

# 8-Way Ceiling Cassette Split Systems

**INVERTER++**

17.5~21.5 SEER Ultra High Efficiency  
DC Inverter + Heat Pump in One System  
Single Zone (9,000 ~ 48,000 BTU/hr)  
110V~120V / 208V~230V, 60Hz, 1Ph



For those who only want the *BEST*



## STANDARD FEATURES

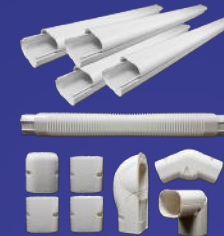
- Designed For Furred In, Flush to Ceiling Installation
- Cooling Only or Heat Pump Applications
- Ultra Slim Fully Cased Compact Cabinet Design
- Knockout Plates for Remote Ducted Drop Addition
- Full Galvanized Heavy Steel Casing for Indoor Units
- Newest 8-Way Air Discharge Louver Technology
- Digital 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 Fins
- 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

## ACCESSORIES & OPTIONS



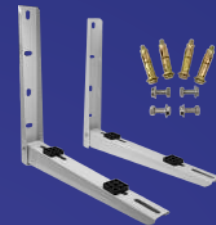
UVC Bacterial Disinfection Kit



Line Cover Kit



Line Set Flushing Kit



Mounting Brackets



Mounting Base



Surge Protection



Condensate Pump

MODEL SERIES		CYB SERIES, Inverter ++ Version (17.8 to 22.0 SEER Range) 8-Way Ceiling Cassette Ductless Split Systems						
System Set Model Number		CYB09GMFILCAD	CYB012GMFILCAD	CYB018GMFILCAD	CYB024GMFILCAD	CYB036GMFILCAD	CYB048GMFILCAD	
System Set Code		22022510003743	22022510003705	22022510004323	22022510003884	22022510004243	22022510004244	
Indoor Unit Model Number		CB009GMFILCFHD	CB012GMFILCFHD	CB018GMFILCFHD	CB024GMFILDFHE	CB036GMFILDFHE	CB048GMFILDFHE	
Indoor Unit Code		22022511000703	22022511000710	22022511000711	22022511003396	22022511003496	22022511003497	
Outdoor Unit Model Number		YN009GMF12RPE	YN012GMF12RPE	YN018GMF12RPE	YN024GMF12RPE	YN036GMF18RUE	YN048GMF18RUE	
Outdoor Unit Code		22022016016320	22022016016322	22022016018180	22022016016500	22023116000121	22023116000122	
Power supply		V, Ph, Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	
Cooling Performance	Rated Capacity (Min - Max Range)	BTU / h	9,000 (2,970 ~ 10,500)	12,000 (2,800 ~ 14,100)	16,000 (5,600 ~ 16,000)	24,000 (8,130 ~ 26,272)	36,000 (12,400 ~ 36,000)	48,000 (16,600 ~ 48,000)
	Rated Power Input	W	692	857	1,340	1,920	4,000	5,050
	Rated Current	A	3.17	3.92	6.01	8.78	17.61	23.1
	EER / EER2	BTU / W	13 / 13	14 / 14	12.5 / 12.5	12.5 / 12.5	9 / 9.4	9.5 / 9.5
	SEER / SEER2	BTU / W	20 / 20	22 / 22	20.5 / 20.5	20.7 / 21.5	18.2 / 19.2	17.8 / 18.5
Heating Performance	Rated Capacity (Min - Max Range)	BTU / h	10,000 (2,230 ~ 11,650)	12,000 (1,950 ~ 14,600)	18,500 (7,700 ~ 18,500)	25,000 (10,650 ~ 30,000)	38,000 (11,200 ~ 38,000)	50,000 (11,850 ~ 52,000)
	Rated Power Input	W	952	1,045	1,950	2,210	3,700	4,730
	Rated Current	A	4.16	4.78	8.21	10	16.93	21.5
	COP	W / W	3.08	3.37	3.28	3.26	3.01	3.10
	HSPF / HSPF2	BTU / W	10.5 / 10	10.6 / 10	11 / 10.5	10.5 / 9.7	10.6 / 8.8	11.5 / 9.8
Low Heating Capacity (@17F)	BTU / h	6,100	7,800	12,000	15,600	23,000	28,000	
MINIMUM CIRCUIT AMPACITY (Full Set)		A	13	13	19	22	30	37
MAX.FUSE (Full Set)		A	15	15	30	30	45	50
Indoor Fan Motor	Model		ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-46-8-1	ZKFN-125-8-1	ZKFN-125-8-1	
	Brand		Weiling	Weiling	Weiling	Weiling	Weiling	
Indoor Air Flow (Hi / Md / Lo)	Speed (Hi / Md / Lo / Min)	RPM	600 / 520 / 460 / -	680 / 580 / 500	730 / 630 / 570 / -	680 / 624 / 568 / 512	760 / 696 / 632 / 568 / 440	800 / 730 / 660 / 590 / 456
		m3 / h	525 / 430 / 340	570 / 480 / 410	620 / 530 / 450	1,200 / 1,080 / 930	1,610 / 1,450 / 1,280	1,990 / 1,800 / 1,590
Indoor Air Flow (Hi / Md / Lo)	CFM		309 / 265 / 200	335 / 280 / 240	365 / 310 / 265	706 / 635 / 547	947 / 853 / 753	1,171 / 1,059 / 935
		dB(A)	37.5 / 34.5 / 31.5	40.0 / 36.0 / 32.5	43.0 / 38.5 / 34.5	49.0 / 46.0 / 43.0	52.5 / 50.0 / 46.5	55.0 / 53.0 / 50.0
Indoor Unit, (Recessed Body)	Net Dimensions (W*D*H)	mm	570 x 570 x 260	570 x 570 x 260	570 x 570 x 260	830 x 830 x 205	830 x 830 x 245	830 x 830 x 287
	Net Dimensions (W*D*H)	Inches	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	32"-5/8 x 32"-5/8 x 8"-1/8	32"-5/8 x 32"-5/8 x 9"-5/8	32"-5/8 x 32"-5/8 x 11"-3/8
	Packing Dimensions (W*D*H)	mm	662 x 662 x 317	662 x 662 x 317	662 x 662 x 317	910 x 910 x 250	910 x 910 x 250	910 x 910 x 250
	Packing Dimensions (W*D*H)	Inches	26" x 26" x 12"-1/2	26" x 26" x 12"-1/2	26" x 26" x 12"-1/2	35"-7/8 x 35"-7/8 x 9"-7/8	35"-7/8 x 35"-7/8 x 11"-5/8	35"-7/8 x 35"-7/8 x 13"
	Net / Gross Weight	Kg	14.5 / 17.3	16.0 / 18.6	16.2 / 21.3	21.4 / 25.1	27.2 / 31.3	29.3 / 33.6
Net / Gross Weight	Lbs	32.0 / 38.2	35.3 / 41.0	35.7 / 47.0	47.2 / 55.3	60.0 / 69.0	64.6 / 74.1	
Indoor Unit, (Exposed Panel)	Net Dimensions (W*D*H)	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
	Net Dimensions (W*D*H)	Inches	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"-5/8 x 37"-5/8 x 2"-1/4	37"-5/8 x 37"-5/8 x 2"-1/4	37"-5/8 x 37"-5/8 x 2"-1/4
	Packing Dimensions (W*D*H)	mm	715 x 715 x 123	715 x 715 x 123	715 x 715 x 123	1,035 x 1,035 x 90	1,035 x 1,035 x 90	1,035 x 1,035 x 90
	Packing Dimensions (W*D*H)	Inches	28"-1/8 x 28"-1/8 x 4"-7/8	28"-1/8 x 28"-1/8 x 4"-7/8	28"-1/8 x 28"-1/8 x 4"-7/8	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	6.0 / 9.0	6.0 / 9.0	6.0 / 9.0
Net / Gross Weight	Lbs	5.5 / 9.9	5.5 / 9.9	5.5 / 9.9	13.2 / 19.8	13.2 / 19.8	13.2 / 19.8	
Outdoor Fan Motor	Model		ZKFN-34-10-1	ZKFN-34-10-1	ZKFN-80-8-3	ZKFN-120-8-2	ZKFN-120-8-2	
	Brand		Weiling	Weiling	Weiling	Weiling	Weiling	
Outdoor Air Flow (H)	Speed (Hi / Md / Lo / Min)	RPM	800 / - / 600	800 / - / 600	810 / - / 720	900 / 810 / 450 / 360	950 / 800 / 500	850 / 750 / 650 / 550
		m3 / h	2,200	2,200	3,500	3,800	5,100	7,650
Outdoor Air Flow (H)	CFM		1,294	1,294	2,058	2,235	3,000	4,500
		dB(A)	54.5	53.5	59.0	61.0	63.5	65.0
Compressor	Model		KSK103D33UEZ3	KSK103D33UEZ3	KSN140D58UFZ	KTM240D43UKT	KTF310D43UMT	
	Type		ROTARY	ROTARY	ROTARY	Twin-ROTARY	ROTARY	
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	
	Rated Current (RLA)	A	6.4	6.4	12.0	15.4	23.5	28
	Refrigerant Oil / Oil Amount	Ozs	ESTER OIL VG74, 10.5 Ozs	ESTER OIL VG74, 10.5 Ozs	ESTER OIL VG74, 15 Ozs	ESTER OIL VG74, 21 Ozs	ESTER OIL VG74, 34 Ozs	ESTER OIL VG74, 47 Ozs
Outdoor Unit	Net Dimensions (W*D*H)	mm	765 x 303 x 555	765 x 303 x 555	890 x 342 x 673	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1,333
	Net Dimensions (W*D*H)	Inches	30"-1/8 x 11"-7/8 x 21"-7/8	30"-1/8 x 11"-7/8 x 21"-7/8	35" x 13"-1/2 x 26"-1/2	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 Dimensions (W*D*H)	mm	887 x 337 x 610	887 x 337 x 610	995 x 398 x 740	1090 x 500 x 885	1090 x 500 x 885	1095 x 495 x 1,480
	Packing Dimensions (W*D*H)	Inches	34"-7/8 x 13"-1/4 x 24"	34"-7/8 x 13"-1/4 x 24"	39"-1/8 x 15"-5/8 x 29"-1/8	42"-7/8 x 19"-5/8 x 34"-7/8	42"-7/8 x 19"-5/8 x 34"-7/8	43"-1/8 x 19"-1/2 x 58"-1/2
	Net / Gross Weight	Kg	28.9 / 31.3	28.9 / 31.3	42.8 / 45.8	56.6 / 61.2	70.5 / 75.4	99.4 / 113.0
Net / Gross Weight	Lbs	63.7 / 69.0	63.7 / 69.0	94.4 / 101	124.8 / 134.9	155.4 / 166.2	219.1 / 249.1	
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	
Expansion Device Type, Location			EXV, Outdoor	EXV, Outdoor	EXV, Outdoor	EXV, Outdoor	EXV, Outdoor	
Factory Charged Weight (Optimized for 16' Line Set)		Ozs	38.1	38.1	56.4	82.9	113.0	
Adjustment Charge (Ea. Foot length for <10' or >25')		Ozs/Ft.	0.16	0.16	0.16	0.32	0.32	
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	
Refrigerant Piping	Liquid Side / Gas Side (OD)	Inch	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	
	Max. Refrigerant Pipe Length	m	25	25	30	50	65	
	Max. Refrigerant Pipe Length	Ft.	82	82	100	164	213	
	Max. Height Difference	m	10	10	10	25	30	
	Max. Height Difference	Ft.	33	33	66	82	100	
Condensate Drain Connection Diameter (Internal Pump)		mm (In)	CYB-22	OD Φ 25mm (1")	OD Φ 25mm (1")	OD Φ 25mm (1")	OD Φ 25mm (1")	
Intercconnecting Cable Specs			AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 3 & 2# x 2Shielded	AWG 16# x 3 & 2# x 2Shielded	
Controller Included			LCD Wireless Remote	LCD Wireless Remote	LCD Wireless Remote	LCD Wireless Remote	LCD Wireless Remote	
Temperature Ranges	Indoor Temperature Setting Range	°C / °F	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	17~30 / 62~86	
	Indoor Min Heat (Vacation Mode)	°C / °F	8 / 46	8 / 46	8 / 46	8 / 46	8 / 46	
	Outdoor Ambient Range (Cooling)	°C / °F	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	
	Outdoor Ambient Range (Heating)	°C / °F	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75	
Recommended Application Area Size (Min-Max)		m2	15~30	15~30	15~30	15~30	15~30	
Based on average variables for cooling operation		Sq.Ft	160~325	215~430	325~650	430~860	650~1,300	

Specifications 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 on laboratory tests, performed in accordance with the applicable AHRI Standards for Variable Speed Mini Split Single Zone Heat Pump Systems.