

PIONEER®

Air Conditioning & Heat Pump Systems

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

UYB-M22

DC INVERTER++ SPECIFICATIONS

(DC Inverter Heat Pump)

Floor / Ceiling / Low Wall Split Systems

(18,000 through 48,000 BTU/Hr.)

16.0~20.0 SEER - DC Inverter++



Mod. 012~018



Mod. 024~036



Mod. 048



STANDARD ACCESSORIES:
• LCD WIRELESS CONTROLLER



OPTIONAL ACCESSORIES:
• LCD DIGITAL WIRED REMOTE

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

AVAILABLE REFRIGERANTS:
• F : R410A ONLY



STANDARD FEATURES

- DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATION
- COOLING ONLY OR HEAT PUMP APPLICATIONS
- ULTRA SLIM FULLY CASED COMPACT CABINET DESIGN
- FLOOR, LOW WALL OR CEILING SUSPENDED POSITIONS
- FULL GALVANIZED HEAVY STEEL 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

PIONEER®
Air Conditioning & Heat Pump Systems

UYB-M22 Series Product Line Up

PARKER DAVIS HVAC SYSTEMS, INC.

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INDOOR SECTION MODEL NUMBERS AND SPECIFICATIONS:

Model			UB018GMFILCFHD	UB024GMFILCFHD	UB036GMFILCFHD	UB048GMFILCFHD
Product Code			22022711000996	22022711000421	22022711000659	22022711000658
Power supply	V-ph-Hz		208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60
Cooling	Capacity	Btu/h	18000	24000	36000	48000
	SEER		20.0	20.0	16.0	17.8
	EER	Btu/W	12.5	12.5	8.0	9.3
Heating	Capacity	Btu/h	18000	24000	38000	50000
	HSPF4		10.5	11.0	10.0	11.0
Indoor fan motor	Model		ZKFN-55-8-1	ZKFN-55-8-1	ZKFN-115-8-1	ZKFN-90-8-1
	Qty		1	1	1	2
	Power	W	55	55	115	90
	RLA	A	1.5	2	1.5	1.8
	Speed	r/min	950 / 850 / 750	1350 / 1260 / 1120	1300 / 1150 / 800	1320 / 1200 / 1120
Indoor air flow (Hi/Med/Lo)	m ³ /h	982 / 885 / 790	1290 / 1180 / 1070	1762 / 1470 / 1150	2300 / 1900 / 1700	
Indoor air flow (Hi/Med/Lo)	CFM	578 / 520 / 465	759 / 695 / 630	1037 / 865 / 680	1350 / 1120 / 1000	
Indoor noise level (Hi/Med/Low)	dB(A)	47 / 44 / 39	53 / 48 / 42	54 / 49 / 43	57 / 54 / 52	
Indoor unit	Dimension (WxDxH)	mm	1068 x 675 x 235	1068 x 675 x 235	1285 x 675 x 235	1650 x 675 x 235
	Dimension (WxDxH)	inch	42" x 26"-1/2 x 9"-1/4	42" x 26"-1/2 x 9"-1/4	50"-1/2 x 26"-1/2 x 9"-1/4	65" x 26"-1/2 x 9"-1/4
	Packing (WxDxH)	mm	1145 x 755 x 313	1145 x 755 x 313	1360 x 755 x 313	1725 x 755 x 313
	Packing (WxDxH)	inch	45" x 29"-3/4 x 12"-3/8	45" x 29"-3/4 x 12"-3/8	53"-1/2 x 29"-3/4 x 12"-3/8	68" x 29"-3/4 x 12"-3/8
	Net/ Gross weight	kg	25 / 29.7	26.5 / 31.4	31.3 / 37	38 / 44
	Net/ Gross weight	lbs.	55 / 65.5	58.5 / 69	69 / 81.5	84 / 97
Design pressure	PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	
Drainage water pipe diameter	mm		OD Φ25	OD Φ25	OD Φ25	OD Φ25
	Inch		1"	1"	1"	1"
Refrigerant piping	Liquid side/ Gas side	mm	Φ 6.35 / Φ 12.7	Φ 9.52 / Φ 15.9	Φ 9.52 / Φ 15.9	Φ 9.52 / Φ 15.9
		Inch.	Φ 1/4" / Φ 1/2"	Φ 3/8" / Φ 5/8"	Φ 3/8" / Φ 5/8"	Φ 3/8" / Φ 5/8"
Controller		LCD Wired Remote	LCD Wired Remote	LCD Wired Remote	LCD Wired Remote	
Room temperature	Cooling	°C	17~32	17~32	17~32	17~32
	Cooling	°F	62~90	62~90	62~90	62~90
	Heating	°C	0~30	0~30	0~30	0~30
	Heating	°F	32~86	32~86	32~86	32~86
Operation temperature	°C	17~30	17~30	17~30	17~30	
	°F	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			YN018GMFI22RPD	YN024GMFI22RPD	YN036GMFI17RUD	YN048GMFI17RUD
Product Code			22022016005162	22022016005121	22022516000402	22022516000702
Power supply	V-Ph-Hz		208-230~1-60	208-230~1-60	208-230~1-60	208-230~1-60
Max. fuse	A		20	25	50	50
Minimum circuit ampacity	A		15	18	30	35
Compressor	Model		ASM135D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ420D1UMU
	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h	13836	24345	32823	44697
	Input	W	1035	1970	2570	3420
	Rated current (RLA)	A	10.5	12	23.5	23.5
	Thermal protector position		INTERNAL	EXTERNAL	EXTERNAL	INTERNAL
Refrigerant Oil	ml	ESTER OIL VG74/450	POE(VG74)/670	ESTER OIL VG74/1000	Ester Oil VG74/1400	
Outdoor fan motor	Model		ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22
	Qty		1	1	1	2
	Input	W	50(Output)	120(Output)	120(Output)	85(Output)
	RLA	A	0.6	0.6	1	0.39
	Speed	r/min	810	810	950	900
Outdoor air flow (Max.)	m ³ /h	2500	4000	4300	7600	
Outdoor air flow (Max.)	CFM	1470	2354	2530	4470	
Outdoor noise level	dB(A)	60	61	66	62.5	
Throttle type		Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	
Outdoor unit	Dimension (WxDxH)	mm	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333
	Dimension (WxDxH)	inch	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	965 x 395 x 755	1090 x 500 x 865	1090 x 500 x 865	1095 x 495 x 1480
	Packing (WxDxH)	inch	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	43.2 / 46.5	62 / 67.4	67.4 / 73	98.6 / 111.6
	Net/ Gross weight	lbs.	95 / 102.5	136.5 / 148.5	148.5 / 161	217.5 / 246
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charged volume	Ozs	68.8	82.9	108.0	148.2
	Max piping without adding	Feet	25	25	25.0	25.0
	Add per additional feet after	Ozs	0.16	0.32	0.3	0.3
Design pressure	PSIG	550 / 340	550 / 340	550 / 340	550 / 340	
Refrigerant piping	Liquid side / Gas side	mm(inch)	Φ9.52 / Φ15.9 (3/8" / 5/8")	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	30	50	65	65
	Max. pipe length	ft	98	164	213	213
	Max. difference in level	m	20	25	30	30
	Max. difference in level	ft	66	82	98	98
Outdoor Ambient Temperature	Cooling Mode	°C	-25~50	-25~50	-15~50	-15~50
		°F	-13 ~ 122	-13 ~ 122	5 ~ 122	5 ~ 122
	Heating Mode	°C	-25~30	-25~30	-15~30	-15~30
		°F	-13 ~ 86	-13 ~ 86	5 ~ 86	5 ~ 86

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

System Matchup	SYSTEM MODEL	UYB018GMFILCAD	UYB024GMFILCAD	UYB036GMFILCBD	UYB048GMFILCBD
	Indoor Unit Model	UB018GMFILCFHD	UB024GMFILCFHD	UB036GMFILCFHD	UB048GMFILCFHD
	Outdoor Unit Model	YN018GMFI22RPD	YN024GMFI22RPD	YN036GMFI17RUD	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.