

# Ductless Wall Mount Split Systems



*For those who only want the BEST*



## TECHNICAL SPECIFICATIONS

17~19 SEER Ultra High Efficiency

DC Inverter + Heat Pump in One System

Single Zone (9,000 ~ 36,000 BTU/hr)

110V~120V / 208V~230V, 60Hz, 1Ph



Piping Kits



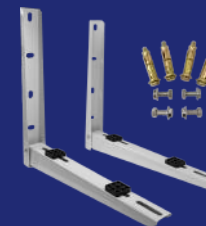
Port Adapters



Wireless Controller



Surge Protection



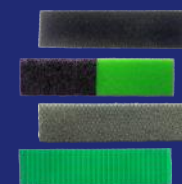
Mounting Brackets



Line Cover Kit



Vibration Absorbers



Air Filters

## 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 Fins
- Superior Efficiency Rating Under Variety of Conditions
- Dynamically Balanced Ultra Quiet Cross-Flow 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 (R410A)
- 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

## ACCESSORIES & OPTIONS

Quick Lookup Specs			(9K BTU/19 SEER/115V)	(12K BTU/19 SEER/115V)	(9K BTU/18 SEER/230V)	(12K BTU/19 SEER/230V)	(18K BTU/19 SEER/230V)	(24K BTU/17 SEER/230V)	(30K BTU/18 SEER/230V)	(36K BTU/16 SEER/230V)
System Model Number (System Set, 19 SEER Family)			WYS009AMFI19RL	WYS012AMFI19RL	WYS009GMFI19RL	WYS012GMFI19RL	WYS018GMFI19RL	WYS024GMFI19RL	WYS030GMFI17RL	WYS036GMFI17RL
System Product Code			22022010012796	22022010012696	22022010013156	22022010012697	22022010012959	22022010012958	22022010003572	22022010003573
Indoor Model Number			WS009AMFI19HLD	WS012AMFI19HLD	WS009GMFI19HLD	WS012GMFI19HLD	WS018GMFI19HLD	WS024GMFI19HLD	WS030GMFI17HLD	WS036GMFI17HLD
Indoor Product Code			22022011013660	22022011013540	22022011014040	22022011013541	22022011013851	22022011013850	22022011004098	22022011004099
Outdoor Model Number			YN009AMFI19RPD	YN012AMFI19RPD	YN009GMFI19RPD	YN012GMFI19RPD	YN018GMFI19RPD	YN024GMFI19RPD	YN030GMFI17RPD	YN036GMFI17RPD
Outdoor Product Code			22022016013779	22022016013680	22022016014119	22022016013679	22022016013946	22022016013945	22022016005119	22022016005120
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	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph
Cooling	Capacity (Range: Min~Max)	BTU/hr	9,000 (5,800~10,300)	12,000 (3,700~13,000)	9,000 (5,800~10,300)	12,000 (3,700~13,000)	18,000 (4,075~24,100)	24,000 (6,350~31,050)	30,000 (12,300~42,900)	36,000 (15,480~48,960)
	Input (Range: Min~Max)	Watt	782 (292~1,087)	1,020 (324~1,488)	820 (271~1,171)	1,065 (390~1,523)	1,645 (746~2,266)	2,500 (965~3,576)	2,857 (1,120~3,971)	4,235 (1,736~5,889)
	Rated Current	A	6.8	8.87	3.56	4.5	7.35	11	12.5	18.5
	EER	W/W	11.5	11	11	11.3	11	9.5	10.5	8.5
	SEER	BTU/W	19.5	19.5	18	19.5	19	17	18	16
Heating	Capacity (Range: Min~Max)	BTU/hr	10,000 (5,400~10,900)	12,000 (3,500~13,500)	9,000 (5,400~10,900)	12,000 (3,500~13,500)	18,000 (7,560~24,100)	24,000 (7,200~25,000)	30,000 (12,300~42,900)	36,000 (15,480~48,960)
	Input (Range: Min~Max)	Watt	925 (335~1,100)	1,026 (388~1,491)	864 (315~1,215)	1,025 (431~1,510)	1,700 (591~2,075)	2,200 (740~3,300)	3,110 (1,362~4,125)	3,835 (1,627~5,621)
	Rated Current	A	8.1	8.93	3.77	4.3	7.4	9.6	13.5	16.7
	COP	W/W	3.11	3.43	3.05	3.43	3.1	3.2	2.8	2.8
	HSPF4	BTU/hr	10	9.5	9.5	10	10	9.5	9.6	10
HSPF5	BTU/hr	7.8	7.8	8	8	8	8	8.1	8.4	
MINIMUM CIRCUIT AMPACITY		A	16	15	10	15	18	20	25	25
MAX FUSE		A	20	20	15	15	20	25	30	35
Moisture Removal		L/hr	1	1.2	1	1.2	1.8	2.4	3	3.5
		Pint/day	50	60	50	60	90	120	150	180
Compressor	Model		KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSN140D21UFZ	KTM240D57UMT	ATF250D22UMT	ATF250D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	BTU/hr	10578	10578	10578	10578	14962	26325	25760	25760
	Input	W	790	790	790	790	1140	2085	2070	2070
Rated Current (RLA)	A	6	6	6	6	7.5	9.5	17	17	
Refrigerant Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74
Refrigerant Oil / Oil Charge	ml (oz)	310 +/- 15	310 +/- 15	310 +/- 15	310 +/- 15	440 +/- 22.6	670 +/- 22.6	670 +/- 22.6	670 +/- 22.6	670 +/- 22.6
Indoor Fan Motor	Model		ZKFP-20-8-113	ZKFP-20-8-113	ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-30-8-3	ZKFP-58-8-1-5	ZKFP-58-8-1	ZKFP-58-8-1
	Brand		Welling	Welling	Welling	Welling	Welling	Welling	Welling	Welling
	Output Power	W	35	35	50	50	38	58	58	58
Speed (Hi/Med/Lo)	r / min	1050/850/600	1100/850/750	1240/850/650	1100/900/750	1100/800/750	1100/900/750	1200/1050/950	1200/1050/750	1200/1050/750
Indoor Air Flow (Hi/Med/Lo)	m <sup>3</sup> /hr	420/310/220	500/360/240	483/318/221	500/480/360	669/446/379	1000/765/600	1350/1050/800	1450/1100/800	1450/1100/800
	CFM	247/182/129	294/212/141	284/187/130	324/282/212	393/263/223	589/450/353	795/618/471	853/647/471	853/647/471
Indoor Noise Level (Hi/Med/Lo)	dB(A)	38/32/25	38/30/28	41.5/31.5/26.5	38/32/24	43/35/30.5	48/42.5/34	52.5/50/44.5	54.5/50/38.5	54.5/50/38.5
	Dimensions (W*D*H)	mm	722 x 187 x 290	802 x 189 x 297	802 x 189 x 290	802 x 189 x 297	965 x 215 x 319	1080 x 226 x 335	1259 x 226 x 362	1259 x 226 x 362
Indoor Unit	Dimensions (W*D*H)	inches	28"-1/2x 7"-3/8x 11"-3/8	31"-5/8x 7"-1/2x 11"-3/4	28"-1/2x 7"-3/8x 11"-3/8	31"-5/8x 7"-1/2x 11"-3/4	38"x 8"-1/2x 12"-1/2	42"-1/2x 8"-7/8x 12"-1/2	49"-1/2x 11"-1/8x 14"-1/4	49"-1/2x 11"-1/8x 14"-1/4
	Packing (W*D*H)	mm	790*270*375	875*285*380	790*270*375	875*285*380	1045*305*410	1155*415*320	1340*450*380	1340*450*380
	Packing (W*D*H)	inches	31"-1/8x 10"-5/8x 14"-3/4	34"-1/2x 11"-1/4x 15"	31"-1/8x 10"-5/8x 14"-3/4	34"-1/2x 11"-1/4x 15"	41"-1/8x 12"x 16"-1/8	45"-1/2x 16"-3/8x 12"-5/8	52"-3/4x 17"-3/4x 15"	52"-3/4x 17"-3/4x 14"-1/4
	Net/Gross Weight	kg	7.8 / 10.3	8.6 / 11.3	7.7 / 10.3	8.6 / 11.3	10.9 / 14.6	13.7 / 18	19.6 / 25.2	19.6 / 25.2
	Net/Gross Weight	lbs	17 / 22.5	19 / 25	17 / 22.5	19 / 25	24 / 32	30 / 39.5	43 / 55.5	43 / 55.5
Outdoor Fan Motor	Model		ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-50-8-2-3	ZKFN-120-8-2	ZKFN-120-8-2
	Input	W	58	58	58	58	115	120	120	
	Output	W	34	34	34	34	34	115	120	
	RLA	A	0.39	0.39	0.39	0.39	0.5	0.6	0.6	
	Winding Resistance	Ω	77.3	77.3	77.3	77.3	77.3	37.3	77.3	
Speed	r/min	850 / 650	800 / 650	850 / 650	800 / 650	800 / 650	800 / 650	900 / 750	900 / 750	
Outdoor Air Flow	m <sup>3</sup> /hr	2000	2000	2000	2000	2000	3100	4300	5000	
	CFM	1176	1176	1176	1176	1176	1823	2530	2943	
Outdoor Noise Level (High Speed)	dB(A)	52	55	52	55	57.5	58	63	63	
Outdoor Unit	Dimensions (W*D*H)	mm	770 x 300 x 555	800 x 333 x 554	770 x 300 x 555	800 x 333 x 554	800 x 333 x 554	845 x 363 x 702	946 x 420 x 810	946 x 420 x 810
	Dimensions (W*D*H)	inches	30"-3/8x 11"-7/8x 21"-7/8	31"-1/2x 13"-1/8x 21"-3/4	30"-3/8x 11"-7/8x 21"-7/8	31"-1/2x 13"-1/8x 21"-3/4	31"-1/2x 13"-1/8x 21"-3/4	33"-1/4x 14"-1/4x 27"-5/8	37"-1/2x 16"-1/2x 31"-7/8	37"-1/2x 16"-1/2x 31"-7/8
	Packing (W*D*H)	mm	900 x 345 x 595	920 x 390 x 615	900 x 345 x 595	920 x 390 x 615	920 x 390 x 615	965 x 395 x 775	1090 x 500 x 865	1090 x 500 x 865
	Packing (W*D*H)	inches	35"-3/8x 13"-5/8x 23"	36"-1/4x 15"-3/4x 24"-1/4	35"-3/8x 13"-5/8x 23"	36"-1/4x 15"-3/4x 24"-1/4	36"-1/4x 15"-3/4x 24"-1/4	39"x 15"-1/2x 30"-1/8	42"-7/8x 19"-5/8x 34"	42"-7/8x 19"-5/8x 34"
	Net/Gross Weight	kg	30.3 / 32.6	31.9 / 34.6	30.3 / 32.6	31.9 / 34.6	36.2 / 38.9	47.7 / 50.9	62.5/67.5	65/69.5
Net/Gross Weight	lbs	67 / 72	70 / 76	67 / 72	70 / 76	80 / 86	105 / 112	138 / 148	143 / 153	
Refrigerant Type / Amount	g	R410A / 850	R410A / 840	R410A / 850	R410A / 840	R410A / 1250	R410A / 1780	R410A / 2750	R410 / 3399	
Refrigerant Precharge for Tubing Length	ozs	R410A / 30	R410A / 30	R410A / 30	R410A / 30	R410A / 44	R410A / 63	R410A / 97	R410A / 120	
Additional Charge for Each Additional Foot	ft	25	25	25	25	25	25	25	25	
Design Test Pressure	ozs	0.16	0.16	0.16	0.16	0.16	0.32	0.32	0.32	
Refrigerant Piping	Liquid Side / Gas Side	MP (PSIG)	550 / 340	550 / 340	550 / 340	550 / 340	550/220	550/220	550 / 340	550 / 340
	Max. Piping Length	mm / inches	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")	Φ9.52 / Φ15.9 (3/8" / 5/8")	Φ9.52 / Φ15.9 (3/8" / 5/8")
	Max Level Difference	m	25	25	25	25	25	50	50	
		ft	80	80	80	80	100	165	210	
		m	10	10	10	10	20	25	30	
Connection Wiring	ft	33	33	33	33	65	80	100	100	
System Controller										
Operation Temperature Range	Indoor Temperature Setting Range (Cooling / Heating)	°C	17~30	17~30	17~30	17~30	17~30	17~30	17~30	17~30
		°F	62~86	62~86	62~86	62~86	62~86	62~86	62~86	62~86
	Indoor Temperature Operational Range (Cooling / Heating)	°C	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32	17 ~ 32 / 0 ~ 32
		°F	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86	62 ~ 90 / 32 ~ 86
	Frost Prevention Mode / Indoor Low Heat Setting	°C	8	8	8	8	8	8	8	8
Outdoor Ambient Range (Cooling / Heating)	°F	46	46	46	46	46	46	46	46	
Recommended Application Area (est.)	m <sup>2</sup>	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30
	sq. ft.	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / -13 ~ 86	5 ~ 122 / 5 ~ 86	5 ~ 122 / 5 ~ 86
Loadable Quantity 20'/40'/40'HQ	sets	18~33	28~42	18~33	28~42	37~60	56~79	800~1,050	93~116	1,000~1,250
	sets	200~350	300~450	200~350	300~450	400~650	600~850	800~1,050	1,000~1,250	1,000~1,250
	sets	110 / 228 / 248	84 / 178 / 214	110 / 228 / 248	84 / 178 / 214	74 / 160 / 186	60 / 126 / 142	36 / 78 / 98	38 / 78 / 98	38 / 78 / 98

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.