

PIONEER®

Air Conditioning & Heat Pump Systems

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

YN-M22 Series SPECIFICATIONS

Heat Pump Multi Zone DC Inverter ++
Ultra High Efficiency MULTI ZONE Systems

Two, Three, Four and Five Zones
Five matching indoor unit styles



AVAILABLE VOLTAGES:
• G : 208-230/1/60 (All)

AVAILABLE REFRIGERANTS:
• F : R410A

AVAILABLE INDOOR CAPACITIES:
• 009 : 9,000 BTU/h
• 012 : 12,000 BTU/h
• 018 : 18,000 BTU/h
• 024 : 24,000 BTU/h

AVAILABLE INDOOR STYLES:
• WS : WALL MOUNT
• CB : CEILING CASSETTE
• RB : CONCEALED DUCT
• UB : FLOOR-CEILING
• FB : FLOOR CONSOLE



WS : WALL MOUNT

CB : CEILING CASSETTE

RB : CONCEALED DUCT

UB : FLOOR-CEILING

FB : FLOOR CONSOLE

DUAL (2) ZONE

TRIPLE (3) ZONE

QUAD (4) ZONE

QUINT (5) ZONE

STANDARD FEATURES (INDOOR UNITS):

- FIVE MODELS (WALL, DUCTED, CASSETTE, CEILING, FLOOR)
- FOUR CAPACITY OPTIONS (9,000 / 12,000 / 18,000 / 24,000 BTU)
- WIRELESS AND WIRED DIGITAL REMOTE CONTROLLERS
- COOL, HEAT, AUTO, FAN ONLY AND DEHUMIDIFICATION MODES
- PERMANENT WASHABLE RETURN AIR FILTERS
- ULTRA MODERN DESIGNS
- HIGH EFFICIENCY VARIABLE SPEED FAN MOTORS
- SELF ADJUSTING COOLING & HEATING CAPACITY CONTROLS
- STANDARD DIGITAL 4 LEAD CONTROL CIRCUITRY
- MIX INDOOR UNIT MODELS AND TYPES TO MATCH ANY DECOR
- MIX INDOOR UNIT CAPACITIES FOR EACH ZONE'S HEAT LOAD
- GROOVED COPPER TUBE, HYDROPHILIC ALUMINUM FIN COIL
- QUIET BUT POWERFUL BLOWER SYSTEM
- PERMANENTLY LUBRICATED FAN MOTOR W/ BALL BEARINGS
- ELECTRONIC MOTOR CONTROLLER
- RUST FREE CONDENSATE DRAIN PAN
- MULTIPLE POWER AND CONTROL WIRING KNOCKOUTS
- VARIOUS ACCESSORIES TO MATCH EACH MODEL TYPE
- OPTIONAL ENTRALIZED CONTROLLER
- OPTIONAL DIGITAL PROGRAMMABLE THERMOSTATS

STANDARD FEATURES (OUTDOOR UNITS):

- AVAILABLE IN 2, 3, 4 and 5 ZONE VERSIONS.
- ULTRA HIGH EFFICIENCY DC INVERTER ++ VERSIONS
- ULTRA HIGH FULL LOAD AND PARTIAL LOAD EFFICIENCIES
- COOLING AND HEATING FUNCTIONS DOWN TO -13 F AMBIENT
- QUIET AND HIGHLY EFFICIENT MAJOR BRAND COMPRESSOR
- HEAVY GAUGE ZINK COATED GALVANIZED STEEL CASING
- DURABLE POLYESTER-URETHANE PAINT
- CLEAN LOOKING LIGHT BEIGE COLOR
- HIGH EFFICIENCY VARIABLE SPEED ECM FAN MOTOR
- PERMANENTLY LUBRICATED FAN MOTOR WIT BALL BEARINGS
- AXIAL FLOW FAN(S) WITH HIGH AIR VOLUME
- ELECTRONIC EXPANSION VALVES FOR EACH CIRCUIT
- PLASTIC COATED WIRE FAN GUARD
- GROOVED COPPER TUBE, HYDROPHILIC ALUMINUM FIN COIL
- WHISPER QUIET OPERATION
- SELF TRAINING INTELLIGENT DEFROST LOGIC
- FLARE TYPE BRASS SERVICE VALVES WITH PRESSURE PORTS
- FACTORY CHARGED FOR UP TO 25' LINE SET PER CIRCUIT
- STANDARDIZED CABINET DESIGN ACROSS MODELS
- ENVIRONMENTALLY FRIENDLY R410a REFRIGERANT

PIONEER®
Air Conditioning & Heat Pump Systems

YN-M22 Series Product Line Up

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A: OUTDOOR UNITS

Model		YN020GMFI22M2D	YN030GMFI22M3D	YN040GMFI22M4D	YN050GMFI22M5D	YN020GMFI22M2D	YN030GMFI22M3D	YN040GMFI22M4D	YN050GMFI22M5D		
Product Code		22022316000385	22022316000327	22022316000326	22022316000545	22022316000385	22022316000327	22022316000326	22022316000545		
Specs below are based on matching indoor units sample sets with		WS Wall Mounted Indoor Units (One WS009 unit per circuit)				RB Series Ducted Concealed Indoor Units (One RB009 unit per circuit)					
Power supply		Ph-V-Hz	208-230V ~ 60Hz , 1Ph	230V~ 60Hz, 1Ph	208-230V ~ 60Hz , 1Ph	208-230V ~ 60Hz , 1Ph	230V~ 60Hz, 1Ph	208-230V ~ 60Hz , 1Ph	208-230V ~ 60Hz , 1Ph		
Number of Circuits Available			2	3	4	5	2	3	4	5	
Cooling	Nominal Capacity	Btu/h	17000	27000	36000	48000	18000	27000	36000	48000	
	Min and Max. Capacity Range	Btu/h	4197~19900	6630~30600	8190~38500	9560~53500	3995~19476	8500~30400	5630~38510	8860~52000	
	Total Power Input Range	W	409~2003	670~3210	920~4325	855~4795	419~2028	690~3060	895~4150	845~4825	
	SEER	Btu/W	21.3	22.0	22.5	21.5	18.4	18.5	17.9	17.6	
	EER	W/W	12.5	12.0	10.9	11.6	11.8	11.0	10.0	10.1	
Heating	Nominal Capacity	Btu/h	18000	28000	36000	48000	18500	27000	36000	50000	
	Min and Max. Capacity Range	Btu/h	2225~23475	3690~32860	4940~38000	6850~53980	2539~24249	6290~36200	4960~42660	6480~54050	
	Total Power Input Range	W	347~2142	1400~3530	1070~2965	995~5160	379~2132	620~3270	950~3270	1015~5320	
	HSPF4	Btu/W	10	9.8	10.3	10.4	9.4	9.0	9.7	10.1	
	COP	W/W	3.7	3.7	3.1	3.4	3.8	3.5	3.2	3.4	
RATED Low temperature total heating capacity at 17°F (- 8.3°C)		Btu/h	11800	16800	25400	30800	11400	16200	22800	33000	
MAXIMUM Low temperature total heating capacity -5°F (-15°C)		Btu/h	14200	20900	28800	35800	14400	21000	28400	36800	
MINIMUM CIRCUIT AMPACITY		A	18.0	25.0	30.0	35.0	18.0	25.0	30.0	35.0	
MAX.FUSE		A	25.0	35.0	45.0	50.0	20.0	30.0	35.0	40.0	
Compressor	Model		ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU	ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU	
	Type		ROTARY	ROTARY	ROTARY	Twin-ROTARY	ROTARY	ROTARY	ROTARY	Twin-ROTARY	
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	
	Rated current (RLA)	A	10.00	20.00	22.00	21.00	10.00	20.00	22.00	21.00	
	Refrigerant oil / oil charge	ml	VG74/500	POE(VG74)/670	PQE(VG74)/1000	Ester Oil VG74/1400	VG74/500	POE(VG74)/670	PQE(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	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22	
	Brand		Shibaura	Welling	Welling	Welling	Shibaura	Welling	Welling	Welling	
	Quantity		1	1	1	2	1	1	1	2	
	Power	W	50(Output)	120(Output)	120(Output)	85(Output)	50(Output)	120(Output)	120(Output)	85(Output)	
	RLA	A	0.74	0.90	1.3	0.39	0.74	0.90	1.3	0.39	
Speed Range (Inverter Motor)		r/min	150 ~ 850	150 ~ 1000	150 ~ 1000	150 ~ 870	150 ~ 850	150 ~ 1000	150 ~ 1000	150 ~ 870	
Outdoor air flow (Max)		m³/h	2362	3619	3619	7646	2362	3619	3619	7646	
Outdoor air flow (Max)		CFM	1390	2130	2130	4500	1390	2130	2130	4500	
Outdoor noise level		dB(A)	62	63	62	64	62	63	62	64	
Outdoor unit	Dimension(W*D*H)	mm	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333	
	Dimension(W*D*H)	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	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 (W*D*H)	mm	965 x 395 x 755	1090 x 500 x 875	1090 x 500 x 875	1095 x 495 x 1480	965 x 395 x 755	1090 x 500 x 875	1090 x 500 x 875	1095 x 495 x 1480	
	Packing (W*D*H)	inch	38" x 15"-1/2 x 29"-3/4	42"-7/8 x 19"-5/8 x 34"-1/2	42"-7/8 x 19"-5/8 x 34"-1/2	43"-1/8 x 19"-1/2 x 58"-1/4	38" x 15"-1/2 x 29"-3/4	42"-7/8 x 19"-5/8 x 34"-1/2	42"-7/8 x 19"-5/8 x 34"-1/2	43"-1/8 x 19"-1/2 x 58"-1/4	
	Net/Gross weight	Kgs	48 / 52	68 / 73	71 / 76	101.5 / 115.7	48 / 52	68 / 73	71 / 76	101.5 / 115.7	
Net/Gross weight	Lbs.	106 / 115	150 / 161	156.5 / 167.5	224 / 255	106 / 115	150 / 161	156.5 / 167.5	224 / 255		
Refrigerant type		oz	R410A / 70.5	R410A / 98.8	R410A / 105.8	R410A / 162.3	R410A / 70.5	R410A / 98.8	R410A / 105.8	R410A / 162.3	
Refrigerant precharge (Total pipe length)		ft	25 x 2	25 x 3	25 x 4	25 x 5	25 x 2	25 x 3	25 x 4	25 x 5	
Additional charge for each ft		oz	0.16	0.16	0.16	0.32	0.16	0.16	0.16	0.32	
Design pressure		PSIG	540 / 300	540 / 300	540 / 340	540 / 340	540 / 300	540 / 300	540 / 340	540 / 340	
Refrigerant piping	Liquid side / Gas side (OD) Note: Fitting adapters are provided for size changes as necessary.		mm	Φ 6.35 / Φ 9.52 (2)	Φ 6.35 / Φ 9.52 (3)	Φ 6.35 / Φ 9.52 (3) Φ 6.35 / Φ 12.7 (1)	Φ 6.35 / Φ 9.52 (2)	Φ 6.35 / Φ 9.52 (3)	Φ 6.35 / Φ 9.52 (3) Φ 6.35 / Φ 12.7 (1)	Φ 6.35 / Φ 9.52 (3) Φ 6.35 / Φ 12.7 (2)	
			inch	Φ 1/4" / Φ 3/8" (2)	Φ 1/4" / Φ 3/8" (3)	Φ 1/4" / Φ 3/8" (3) Φ 1/4" / Φ 1/2" (1)	Φ 1/4" / Φ 3/8" (2)	Φ 1/4" / Φ 3/8" (3) Φ 1/4" / Φ 1/2" (1)	Φ 1/4" / Φ 3/8" (3) Φ 1/4" / Φ 1/2" (1)	Φ 1/4" / Φ 3/8" (3) Φ 1/4" / Φ 1/2" (2)	
	Max. length for all zones		m	30	45	60	75	30	45	60	75
	Max. length for all zones		ft	100	150	200	250	100	150	200	250
	Max. length for one indoor unit		m	20	25	30	30	20	25	30	30
	Max. length for one indoor unit		ft	65	80	100	100	65	80	100	100
	Max. height difference between indoor and outdoor unit		OU higher than IU	m	10	10	10	10	10	10	10
			OU higher than IU	ft	33	33	33	33	33	33	33
			OU lower than IU	m	15	15	15	15	15	15	15
			OU lower than IU	ft	50	50	50	50	50	50	50
Max. height difference between indoor units		m	10	10	10	10	10	10	10	10	
Max. height difference between indoor units		ft	33	33	33	33	33	33	33	33	
Ambient temperature	cooling		°C	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50
	cooling		°F	5~122	5~122	5~122	5~122	5~122	5~122	5~122	5~122
	heating		°C	-25 ~ 30	-25 ~ 30	-25 ~ 30	-25 ~ 30	-25 ~ 30	-25 ~ 30	-25 ~ 30	-25 ~ 30
	heating		°F	-13 ~ 86	-13 ~ 86	-13 ~ 86	-13 ~ 86	-13 ~ 86	-13 ~ 86	-13 ~ 86	-13 ~ 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 Multi Zone Heat Pump Systems.

MULTI SPLIT SYSTEM / INDOOR UNITS COMBINATION TABLE

Multi Split System DC Inverter Outdoor Units		Matching Indoor Unit Types	Rating Combination	Combination Options					MIN. / MAX. Loading	Limitations
				One unit	Two units	Three units	Four units	Five units		
DUAL (2) ZONE	YN020GMFI22M2D	Wall (09-12), Cassette (09-12), Ducted (09-12), Floor Console (09-12)	Wall: 9+9 Ducted: 9+9	12	9+9				12,000 / 24,000 BTU/h.	
					9+12					
					12+12					
TRIPLE (3) ZONE	YN030GMFI22M3D	Wall (09-12-018), Cassette (09-12-018), Ducted (09-12-018), Flex Mount (09-12-18), Floor Console (09-12)	Wall: 9+9+9 Ducted: 9+9+9		9+9	9+9+9			18,000 / 36,000 BTU/h.	
					9+12	9+9+12				
					9+18	9+9+18				
					12+12	9+12+12				
					12+18	9+12+18				
QUAD (4) ZONE	YN040GMFI22M4D	Wall (09-12-018), Cassette (09-12-018), Ducted (09-12-018), Flex Mount (09-12-18), Floor Console (09-12)	Wall: 9+9+9+9 Ducted: 9+9+9+9		9+18	9+9+9	9+9+9+9		24,000 / 48,000 BTU/h.	
					12+12	9+9+12	9+9+9+12			
					12+18	9+9+18	9+9+9+18			
					18+18	9+12+12	9+9+12+12			
						9+12+18	9+9+12+18			
						9+18+18	9+12+12+12			
						12+12+12	12+12+12+12			
						12+12+18				
QUINT (5) ZONE	YN050GMFI22M5D	Wall (09-12-018-024), Cassette (09-12-018-024), Ducted (09-12-018-024), Flex Mount (09-12-18-024), Floor Console (09-12)	Wall: 9+9+9+9+9 Ducted: 9+9+9+9+9		18+18	9+9+18	9+9+9+9	9+9+9+9+9	36,000 / 64,000 BTU/h.	Do not exceed two pieces of 24,000 BTU/h Indoor Unit
					18+24	9+9+24	9+9+9+12	9+9+9+9+12		
					24+24	9+12+12	9+9+9+18	9+9+9+9+18		
						9+12+18	9+9+9+24	9+9+9+9+24		
						9+12+24	9+9+12+12	9+9+9+12+12		
						9+18+18	9+9+12+18	9+9+9+12+18		
						9+18+24	9+9+12+24	9+9+9+18+18		
						9+24+24	9+9+18+18	9+9+12+12+12		
						12+12+12	9+9+18+24	9+9+12+12+18		
						12+12+18	9+12+12+12	9+12+12+12+12		
						12+12+24	9+12+12+18	9+12+12+12+18		
						12+18+18	9+12+12+24	12+12+12+12+12		
						12+18+24	9+12+18+18			
						12+24+24	9+18+18+18			
						18+18+18	12+12+12+12			
						18+18+24	12+12+12+18			
							12+12+12+24			
							12+12+18+18			

Every indoor unit attached will operate at a random, self regulated capacity, based on the actual demand it measures from the zone it is serving (Between 30% to 100% of its rated capacity or OFF). Outdoor unit will also self regulate its output capacity, based on the total demand it reads from all of the simultaneously running indoor units at any given moment. With multi split systems, the total demand from the outdoor unit, shall seldomly exceed 67% of the total available capacity of the combined indoor unit group due to load fluctuations. Although very seldom, if and when the total demand from the combined indoor group exceeds the rated capacity of the outdoor unit, the capacity of the each indoor unit will be annotated accordingly. For high demand heating applications, max loading limits may need to be reduced by 10-15 % to avoid underperformance risks at some extreme conditions.

B: INDOOR UNITS



INDOOR UNIT STYLE			WALL MOUNTED DUCTLESS			
Model			WS009GMFI22HLD	WS012GMFI22HLD	WS018GMFI22HLD	WS024GMFI22HLD
Product Code			22022011004687	22022011004161	22022011004162	22022011004100
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	9000	12000	18000	24000
	SEER		22.8	21.5	21.0	20.5
	EER	Btu/W	12.5	12.5	8.0	9.3
Heating	Capacity	Btu/h	9000	12000	18000	24000
	HSPF4		10.5	11.0	10.0	11.0
Indoor fan motor	Model		ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-58-8-1	ZKFN-120-8-2
	Qty		1	1	1	1
	Power	W	20(Output)	20(Output)	58(Output)	120(Output)
	RLA	A	0.9	1	1.5	2
	Speed	r/min	1080/850/700	1080/850/650	1000/800/700	1100/900/700
Indoor air flow (Hi/Med/Lo)		m ³ /h	450 / 348 / 240	520 / 360 / 250	950 / 620 / 520	1050 / 800 / 550
Indoor air flow (Hi/Med/Lo)		CFM	265 / 205 / 141	306 / 212 / 147	559 / 365 / 306	617 / 471 / 324
Indoor noise level (Hi/Med/Low)		dB(A)	39 / 24.5	39 / 25	45.5 / 34.5	50 / 35.5
Indoor unit	Dimension (WxDxH)	mm	802 x 189 x 297	802 x 189 x 297	1080 x 226 x 335	1080 x 226 x 335
	Dimension (WxDxH)	inch	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(WxDxH)	mm	875 x 285 x 375	875 x 285 x 375	1155 x 415 x 315	1155 x 415 x 315
	Packing(WxDxH)	inch	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	13.2 / 16.8	13.2 / 16.8
	Net/Gross weight	lbs.	18 / 22	18 / 22	29 / 37	29 / 37
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 9.52	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 9.52 / Φ 15.9
		Inch.	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	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



INDOOR UNIT STYLE			CEILING CONCEALED (RECESSED) DUCTED			
Model			RB009GMFILDFHD	RB012GMFILDFHD	RB018GMFILDFHD	RB024GMFILDFHD
Product Code			22023011000630	22023011000631	22023011000632	22023011000633
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	9000 (3000~11300)	12000 (4100~12100)	18000 (6400~18800)	24000 (11000~24400)
	SEER		20.5	21.5	19	21.5
	EER	Btu/W	13.5	12.5	12.5	12.5
Heating	Capacity	Btu/h	10000 (4800~13900)	12000 (3600~12100)	18000 (6000~18900)	24400 (10200~29400)
	HSPF4		11.5	11.5	10.5	11
Indoor fan motor	Model		ZKFN-55-8-22	ZKFN-55-8-22	ZKFN-160-8-1-2	ZKFN-160-8-1-2
	Qty		1	1	1	1
	Power	W	90	90	130	130
	RLA	A	1.11	1.11	1.2	1.2
	Speed	r/min	1170 / 1030 / 850	1170 / 1030 / 850	850 / 700 / 450	920 / 750 / 500
Indoor air flow (Hi/Med/Lo) (No duct)		m ³ /h	600 / 480 / 300	600 / 480 / 300	900 / 765 / 630	1320 / 1180 / 740
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	355 / 285 / 175	355 / 285 / 175	530 / 450 / 370	775 / 695 / 435
External Static Pressure (Range)		Pa	0~40	0~40	0~100	0~160
	Inch WC		0~0.16	0~0.16	0~0.40	0~0.63
Indoor noise level (Hi/Med/Low)		dB(A)	35.5 / 30.5 / 27.5	37.5 / 33.0 / 27.5	41.5 / 38.5 / 36	44.0 / 41.0 / 34.0
Indoor unit	Dimension (WxDxH)	mm	700 x 450 x 200	700 x 450 x 200	880 x 674 x 210	1100 x 774 x 249
	Dimension (WxDxH)	inch	27"-1/2 x 17"-3/4 x 7"-7/8	27"-1/2 x 17"-3/4 x 7"-7/8	34"-5/8 x 26"-1/2 x 8"-1/2	43"-3/8 x 30"-1/2 x 9"-3/4
	Packing(WxDxH)	mm	860 x 540 x 285	860 x 540 x 285	1070 x 725 x 280	1305 x 805 x 315
	Packing(WxDxH)	inch	33"-7/8 x 21"-1/4 x 10"-7/8	33"-7/8 x 21"-1/4 x 10"-7/8	42"-1/8 x 28"-1/2 x 10"-5/8	51"-3/8 x 31"-5/8 x 12"
	Net/Gross weight	kg	17.7 / 21.9	17.7 / 21.9	23.8 / 29.5	39.5 / 46.7
	Net/Gross weight	lbs.	39/48	39/48	53/65	87 / 103
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 9.52	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 9.52 / Φ 15.9
		Inch.	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 3/8" / Φ 5/8"
Controller			LCD Wired Remote	LCD Wired Remote	LCD Wired Remote	LCD Wired Remote
Room temperature	Cooling		17~32	17~32	17~32	17~32
	Cooling		62~90	62~90	62~90	62~90
	Heating		0~30	0~30	0~30	0~30
	Heating		32~86	32~86	32~86	32~86
Operation temperature			17~30	17~30	17~30	17~30
			62~86	62~86	62~86	62~86

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INDOOR UNIT STYLE			CEILING CASSETTE DUCTLESS			
Model			CB009GMFILCFHD	CB012GMFILCFHD	CB018GMFILCFHD	CB024GMFILCFHD
Product Code			22022511000703	22022511000710	22022511000711	22022511000481
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	9000	12000	18000	24000
	SEER		20	21.5	20	20
	EER	Btu/W	13	14	12.5	12.5
Heating	Capacity	Btu/h	10000	12000	18000	24400
	HSPF4		10.5	10.5	10.3	10.5
Indoor fan motor	Model		ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-42-8-1
	Qty		1	1	1	1
	Power	W	46(Output)	46(Output)	46(Output)	42
	RLA	A	0.9	1	1.5	2
	Speed	r/min	600 / 520 / 460	680 / 580 / 500	730 / 630 / 570	600 / 520 / 450
	Indoor air flow (Hi/Med/Lo)	m ³ /h	635 / 511 / 437	644 / 525 / 443	951 / 770 / 655	1189 / 1075 / 974
Indoor air flow (Hi/Med/Lo)	CFM	374 / 301 / 257	379 / 309 / 261	560 / 455 / 385	700 / 630 / 573	
Indoor noise level (Hi/Med/Low)	dB(A)	41 / 37 / 33	43 / 39 / 36	44 / 39 / 36	51 / 47 / 43	
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
	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"
	Packing(WxDxH)	mm	655 x 655 x 290	655 x 655 x 290	655 x 655 x 290	900 x 900 x 217
	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
	Net/Gross weight	kg	14.5 / 17.3	16 / 18.6	16.1 / 18.7	21 / 24.6
	Net/Gross weight	lbs.	32 / 38	35 / 41	35.5 / 41.5	46.5 / 54
Panel	Dimension (WxDxH)	mm	647 x 647 x 50	647 x 647 x 50	647 x 647 x 50	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"
	Packing(WxDxH)	mm	715 x 715 x 123	715 x 715 x 123	715 x 715 x 123	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
	Net/Gross weight	kg	2.5 / 4.5	2.5 / 4.5	2.5 / 4.5	5 / 8
	Net/Gross weight	lbs.	5.5 / 10	5.5 / 10	5.5 / 10	11 / 17.5
Design pressure	PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	
Drainage water pipe diameter	mm		ODΦ25	ODΦ25	ODΦ25	ODΦ32
	Inch		1"	1"	1"	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
		Inch.	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"
Controller			Wireless Remote	Wireless Remote	Wireless Remote	Wireless 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



INDOOR UNIT STYLE			FLOOR CONSOLE DUCTLESS		FLOOR-CEILING (FLEXMOUNT) DUCTLESS	
Model			FB009GMFILCFHD	FB012GMFILCFHD	UB018GMFILCFHD	UB024GMFILCFHD
Product Code			22022711000996	22022711000421	22022711000996	22022711000421
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	9000	12000	18000	24000
	SEER		20.0	20.5	20.0	20.0
	EER	Btu/W	12.5	13.0	12.5	12.5
Heating	Capacity	Btu/h	10000	12000	18000	24000
	HSPF4		10.5	10.0	10.5	11.0
Indoor fan motor	Model		ZKFP-20-8-2	ZKFP-20-8-2	ZKFN-55-8-1	ZKFN-55-8-1
	Qty		1	1	1	1
	Power	W	20(Output)	20(Output)	55	55
	RLA	A	0.9	1	1.5	2
	Speed	r/min	710 / 650 / 550 / 450	810 / 780 / 680 / 530	950 / 850 / 750	1350 / 1260 / 1120
	Indoor air flow (Hi/Med/Lo)	m ³ /h	542 / 461 / 344	546 / 469 / 357	982 / 885 / 790	1290 / 1180 / 1070
Indoor air flow (Hi/Med/Lo)	CFM	319 / 271 / 202	321 / 276 / 201	578 / 520 / 465	759 / 695 / 630	
Indoor noise level (Hi/Med/Low)	dB(A)	41 / 38 / 31	48 / 46 / 37	47 / 44 / 39	53 / 48 / 42	
Indoor unit	Dimension (WxDxH)	mm	700 x 600 x 210	700 x 600 x 210	1068 x 675 x 235	1068 x 675 x 235
	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	42" x 26"-1/2 x 9"-1/4	42" x 26"-1/2 x 9"-1/4
	Packing(WxDxH)	mm	810 x 710 x 305	810 x 710 x 305	1145 x 755 x 313	1145 x 755 x 313
	Packing(WxDxH)	inch	31"-7/8 x 28" x 12"	31"-7/8 x 28" x 12"	45" x 29"-3/4 x 12"-3/8	45" x 29"-3/4 x 12"-3/8
	Net/Gross weight	kg	13.5 / 18.2	15.4 / 20.1	25 / 29.7	26.5 / 31.4
	Net/Gross weight	lbs.	30 / 40	34 / 44	55 / 65.5	58.5 / 69
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 9.52	Φ 9.52 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 9.52 / Φ 15.9
		Inch.	Φ 1/4" / Φ 3/8"	Φ 3/8" / Φ 1/2"	Φ 1/4" / Φ 1/2"	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

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