

# Ductless Wall Mount Split Systems



*For those who only want the BEST*



## TECHNICAL SPECIFICATIONS

**17.5~21.5 SEER Ultra High Efficiency**  
**Heat Pump + DC Inverter in One System**  
**Single Zone (9,000 ~ 36,000 BTU/hr)**  
**110V~120V / 208V~230V, 60Hz, 1Ph**

## 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



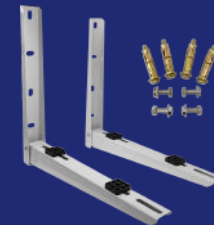
Wireless Controller



Line Cover Kit



Line Set Flushing Kit



Mounting Brackets



Vibration Absorbers



Condensate Pump



Surge Protection



UVC Bacterial Disinfection Kit

System Set Model Number		WYS009AMFI20RL	WYS012AMFI20RL	WYS009GMFI20RL	WYS012GMFI20RL	WYS018GMFI20RL	WYS024GMFI20RL	WYS030GMFI20RL	WYS036GMFI20RL	
System Set Code		22022010017181	22022010017198	22022010017202	22022010017201	22022010017319	22022010017197	22022010015638	22022010015438	
Indoor Unit Model Number		WS009AMFI20HLD	WS012AMFI20HLD	WS009GMFI20HLD	WS012GMFI20HLD	WS018GMFI20HLD	WS024GMFI20HLD	WS030GMFI20HLD	WS036GMFI20HLD	
Indoor Unit Code		22022011018365	22022011018382	22022011018386	22022011018385	22022011018503	22022011018381	22022011004098	22022011017161	
Outdoor Unit Model Number		YN009AMFI20RPD	YN012AMFI20RPD	YN009GMFI20RPD	YN012GMFI20RPD	YN018GMFI20RPD	YN024GMFI20RPD	YN030GMFI20RPD	YN036GMFI20RPD	
Outdoor Unit Code		22022016016743	22022016016740	22022016016742	22022016016644	22022016016720	22022016016744	22022016016360	22022016016340	
Power supply		V, Ph, Hz	115V, 1Ph, 60Hz	115V, 1Ph, 60Hz	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 (2,650 ~ 10,300)	12,000 (4,300 ~ 12,600)	9,000 (2,900 ~ 10,200)	12,000 (3,800 ~ 12,850)	18,000 (3,900 ~ 20,000)	24,000 (6,700 ~ 25,300)	30,000 (7,200 ~ 31,600)	36,000 (8,900 ~ 36,300)
	Rated Power Input	W	720	1,168	710	1,095	2,855	2,665	4,256	
	Rated Current	A	6.26	10.60	3.15	4.86	7.50	11.60	12.40	18.40
	EER	BTU / W	12.5	10.3	12.6	10.8	10.5	9.0	10.5	8.5
	SEER	BTU / W	20.5	20.0	21.5	20.5	19.0	18.0	18.6	17.5
Heating Performance	Rated Capacity (Min ~ Max Range)	BTU / h	10,000 (2,700 ~ 10,500)	12,000 (4,000 ~ 12,500)	10,000 (2,400 ~ 10,900)	12,000 (2,730 ~ 12,500)	18,800 (6,300 ~ 19,400)	24,000 (6,900 ~ 28,100)	30,000 (10,600 ~ 32,500)	36,000 (11,400 ~ 37,800)
	Rated Power Input	W	1,000	1,122	890	1,090	1,883	2,320	3,250	4,270
	Rated Current	A	8.7	10.3	4.13	5.05	8.67	10.08	14.2	18.9
	COP	W / W	2.93	3.13	3.29	3.23	2.93	3.03	2.71	2.47
	HSPF4	BTU / W	10.0	10.5	10	10	9.8	9.5	9.5	12
	HSPF5	BTU / W	7.8	8.4	8.3	8	8.3	8.0	7.7	8.0
Low Heating Capacity (@17F)	BTU / h	5,800	7,100	6,000	7,000	12,000	14,500	18,500	24,000	
MINIMUM CIRCUIT AMPACITY (Full Set)		A	20	20	13	15	19	23	28	
MAXFUSE (Full Set)		A	25	25	15	15	30	30	35	
Indoor Fan Motor	Model		ZKFP-20-8-113	ZKFP-20-8-113	ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-30-8-3-10	ZKFP-58-8-1-10	ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Brand		Weiling	Weiling	Weiling	Weiling	Weiling	Weiling	Weiling	Weiling
	Speed (Hi / Md / Lo)	RPM	1,050 / 850 / 600	1,200 / 850 / 750	1,180 / 850 / 650	1,080 / 850 / 650	1,100 / 800 / 750	1,100 / 900 / 750	1,200 / 1,050 / 950	1,200 / 950 / 750
Indoor Air Flow (Hi / Md / Lo)		m3 / h	420 / 310 / 220	525 / 350 / 300	440 / 328 / 231	539 / 352 / 244	660 / 440 / 370	1,000 / 765 / 600	1,350 / 1,050 / 800	1,245 / 880 / 680
Indoor Air Flow (Hi / Md / Lo)		CFM	247 / 182 / 129	309 / 206 / 176	259 / 193 / 136	317 / 207 / 144	388 / 259 / 218	588 / 450 / 353	794 / 618 / 471	732 / 518 / 400
Indoor Noise Level (Hi / Md / Lo)		dB(A)	36.5 / 31.0 / 22.0	41.5 / 30.5 / 26.0	40.5 / 30.5 / 24.0	37.0 / 30.0 / 22.5	43.5 / 34.5 / 30.0	45.5 / 39.5 / 35.0	51.5 / 47.5 / 44.0	56.5 / 54.5 / 40.0
Indoor Unit	Net Dimensions (W*D*H)	mm	722 x 187 x 290	802 x 189 x 297	722 x 187 x 290	802 x 189 x 297	965 x 215 x 319	1,080 x 226 x 335	1,259 x 282 x 362	1,259 x 282 x 362
	Net Dimensions (W*D*H)	Inches	28"-1/2 x 7"-3/8 x 11"-3/8	31"-1/2 x 7"-3/8 x 11"-5/8	28"-1/2 x 7"-3/8 x 11"-3/8	31"-1/2 x 7"-3/8 x 11"-5/8	38" x 8"-1/2 x 12"-1/2	42"-1/2 x 8"-7/8 x 13"-1/8	49"-5/8 x 11"-7/8 x 14"-1/4	49"-5/8 x 11"-7/8 x 14"-1/4
	Packing Dimensions (W*D*H)	mm	790 x 270 x 375	875 x 285 x 380	790 x 270 x 375	875 x 285 x 380	1,045 x 305 x 410	1,155 x 415 x 320	1,340 x 450 x 385	1,340 x 450 x 385
	Packing Dimensions (W*D*H)	Inches	31"-1/8 x 10"-5/8 x 14"-3/4	34"-1/2 x 11"-1/4 x 15"	31"-1/8 x 10"-5/8 x 14"-3/4	34"-1/2 x 11"-1/4 x 15"	41"-1/8 x 12" x 16"-1/8	45"-1/2 x 17"-3/4 x 12"-5/8	52"-3/4 x 17"-3/4 x 15"-1/8	52"-3/4 x 17"-3/4 x 15"-1/8
	Net / Gross Weight	Kg	7.7 / 10.1	9.0 / 11.0	7.7 / 10.1	9.0 / 11.0	10.8 / 14.3	13.6 / 17.5	17.0 / 22.9	18.3 / 23.9
Net / Gross Weight	Lbs	17.0 / 22.3	19.8 / 24.8	17.0 / 22.3	19.8 / 24.8	23.8 / 31.5	30.0 / 38.6	37.5 / 50.5	40.3 / 52.7	
Outdoor Fan Motor	Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-120-8-3	ZKFN-120-8-2	ZKFN-120-8-2	
	Brand		Weiling	Weiling	Weiling	Weiling	Weiling	Weiling	Weiling	
	Speed (Hi / Md / Lo / Min)	RPM	800 / - / 600 / -	780 / 700 / 600 / -	800 / - / 600 / -	780 / 700 / 600 / -	950 / 800 / 650 / 450	810 / - / 720	900 / - / 750	1,150 / 1,050 / 900 / 850
Outdoor Air Flow (H)		m3 / h	2,200	2,100	2,200	2,100	2,100	3,000	3,800	
Outdoor Air Flow (H)		CFM	1,294	1,235	1,294	1,235	1,235	1,765	2,235	2,235
Outdoor Noise Level (H)		dB(A)	54.0	55.5	53	55.5	57.0	60.0	63.5	
Compressor	Model		KSK103D33UEZ3	KSN98D64UFZ3	KSK103D33UEZ3	KSN98D64UFZ3	KSN140D21UFZ	KTM240D43UKT	KTF250D22UMT	KTF250D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	Twin-ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Rated Current (RLA)	A	14.0	13.0	7.0	7.5	10.0	14.30	15.0	18.0
Refrigerant Oil / Oil Amount		Ozs	ESTER OIL VG74, 10.5 Oz	ESTER OIL VG74, 10.5 Oz	ESTER OIL VG74, 10.5 Oz	ESTER OIL VG74, 10.5 Oz	ESTER OIL VG74, 15.0 Oz	ESTER OIL VG74, 21.0 Oz	ESTER OIL VG74, 22.5 Oz	ESTER OIL VG74, 22.5 Oz
Outdoor Unit	Net Dimensions (W*D*H)	mm	765 x 303 x 555	765 x 303 x 555	765 x 303 x 555	765 x 303 x 555	805 x 330 x 554	890 x 342 x 673	946 x 410 x 810	946 x 410 x 810
	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	30"-1/8 x 11"-7/8 x 21"-7/8	30"-1/8 x 11"-7/8 x 21"-7/8	31"-5/8 x 13" 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
	Packing Dimensions (W*D*H)	mm	887 x 337 x 610	887 x 337 x 610	887 x 337 x 610	887 x 337 x 610	915 x 370 x 615	995 x 398 x 740	1,090 x 500 x 885	1,090 x 500 x 885
	Packing Dimensions (W*D*H)	Inches	34"-7/8 x 13"-1/4 x 24"	34"-7/8 x 13"-1/4 x 24"	34"-7/8 x 13"-1/4 x 24"	34"-7/8 x 13"-1/4 x 24"	36" x 14"-5/8 x 24"-1/4	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
	Net / Gross Weight	Kg	26.2 / 28.8	28.2 / 30.7	25.0 / 27.6	26.9 / 29.4	33.5 / 36.2	44.4 / 47.4	64.3 / 68.9	68.1 / 72.1
Net / Gross Weight	Lbs	57.8 / 63.5	62.2 / 67.7	55.1 / 60.9	59.3 / 64.8	73.9 / 79.8	97.9 / 104.60	141.7 / 151.9	150.1 / 159.0	
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Expansion Device Type, Location			Capillary Tube, Outdoor	Capillary Tube, Outdoor	Capillary Tube, Outdoor	Capillary Tube, Outdoor	Capillary Tube, Outdoor	EXV, Outdoor	EXV, Outdoor	
Factory Charged Weight (Optimized for 16' Line Set)		Ozs	25.4	28.6	25.4	28.6	47.6	62.8	97	120
Adjustment Charge (Ea. Foot length for <10' or >25')		Ozs/Ft.	0.16	0.16	0.16	0.16	0.16	0.32	0.32	0.32
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	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" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
	Max. Refrigerant Pipe Length	m	25	25	25	25	30	50	50	65
	Max. Refrigerant Pipe Length	Ft.	82	82	82	82	100	164	164	213
	Max. Height Difference	m	10	10	10	10	20	25	25	30
	Max. Height Difference	Ft.	33	33	33	33	66	82	82	98
Condensate Drain Connection Diameter		mm (In)	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	OD Φ 16mm (5/8")	
Interconnecting Cable Specs			AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	
Controller Included			LCD Wireless Remote	LCD Wireless Remote	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	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	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	-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	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75	-25 ~ +24 / -13 ~ +75
Recommended Application Area Size (Min~Max)		m2	15~30	20~40	15~30	20~40	30~60	40~80	50~100	60~120
Based on average variables for cooling operation		Sq.Ft.	160~325	215~430	160~325	215~430	325~650	430~860	540~1,080	650~1,300