

# Diamante ULTRA Multi-Zones

**20~23 SEER Ultra High Efficiency**

**Heat Pump + DC Inverter in One System**

**Multi Zone (18,000 ~ 36,000 BTU/hr)**



**YN-L + WT**  
**WALL MOUNTED**  
**MULTI ZONE MINI SPLITS**

**INVERTER++**



## STANDARD FEATURES

- Available In 2, 3, 4 Zone Versions
- Ultra-High Efficiency Dc Inverter++ Energy-Star Versions
- Ultra-High Full Load And Partial Load Efficiencies
- Cooling And Heating Functions Down To -4F 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
- Digital Backlit LED Display On Front Panel
- Designed For Standard Wall Hung Installation
- Latest Design Attractive Matte 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
- 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
- Large Capacity Suction Accumulators
- Flare Type Refrigerant Connections
- 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
- Wi-Fi Access Via Free Smartphone App Included

## ACCESSORIES & OPTIONS



UVC Bacterial Disinfection Kit



Line Cover Kit



Line Set Flushing Kit



Mounting Brackets



Mounting Base



Surge Protection



Condensate Pump

MODEL SERIES			YN-L SERIES, Inverter ++ Version (21.5 to 22.0 SEER Range) Multi Zone Ductless Systems			
Outdoor Unit Model Number (2, 3, and 4 Circuit Multi Zone)			YN020GLFI22M2D	YN030GLFI22M3D	YN040GLFI22M4D	
Outdoor Unit Code			Z2U20607000143	Z2U20607000144	Z2U20607000145	
Indoor Unit Model Number (Selected For Below Rating Data)			WT009GLFI22HLD (2)	WT009GLFI22HLD (3)	WT009GLFI22HLD (4)	
Power supply		V, Ph, Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz	
Cooling Performance	95F Rated Capacity (Min ~ Max Range)	BTU / h	17000 (5100~18700)	24000 (7200~26400)	32000 (9600~35200)	
	Rated Power Input	W	1,350	1,860	2,600	
	Rated Current	A	6.50	8.80	11.80	
	EER / EER2	BTU / W	12.5 / 12	12.5 / 12	12.5 / 12	
	SEER / SEER2	BTU / W	22 / 22	22 / 22	21.5 / 21.5	
Heating Performance	47F Rated Capacity (Min ~ Max Range)	BTU / h	19600 (5880~21560)	26000 (7800~28600)	35000 (10500~38500)	
	Rated Power Input	W	1,600	1,950	2,890	
	Rated Current	A	7.50	9.10	13.10	
	COP	W / W	3.5	3.5	3.5	
	HSPF / HSPF2	BTU / W	10 / 9	10 / 9	10 / 9	
	Low Heating Capacity (@17F)	BTU / h	13,700	16,400	23,000	
MINIMUM CIRCUIT AMPACITY (Full Set)		A	12	14	17	
MAX.FUSE (Full Set)		A	15	20	25	
Outdoor Fan Motor	Model		ZWK584C000002	ZWK584C000002	SIC-81FW-F1160-1	
	Brand		DAYANG	DAYANG	SHIBAURA	
	Speed (Hi / Md / Lo / Min)	RPM	840 / 550 / 300	840 / 550 / 300	840 / 550 / 300	
Outdoor Air Flow (H)		m3 / h	2,990	3,580	3,900	
Outdoor Air Flow (H)		CFM	1,759	2106	2,294	
Outdoor Noise Level (H)		dB(A)	56.0	58.0	63.0	
Compressor	Model		C-6RZ146H1DJ	C-6RZ210H1BBF	ATF250D22UMT	
	Type		Twin-ROTARY	Twin-ROTARY	Twin-ROTARY	
	Brand		SANYANG	SANYANG	GMCC	
	Rated Current (RLA)	A	7.2	9.0	10.6	
	Refrigerant Oil / Oil Amount	Ozs	PVE, 15.2 Ozs	FV68S, 20.2 Ozs	POV VE74, 22.6 Ozs	
Outdoor Unit	Net Dimensions (W*D*H)	mm	845 x 380 x 699	900 x 360 x 805	1,005 x 400 x 910	
	Net Dimensions (W*D*H)	Inches	33" x 14"-7/8 x 27"-1/4	35"-1/8 x 14" x 31"-3/8	39"-1/4 x 15"-5/8 x 35"-1/2	
	Packing Dimensions (W*D*H)	mm	960 x 430 x 750	1,028 x 475 x 865	1,040 x 440 x 1,000	
	Packing Dimensions (W*D*H)	Inches	37"-3/4 x 16"-7/8 x 29"-1/2	40"-1/2 x 18"-3/4 x 34"	41" x 17"-3/8 x 39"-3/8	
	Net / Gross Weight	Kg	44 / 47.5	56 / 60.5	75.5 / 84.5	
	Net / Gross Weight	Lbs	96.8 / 104.5	123.2 / 133.1	166.1 / 185.9	
Refrigerant Type			R410A	R410A	R410A	
Expansion Device Type, Location			EXV, Outdoor	EXV, Outdoor	EXV, Outdoor	
Factory Charged Weight (Optimized for 16' Line Sets)		Ozs	65.3	77.6	141.0	
Adjustment Charge (Ea. Foot length for <10' or >25' Sets)		Ozs/Ft.	0.22	0.22	0.22	
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	
Refrigerant Piping	Liquid Side/ Gas Side (OD)	Inch	1/4" / 3/8" (2 sets)	1/4" / 3/8" (3 sets) (3/8>1/2 Adapters Provided)	1/4" / 3/8" (4 sets) (3/8>1/2 and 3/8>5/8 Adapters Provided)	
	Total Max. Refrigerant Pipe Length	m	30	45	60	
	Total Max. Refrigerant Pipe Length	Ft.	100	150	200	
	Zone Max. Refrigerant Pipe Length	m	20	20	20	
	Zone Max. Refrigerant Pipe Length	Ft.	65	65	65	
	Max. Height Difference IDU to ODU	m	15	15	15	
	Max. Height Difference IDU to ODU	Ft.	50	50	50	
	Max. Height Difference IDU to IDU	m	10	10	10	
Max. Height Difference IDU to IDU	Ft.	33	33	33		
Condensate Drain Connection Diameter		mm (In)	OD Ø 16mm (5/16")	OD Ø 16mm (5/16")	OD Ø 16mm (5/16")	
Interconnecting Cable Specs			AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	AWG 16# x 4 (TC-ER)	
Controller Included			/	/	/	
Temperature Ranges	Indoor Temperature Setting Range	°C / °F	17~30 / 61~86	17~30 / 61~86	17~30 / 61~86	
	Indoor Min Heat (Vacation Mode)	°C / °F	8 / 46	8 / 46	8 / 46	
	Outdoor Ambient Range (Cooling)	°C / °F	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	-15 ~ +50 / +5 ~ +122	
	Outdoor Ambient Range (Heating)	°C / °F	-20 ~ +30 / -4 ~ +86	-20 ~ +30 / -4 ~ +86	-20 ~ +30 / -4 ~ +86	
Recommended Application Area Size (Min~Max) / Total Based on average variables for cooling operation		m2	35~70	55~105	70~140	
		Sq.Ft	375~750	570~1,120	750~1,500	

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. - 001

MODEL SERIES			WT Series Wall Mount Ductless Split Indoor Units for YN-T Multi Split Systems			
Indoor Unit Model Number			WT009GLFI22HLD	WT012GLFI22HLD	WT018GLFI22HLD	WT024GLFI22HLD
Indoor Unit Code			Z2U20102006451	Z2U20102006427	Z2U20102006499	Z2U20102006421
Matching Multi Split Outdoor Units			2 / 3 / 4 Zone	2 / 3 / 4 Zone	3 / 4 Zone	4 Zone Only
Power supply			V, Ph, Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz
Cooling Performance	Rated Capacity (Min ~ Max Range)	BTU / h	9,000	12,000	18,000	23,000
	Rated Power Input	W	710	920	1,350	1,920
	Rated Current	A	3.2	4.1	6.1	8.6
	EER / EER2	BTU / W	12.5 / 12 (System Average)			
	SEER / SEER2	BTU / W	21.5 ~ 22 / 21.5 ~ 22 (System Average)			
Heating Performance	Rated Capacity (Min ~ Max Range)	BTU / h	9,500	12,000	18,000	24,000
	Rated Power Input	W	730	910	1,310	2,050
	Rated Current	A	3.3	4.1	5.9	9.2
	COP	W / W	3.5	3.5	3.5	3.2
	HSPF / HSPF2	BTU / W	10 / 9 (System Average)			
Low Heating Capacity (@19F)	BTU / h	8,000	10,000	14,000	18,000	
MINIMUM CIRCUIT AMPACITY (Full Set)	A	9	11	13	19	
MAX.FUSE (Full Set)	A	15	15	20	30	
Indoor Fan Motor	Model		BLDC	BLDC	BLDC	BLDC
	Brand		Weilling	Weilling	Broad-Ocean	Broad-Ocean
	Speed (Hi / Md / Lo / Min)	RPM	1,250 / 1,050 / 850 / 750	1,250 / 1,050 / 850 / 750	1,130 / 990 / 850 / 750	1,130 / 990 / 850 / 750
Indoor Air Flow (Hi / Md / Lo)	m3 / h	650 / 550 / 450	800 / 650 / 500	1,250 / 1,050 / 900	1,250 / 1,050 / 900	
Indoor Air Flow (Hi / Md / Lo)	CFM	382 / 324 / 265	471 / 382 / 294	735 / 618 / 529	735 / 618 / 529	
Indoor Noise Level (Hi / Md / Lo / MUTE)	dB(A)	39 / 34 / 29 / 27	39 / 34 / 29 / 27	45 / 40 / 35 / 31	45 / 40 / 35 / 31	
Indoor Unit	Net Dimensions (W*D*H)	mm	820 × 195 × 306	920 × 195 × 306	1,100 × 222 × 333	1,100 × 222 × 333
	Net Dimensions (W*D*H)	Inches	32"-1/4 × 7"-5/8 × 12"	36"-1/4 × 7"-5/8 × 12"	43"-3/8 × 8"-3/4 × 13"-1/8	43"-3/8 × 8"-3/4 × 13"-1/8
	Packing Dimensions (W*D*H)	mm	890 × 265 × 380	990 × 265 × 380	1,165 × 295 × 405	1,165 × 295 × 405
	Packing Dimensions (W*D*H)	Inches	35" × 10"-3/8 × 15"	39" × 10"-3/8 × 15"	45"-7/8 × 11"-5/8 × 16"	45"-7/8 × 11"-5/8 × 16"
	Net / Gross Weight	Kg	9.0 / 11.0	10.5 / 12.0	14.0 / 16.0	14.0 / 16.0
	Lbs	19.8 / 24.3	23.1 / 26.5	30.9 / 35.3	30.9 / 35.3	
Adjustment Charge (Ea. Foot length for <10' or >25')	Ozs/Ft.	0.22 Ozs	0.22 Ozs	0.22 Ozs	0.22 Ozs	
Design pressure	PSIG	550	550	550	550	
Refrigerant Piping Liquid Side/ Gas Side (OD)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	1/4" / 5/8"	
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")	
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)	
Controller Included		LCD Wireless Remote	LCD Wireless Remote	LCD Wireless Remote	LCD Wireless Remote	
Temperature Ranges	Indoor Temperature Setting Range	°C / °F	17 ~ 30 / 63 ~ 86	17 ~ 30 / 63 ~ 86	17 ~ 30 / 63 ~ 86	17 ~ 30 / 63 ~ 86
	Indoor Min Heat (Vacation Mode)	°C / °F	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
	Outdoor Ambient Range (Heating)	°C / °F	-25 ~ +30 / -13 ~ +86	-25 ~ +30 / -13 ~ +86	-25 ~ +30 / -13 ~ +86	-25 ~ +30 / -13 ~ +86
Recommended Application Area Size (Min~Max)	m2	15~30	20~40	30~60	40~80	
Based on average variables for cooling operation	Sq.Ft	160~325	215~430	325~650	430~860	

YN-T MULTI SPLIT SYSTEM INDOOR UNIT COMBINATION OPTIONS TABLE						
Outdoor Unit MODEL NUMBER	YN020GLFI22M2D		Y030GLFI22M3D		YN040GLFI22M4D	
Number of Zones Available	2		3		4	
Two Zones Utilized	9000 + 9000	9000 + 12000	9000 + 12000	9000 + 18000	9000 + 24000	12000 + 18000
	12000 + 12000		12000 + 12000	12000 + 18000	12000 + 24000	18000 + 18000
			18000 + 18000		18000 + 24000	24000 + 24000
Three Zones Utilized			9000 + 9000 + 9000	9000 + 9000 + 12000	9000 + 9000 + 12000	9000 + 9000 + 18000
			9000 + 9000 + 18000	9000 + 12000 + 12000	9000 + 9000 + 24000	9000 + 12000 + 12000
			9000 + 12000 + 18000	12000 + 12000 + 12000	9000 + 12000 + 18000	9000 + 12000 + 24000
					12000 + 12000 + 18000	12000 + 12000 + 24000
Four Zones Utilized					9000 + 9000 + 9000 + 9000	9000 + 9000 + 9000 + 12000
					9000 + 9000 + 9000 + 18000	9000 + 9000 + 9000 + 24000
					9000 + 9000 + 12000 + 12000	9000 + 9000 + 12000 + 18000
					9000 + 9000 + 12000 + 12000	9000 + 9000 + 12000 + 18000
					9000 + 12000 + 12000 + 12000	12000 + 12000 + 12000 + 12000
Matching Indoor Unit Model Numbers	WT009, WT012		WT009, WT012, WT018		WT009, WT012, WT018, WT024	

Different models of all available matching indoor units can be combined together in any order to create a multi zone split system, up to a quantity of the number of available circuits.

Not all available circuits need to be utilized with an attached indoor unit. 66% or higher of the total capacity utilization is recommended.

Every indoor unit attached to a multi zone system 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 turn OFF as needed.

Outdoor unit will also self regulate its total output capacity, based on the total demand it reads from all of the simultaneously running indoor units at any given moment, up to its maximum rating capacity.

With multi split systems, the total demand from the outdoor unit, will seldomly exceed 75% of the total available capacity of the combined indoor unit group due to load fluctuations of each indoor unit.

Therefore, total attached indoor unit capacity can be selected up to 133% of the supporting outdoor unit's rated capacity.

Although very seldom, if the total demand from the combined group of indoor units' exceeds the rated capacity of the outdoor unit, the capacity of the each indoor unit will be annotated accordingly.

For high demand applications, max loading limits may need to be reduced up to 20% to avoid underperformance risks during some extreme conditions.