 / 650 / 550 / 450	810 / 780 / 680 / 530
Indoor air flow (Hi/Med/Lo)		m ³ /h	542 / 461 / 344	546 / 469 / 357
Indoor air flow (Hi/Med/Lo)		CFM	319 / 271 / 202	321 / 276 / 201
Indoor noise level (Hi/Med/Low)		dB(A)	41 / 38 / 31	48 / 46 / 37
Indoor unit	Dimension (WxDxH)	mm	700 x 600 x 210	700 x 600 x 210
	Dimension (WxDxH)	inch	27"-1/2 x 23"-5/8 x 8"-1/4	27"-1/2 x 23"-5/8 x 8"-1/4
	Packing (WxDxH)	mm	810 x 710 x 305	810 x 710 x 305
	Packing (WxDxH)	inch	31"-7/8 x 28" x 12"	31"-7/8 x 28" x 12"
	Net/Gross weight	kg	13.5 / 18.2	15.4 / 20.1
	Net/Gross weight	lbs.	30 / 40	34 / 44
Design pressure		PSIG	550 / 340 PSIG	550 / 340 PSIG
Drainage water pipe diameter		mm	OD Φ25	OD Φ25
		Inch	1"	1"
Refrigerant piping	Liquid side/ Gas side	mm	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 12.7
		Inch.	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 1/2"
Controller			LCD Wired Remote	LCD Wired Remote
Room temperature	Cooling	°C	17~32	17~32
	Cooling	°F	62~90	62~90
	Heating	°C	0~30	0~30
	Heating	°F	32~86	32~86
Operation temperature		°C	17~30	17~30
		°F	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
Product Code			22022016005160	22022016005161
Power supply		V- Ph-Hz	208-230V~ 60Hz, 1Ph	208-230~1-60
Max. fuse		A	15	15
Minimum circuit ampacity		A	10	12
Compressor	Model		ASN98D22UFZ	ASM98D32UFZ
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	10014	11157
	Input	W	748	800
	Rated current (RLA)	A	5.5	6.8
	Thermal protector position		INTERNAL	---
	Refrigerant Oil	ml	ESTER OIL VG74/370	ESTER OIL VG74/370
Outdoor fan motor	Model		ZKFN-40-8-1L	ZKFN-40-8-1L
	Qty		1	1
	Input	W	40(Output)	40(Output)
	RLA	A	0.4	0.4
	Speed	r/min	800	800
Outdoor air flow (Max.)		m ³ /h	1800	1900
Outdoor air flow (Max.)		CFM	1060	1120
Outdoor noise level		dB(A)	56	58
Throttle type			Capillary +EXV	Capillary +EXV
Outdoor unit	Dimension (WxDxH)	mm	770 x 300 x 555	800 x 333 x 554
	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
	Packing (WxDxH)	mm	900 x 345 x 585	920 x 390 x 615
	Packing (WxDxH)	inch	35"-3/8 x 13"-1/2 x 23"	36"-1/4 x 15"-3/8 x 24"-1/4
	Net/ Gross weight	kg	28 / 30.3	34.8 / 37.5
	Net/ Gross weight	lbs.	62 / 66.5	76.5 / 82.5
Refrigerant	Type		R410A	R410A
	Charged volume	Ozs	38.8	40.6
	Max piping without adding	Feet	25	25
	Add per additional feet after	Ozs	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340
Refrigerant piping	Liquid side / Gas side	mm(inch)	Φ6.35 / Φ9.52 (1/4" / 3/8)	Φ6.35 / Φ12.7 (1/4" / 1/2")
	Max. pipe length	m	25	25
	Max. pipe length	ft	82	82
	Max. difference in level	m	10	10
	Max. difference in level	ft	33	33
Outdoor Ambient Temperature	Cooling Mode	°C	-25~50	-25~50
	Cooling Mode	°F	-13 ~ 122	-13 ~ 122
	Heating Mode	°C	-25~30	-25~30
	Heating Mode	°F	-13 ~ 86	-13 ~ 86

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

System Matchup		FYB009GMFILCAD	FYB012GMFILCAD
	Indoor Unit Model	FB009GMFILCFHD	FB012GMFILCFHD
	Outdoor Unit Model	YN009GMFI22RPD	YN012GMFI22RPD

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.