

PIONEER®

Air Conditioning & Heat Pump Systems

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

WYS-22

20.5~22.8 SEER SPECIFICATIONS

Ultra High Efficiency, DC Inverter ++ Heat Pump

Ductless Wall Mount Split Systems

Single Zone (9,000 through 24,000 BTU/Hr.)

PIONEER®
Air Conditioning & Heat Pump Systems

WYS-22 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



AVAILABLE VOLTAGES:

- A : 110~120/1/60 (009-012)
- G : 208~230/1/60 (009-024)

AVAILABLE REFRIGERANTS:

- F : R410A

OPTIONAL COLOR PANELS:

- GOLD ACRYLIC PANEL
- RUBY RED ACRYLIC PANEL
- SILVER ACRYLIC PANEL

ACCESSORIES:

- PIPING AND WIRING KIT
- CONDENSER STAND KIT
- ACRYLIC COLOR PANELS
- WIFI CLOUD PROGRAMMING
- LOW HEAT (ANTIFROST MODE)
- LINE COVER KIT

OPTIONAL AIR FILTERS:

- ACTIVE CHARCOAL FILTER (For Deodorizing)
- CATECHIN FILTER (Anti Viral Air Treatment)
- PHOTO CATALYZER FILTER (Anti Biotic and Odor Remover)
- 3M H.A.F. FILTER (Absorbs Super Fine Particles)
- VITAMIN ENRICHMENT FILTER (Creates Healthy Air)



22 SEER FAMILY
Ultra High Efficiency
DC INVERTERS



STANDARD FEATURES

- DIGITAL BACKLIT LED DISPLAY ON FRONT PANEL
- DESIGNED FOR STANDARD WALL HUNG INSTALLATION
- REVERSE CYCLE / HEAT PUMP APPLICATION
- LATEST DESIGN ATTRACTIVE ACRYLIC FLAT PANEL
- FULL ABS PLASTIC CASING FOR INDOOR UNITS
- REMOVABLE FLIP OPEN STYLE FRONT PANEL COVER
- WASHABLE RETURN AIR FILTER CARTRIDGES
- ANTI DISCOLORATION FORMULATED PLASTIC DYES
- MULTITUDE OF OPTIONAL AIR PURIFYING OPTIONS
- LCD SCREEN INFRARED ELECTRONIC CONTROL
- 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 LOGIC
- AUTOMATIC SYNCHRONIZED DISCHARGE LOUVER
- THREE + AUTO SPEED DIGITAL EC/DC 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
- SUPERIOR EFFICIENCY RATING UNDER VARIETY OF CONDITIONS
- DYNAMICALLY BALANCED ULTRA QUIET CROSSFLOW BLOWER
- ANTI MILDEW TREATMENT ON BLOWER WHEELS
- INTERNAL NOISE AND VIBRATION ISOLATION
- HIGH OUTPUT & QUIET VARIABLE SPEED COMPRESSORS
- VERY LOW STARTING CURRENT
- LARGE CAPACITY SUCTION ACCUMULATORS
- ULTRA GALVANIZED SHEET METAL PARTS
- HEAVY COAT OF BAKED ENAMEL PAINT FOR THE OUTDOOR UNIT
- DURABLE OUTDOOR FAN WITH HIGH GLASS CONTENT
- EFFICIENT, PERMANENTLY LUBRICATED EC/DC OUTDOOR MOTOR
- INTERNAL OVERLOAD PROTECTION FOR MOTORS
- FLARE TYPE REFRIGERANT CONNECTIONS
- FULL OPERATING CHARGE OF REFRIGERANT
- STANDARDIZED CABINET DESIGN FOR ALL MODELS
- PIPING AND WIRING THROUGH BOTTOM, SIDES OR REAR OF UNIT
- HIGHEST GRADE COMPONENTS FOR LONG LIFE EXPECTANCY
- AMPLE AVAILABILITY OF SPARE PARTS AND ACCESSORIES

System Model Number (S Series, 22 Seer Family)		WYS009AMFI22RL	WYS12AMFI22RL	WYS009GMFI22RL	WYS012GMFI22RL	WYS018GMFI22RL	WYS024GMFI22RL	
System Product Code		22022010003672	22022010003774	22022010004162	22022010003635	22022010003652	22022010003574	
Indoor Model Number		WS009AMFI22HLD	WS012AMFI22HLD	WS009GMFI22HLD	WS012GMFI22HLD	WS018GMFI22HLD	WS024GMFI22HLD	
Indoor Product Code		22022011004180	22022011004280	22022011004687	22022011004161	22022011004162	22022011004100	
Outdoor Model Number		YN009AMFI22RPD	YN012AMFI22RPD	YN009GMFI22RPD	YN012GMFI22RPD	YN018GMFI22RPD	YN024GMFI22RPD	
Outdoor Product Code		22022016005179	22022016005149	22022016005160	22022016005161	22022016005162	22022016005121	
Power supply		Ph-V-Hz 115V-60Hz,1Ph	115V-60Hz,1Ph	208-230V-60Hz,1Ph	208-230V-60Hz,1Ph	208-230V-60Hz,1Ph	208-230V-60Hz,1Ph	
Cooling	Capacity	BTU/h	9000 (3785-11941)	12000 (4520-17305)	9000 (3785-11941)	12000 (4520-17305)	18000 (7592-24806)	24000 (7401-31350)
	Input	Watt	665 (279-901)	960 (345-1296)	640 (251-889)	923 (325-1283)	1384 (542-1951)	1920 (673-2726)
	Rated current	A	5.8	8.4	2.9	4.1	6.1	8.4
	EER	W/W	13.5	12.5	14	13	13	12.5
	SEER	BTU/W	22.5	21.5	22.8	21.5	20.8	20.5
Heating	Capacity	BTU/h	9000 (3785-11941)	11800 (4483-17214)	9800 (3891-12493)	12000 (4520-17305)	18000 (7592-24806)	25000 (7621-31483)
	Input	W	790 (365-1035)	1120 (508-1423)	930 (541-1235)	1085 (495-1447)	1570 (731-2149)	2315 (1052-3154)
	Rated current	A	6.9	9.8	4.2	4.7	6.8	10.1
	COP	W/W	3.6	3.1	3.1	3.2	3.4	3.2
	HSPF4	BTU/h	10.5	11.2	10.5	9.8	10	10
HSPF5	BTU/h	8.6	9	8.3	7.7	8	8.3	
MINIMUM CIRCUIT AMPACITY		A	15	15	15	15	15	
MAX.FUSE		A	15	20	15	20	25	
Moisture Removal		L/h	1	1.2	1	1.2	1.8	
		Pint/Day	50	60	50	60	120	
Compressor	Model		ASN98D22UFZ	ASM98D32UFZ	ASN98D22UFZ	ASM98D32UFZ	ASM135D32UFZ	ATF235D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	BTU/h	10014	11157	10014	11157	13836	24344
	Input	W	748	800	748	800	1035	1970
Refrigerant Oil Type			ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	
Refrigerant Oil / Oil Charge		ml (Oz)	370 (12.5)	370 (12.5)	370 (12.5)	450 (15.2)	670 (22.6)	
Indoor Fan Motor	Model		ZKFP-20-8-5	ZKFP-20-8-5	ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-58-8-1	ZKFN-120-8-2
	Brand		Welling	Welling	Welling	Welling	Welling	Welling
	Power	W	20(Output)	20(Output)	20(Output)	20(Output)	58(Output)	120(Output)
	Speed (Hi / Md / Lo)	r / min	1080 / 850 / 700	1080/850/650	1080/850/700	1080/850/650	1000/800/700	1100/900/700
Indoor Air Flow (Hi / Md / Lo)	m3 / h	500 / 360 / 250	520 / 360 / 250	450 / 348 / 240	520 / 360 / 250	950 / 620 / 520	1050 / 800 / 550	
	CFM	294 / 212 / 147	306 / 212 / 147	265 / 205 / 141	306 / 212 / 147	559 / 365 / 306	617 / 471 / 324	
Indoor Noise Level (Hi / Lo)		dB(A)	37.5 / 23	36 / 23	39 / 24.5	39 / 25	45.5 / 34.5	50 / 35.5
Indoor unit	Dimension(W*D*H)	mm	802 x 189 x 297	802 x 189 x 297	802 x 189 x 297	802 x 189 x 297	1080 x 226 x 335	1080 x 226 x 335
	Dimension(W*D*H)	In.	31"-1/2 x 7"-1/2 x 11"-5/8	31"-1/2 x 7"-1/2 x 11"-5/8	31"-1/2 x 7"-1/2 x 11"-5/8	31"-1/2 x 7"-1/2 x 11"-5/8	42"-1/2 x 8"-7/8 x 13"-1/8	42"-1/2 x 8"-7/8 x 13"-1/8
	Packing (W*D*H)	mm	875 x 285 x 375	875 x 285 x 375	875 x 285 x 375	875 x 285 x 375	1155 x 415 x 315	1155 x 415 x 315
	Packing (W*D*H)	In.	34"-1/2 x 11"-1/4 x 14"-3/4	34"-1/2 x 11"-1/4 x 14"-3/4	34"-1/2 x 11"-1/4 x 14"-3/4	34"-1/2 x 11"-1/4 x 14"-3/4	45"-1/2 x 16"-3/8 x 12"-1/2	45"-1/2 x 16"-3/8 x 12"-1/2
	Net/Gross weight	Kg	8.2 / 10	8.2 / 10	8.2 / 10	8.2 / 10	13.2 / 16.8	13.2 / 16.8
Net/Gross weight	Lbs	18 / 22	18 / 22	18 / 22	18 / 22	29 / 37	29 / 37	
Outdoor fan motor	Model		ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-50-8-2	ZKFN-120-8-2
	Brand		Welling	Welling	Welling	Welling	Welling	Welling
	Power	W	40 (Output)	40 (Output)	40 (Output)	40 (Output)	50 (Output)	120 (Output)
Outdoor Air Flow		m3 / h	1800	1900	1800	1900	2500	4000
Outdoor Air Flow		CFM	1060	1120	1060	1120	1470	2355
Outdoor Noise Level (High Speed)		dB(A)	52.5	52.5	55.5	57.5	61	61
Outdoor Unit	Dimension (W*D*H)	mm	770 x 300 x 555	800 x 333 x 554	770 x 300 x 555	800 x 333 x 554	845 x 363 x 702	946 x 420 x 810
	Dimension (W*D*H)	In.	30"-3/8 x 11"-7/8 x 21"-7/8	31"-1/2 x 13"-1/8 x 21"-3/4	30"-3/8 x 11"-7/8 x 21"-7/8	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"-1/2 x 31"-7/8
	Packing (W*D*H)	mm	900 x 345 x 585	920 x 390 x 615	900 x 345 x 585	920 x 390 x 615	965 x 395 x 755	1090 x 500 x 865
	Packing (W*D*H)	In.	35"-3/8 x 13"-5/8 x 23"	36"-1/4 x 15"-3/8 x 24"-1/4	35"-3/8 x 13"-5/8 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"
	Net / Gross Weight	Kg	29 / 31.5	37 / 40	29 / 31.5	37 / 40	45.8 / 49.1	62 / 66.8
Net / Gross Weight	Lbs.	64 / 69.5	81.5 / 88	64 / 69.5	81.5 / 88	101 / 108	136.5 / 147	
Refrigerant Type		g	R410A / 1100g	R410A / 1150g	R410A / 1100g	R410A / 1150g	R410A / 1950g	R410A / 2350g
Refrigerant Precharge for Tubing Length		Ozs	R410A / 38.8	R410A / 40.6	R410A / 38.8	R410A / 40.6	R410A / 68.8	R410A / 82.9
Additional Charge for Each Additional Feet		Fl.	25	25	25	25	25	
Design Test Pressure		Ozs	0.16	0.16	0.16	0.16	0.32	
Design Test Pressure		MP (PSIG)	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	
Refrigerant piping	Liquid Side/ Gas Side	mm (In.)	Φ6.35 / Φ9.52 (1/4" / 3/8")	Φ6.35 / Φ12.7 (1/4" / 1/2")	Φ6.35 / Φ9.52 (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")
	Max. Piping Length	m	25	25	25	25	30	
		Fl.	80	80	80	80	100	
	Max Level Difference	m	10	10	10	10	20	
	Fl.	33	33	33	33	65		
Connection Wiring			16AWG*4 Stranded, Unshielded	16AWG*4 Stranded, Unshielded	16AWG*4 Stranded, Unshielded	16AWG*4 Stranded, Unshielded	16AWG*4 Stranded, Unshielded	
System Controller			Digital Wireless	Digital Wireless	Digital Wireless	Digital Wireless	Digital Wireless	
Operation Temperature Range	Indoor Temperature Setting (Cooling / Heating)	°C	17 ~ 32	17 ~ 32	17 ~ 32	17 ~ 32	17 ~ 32	
		°F	62 ~ 90	62 ~ 90	62 ~ 90	62 ~ 90	62 ~ 90	
	Frost Prevention Mode / Indoor Low Heat Setting	°C	8	8	8	8	8	
		°F	46	46	46	46	46	
	Outdoor Ambient Range (Cooling / Heating)	°C	0 ~ 50 / -15 ~ 30	0 ~ 50 / -15 ~ 30	0 ~ 50 / -15 ~ 30	0 ~ 50 / -15 ~ 30	0 ~ 50 / -15 ~ 30	
	°F	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86		
Recommended Application Area (Est.)		m2	18 ~ 28	28 ~ 37	18 ~ 28	28 ~ 37	37 ~ 56	
		Sq. Ft	200 ~ 300	300 ~ 400	200 ~ 300	300 ~ 400	400 ~ 600	
Loadable Quantity 20' /40' /40'HQ		Sets	105 / 220 / 248	85 / 185 / 215	105 / 220 / 248	85 / 185 / 215	67 / 138 / 150	

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 Single Zone Heat Pump Systems