

# Ceiling Concealed Ducted Split Systems

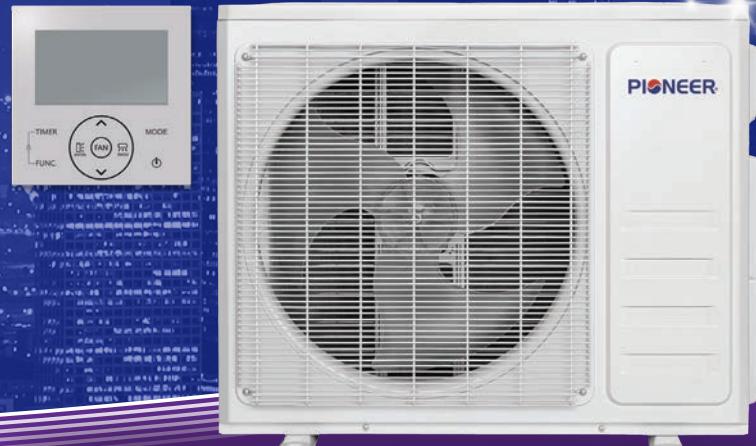
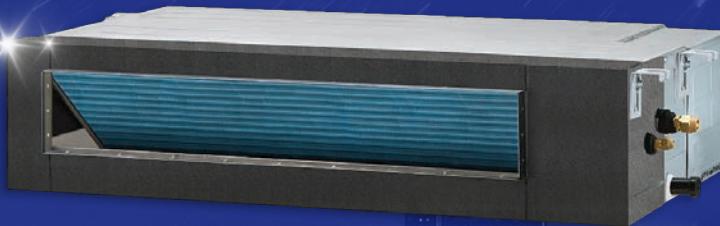
**23~24 SEER Ultra High Efficiency**

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

**Single Zone (9000~24000 BTU/hr)**

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

**Wireless Access Via Free Smartphone App**



**INVERTER++ TECHNOLOGY**

**Smart Airflow**

**High Efficiency**

**Insulated DESIGN**

**Cloud Connected**

**DUAL DRAINAGE**

**Low Noise**

**WORKS WITH**  
Amazon Alexa  
Google Assistant  
Siri



Whisper-Quiet Operation



Dual Drain Options



LED Display



Convenient Maintenance



Eco-Friendly Refrigerant



Customizable Timer



Soft Breeze Airflow



3D Air Flow



Ultra-Thin Design



Power Loss Memory Recovery



Rapid Delivery Output



Energy Saving



Wireless Control

## STANDARD FEATURES

- Horizontal Ceiling Concealed Ducted Indoor Unit
- Cooling Only or Heat Pump Applications
- Ultra Slim Fully Cased Compact Cabinet Design
- Furred-In Ceiling Concealed Ducted Applications
- Full Galvanized Heavy Steel Casing for Indoor Units
- Convertible (Rear-Bottom) Air Return
- Digital LCD Screen Wired 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 R32 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 Confections
- Highest Grade Components for Long Life Expectancy
- Ample Availability of Spare Parts and Accessories

Full System Model Number	RYT009GLSI24RL	RYT012GLSI24RL	RYT018GLSI24RL	RYT024GLSI24RL		
 	Indoor Unit Model Number RT009GLSILCFHG	Indoor Unit Model Code Z2U30304000587	Indoor Unit Model Number RT012GLSILCFHG	Indoor Unit Model Code Z2U30304000536		
	Outdoor Unit Model Number YN009GLSI24RPG	Outdoor Unit Model Code Z2U20103009117	Outdoor Unit Model Number YN012GLSI24RPG	Outdoor Unit Model Code Z2U20103009151		
System Type	QUANTUM ULTRA Series Ceiling Recessed Concealed Duct Mounting Type Split Heat Pump System					
Modes	Cooling, Heating, Dehumidification, Ventilation					
Control type	Standard set with wired remote (Other optional controllers are available)					
Input power supply	208~230V~/60Hz/1P	208~230V~/60Hz/1P	208~230V~/60Hz/1P	208~230V~/60Hz/1P		
Power supply range	187~253 VAC	187~253 VAC	187~253 VAC	187~253 VAC		
Energy Star Rating	✓	✓	✓	✓		
NEEP Rating	✓	✓	✓	✓		
Cooling performance	Rated cooling capacity (at 95°F)	Btu/h 9,500	11,000	17,000	22,000	
	Cooling capacity range	Btu/h 2,000~10,400	2,000~12,300	6,000~19,400	7,550~24,600	
	EER2 Rating	Btu/W.h 12.0	11.0	11.0	11.0	
	SEER2 Rating	Btu/W.h 19.6	19.0	20.3	19.0	
Heating performance	Rated Heating capacity (at 47°F)	Btu/h 9,500	12,000	18,000	25,000	
	Rated Heating capacity (at 17°F)	Btu/h 8,400	10,200	14,500	22,000	
	Heating capacity range	Btu/h 2,500~12,300	3,100~12,300	4,000~21,400	8,700~28,500	
	HSPF2 Rating (Region IV)	Btu/W.h 10.0	8.4	10.0	10.0	
	HSPF2 Rating (Region V)	Btu/W.h 8.8	7.3	9.2	8.8	
	COP2 (at 47°F)	W/W 3.5	3.34	2.8	3.34	
	Max. Heating capacity (at 5°F)	Btu/h 7,400	8,800	13,200	18,500	
	Performance percentage	78%	73%	73%	74%	
	COP2 (at 5°F)	W/W 1.85	1.8	1.8	2.0	
	Max. Heating capacity (at -4°F)	Btu/h 5,890	7,440	11,160	15,500	
	Max. Heating capacity (at -13°F)	Btu/h 4,750	6,000	9,000	12,500	
Rated power consumption	Cooling	W 750	940	1,450	1,870	
	Heating	W 800	1,030	1,805	2,030	
Rated power current	Cooling	A 3.2	4.1	6.3	8.1	
	Heating	A 3.5	4.5	7.8	8.8	
Min. circuit ampacity	A	10	11	12	17	
Max. circuit breaker	A	15	15	20	25	
Moisture removal	Pint/day	55	80	110	130	
Refrigerant and room size specifications	Type	R454b (A2L rated refrigerant with a lower GWP rating of 466)				
	Amount	Ozs 25.0	35.3	45.5	55.0	
	Sufficiency for max line set length	Ft 25	25	25	25	
	Adjustment amount per feet	Ozs 0.11	0.11	0.11	0.11	
	Recommended room size	Sq.Ft 250~350	350~500	500~750	750~1,000	
	Refrigerant leakage detector module	Standard / Assembled in indoor unit				
Air volume and sound level	Minimum room size (unit height 6')	SqF 28	40	51	62	
	Turbo/High/Med/Low/Mute	CFM 335/305/276/182/182	360/330/270/210/180	500/426/370/300/283	741/623/558/529/470	
External static duct pressure max		dB(A) 43/41/39	43/41/39	41/38/36	41/38/34	
Outdoor sound		Inch WC 0.4	0.4	0.4	0.5	
Connecting pipe	Gas	In (OD) 3/8"	3/8"	1/2"	5/8"	
	Liquid	In (OD) 1/4"	1/4"	1/4"	1/4"	
	Accessory line set length available	Feet	10' / 16' / 25' / 33' / 50' (can be further extended using coupling kits). Both Standard copper and fully flexible sets are available			
	Maximum allowable length	Feet 50	50	65	65	
	Maximum allowable vertical run	Feet 33	33	50	50	
Indoor unit dimensions and weight	Net unit dimensions (WxDxH)	Inch 27" 1/2 x 19" 1/4 x 7" 7/8	27" 1/2 x 19" 1/4 x 7" 7/8	35" 1/2 x 19" 1/4 x 7" 7/8	43" 1/4 x 17" 3/4 x 7" 7/8	
	Carton box dimensions (WxDxH)	Inch 35" 1/2 x 21" 7/8 x 9" 7/8	35" 1/2 x 21" 7/8 x 9" 7/8	44" 1/8 x 21" 7/8 x 9" 7/8	50" 3/4 x 22" 1/4 x 9" 7/8	
	Shipping factor		0.00192	0.00192	0.00238	
	Net unit weight	Lbs 33.1	33.1	39.7	50.7	
Outdoor unit dimensions and weight	Shipping weight	Lbs 40.8	40.8	46.3	58.4	
	Net unit dimensions (WxDxH)	Inch 31" 7/8 x 12" x 21" 5/8	31" 7/8 x 12" x 21" 5/8	36" 1/2 x 15" x 27" 1/2	38" 1/2 x 16" 5/8 x 31" 5/8	
	Carton box dimensions (WxDxH)	Inch 32" 7/8 x 13" x 22" 5/8	32" 7/8 x 13" x 22" 5/8	37" 3/8 x 16" 1/2 x 28" 7/8	40" 1/4 x 18" 7/8 x 31" 7/8	
	Shipping factor		0.00256	0.00256	0.00694	
	Net unit weight	Lbs 52.7	58.4	90.4	104.7	
Shipping weight		Lbs 57.1	65.0	97.0	119.0	
Connecting cable			AWG #16 x 4 Core TC-ER cable			
Temperature setting range	°F		62 ~ 86			
Working ambient temperature range for cooling	°F		5 ~ 131			
Temperature setting range for heating	°F		-13 ~ 86			

Rated cooling performance data is based on standard ARI conditions of **80°F-DB/67°F-WB** Indoor and **95°F** Outdoor ambient conditions. Rated heating performance data is based on standard ARI conditions of **70°F-DB/60°F-WB** Indoor and **47°F** Outdoor ambient conditions. Variable speed inverter systems adjust their output capacity automatically based on actual indoor and outdoor temperatures, thermostat settings and other heating or cooling loads. Capacity of the system output and related power input will vary based on these conditions. System contains A2L refrigerant and the minimal room size data must be strictly adhered to for any standard installation to avoid fire risk. This data assumes the indoor unit installation height of minimum 6 feet from the floor level. Lower levels require larger min. room sizes. **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.**