

PIONEER® QUANTUM Ultra™

1-Way Ceiling Cassette Split Systems

22 SEER Ultra High Efficiency
Heat Pump + DC Inverter in One System

Single Zone (9,000~18,000 BTU/hr)

208V~230V, 60Hz, 1Ph

Wireless Access Via Free Smartphone App



CYK-24

DC INVERTER HEAT PUMP

INVERTER++
TECHNOLOGY

R454b

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

- 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
- 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 and Quiet Variable Speed Compressors
- Very Low Starting Current
- Anti-Discoloration Formulated Plastic Dyes
- Low Ambient Condenser Heat Strip for -13°F Heating
- 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
- 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 (R454B)
- 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
- Wireless Access via Free Smartphone App Included
- Built to Withstand Extreme Ambient Climates

Full System Model Number			CYK009GMSI24RL	CYK012GMSI24RL	CYK018GMSI24RL	
	Indoor Unit Model Number		CK009GMSILDHFG	CK012GMSILDHFG	CK018GMSILDHFG	
	Indoor Unit Model Code		2202251100429	2202251100431	22022511004317	
Outdoor Unit Model Number		YN009GMSI24RPG	YN012GMSI24RPG	YN018GMSI24RPG		
Outdoor Unit Model Code		22022516002382	22022516002402	22022516002362		
System Type			QUANTUM ULTRA Series One-Way Ceiling Cassette Type Split Heat Pump System			
Modes			Cooling, Heating, Dehumidification, Ventilation			
Control type			Standard set with IR wireless remote (Other optional controllers are available)			
Input power supply			208~230V~/60Hz/1P	208~230V~/60Hz/1P	208~230V~/60Hz/1P	
Power supply range			187~253 VAC	187~253 VAC	187~253 VAC	
Energy Star Rating			✓	✓	✓	
NEEP Rating			✓	✓	✓	
Cooling performance	Rated cooling capacity (at 95°F)		Btu/h	9,000	12,000	18,000
	Cooling capacity range		Btu/h	3,700~11,400	3,900~13,800	4,000~18,800
	EER2 Rating		Btu/W.h	14.4	12.3	12.5
	SEER2 Rating		Btu/W.h	22.1	22.1	22.2
Heating performance	Rated Heating capacity (at 47°F)		Btu/h	11,000	12,000	18,000
	Rated Heating capacity (at 17°F)		Btu/h	7,900	8,600	14,000
	Heating capacity range		Btu/h	4,100~14,300	4,700~15,300	7,600~22,800
	HSPF2 Rating (Region IV)		Btu/W.h	11.8	10.0	12.2
	HSPF2 Rating (Region V)		Btu/W.h	9.0	7.8	8.6
	COP2 (at 47°F)		W/W	3.2	3.4	3.3
	Max. Heating capacity (at 5°F)		Btu/h	8,000	8,600	13,100
	Performance percentage			73%	72%	73%
	COP2 (at 5°F)		W/W	2.18	2.48	2.24
	Max. Heating capacity (at -4°F)		Btu/h	6,100	6,800	10,300
Max. Heating capacity (at -13°F)		Btu/h	5,000	5,000	8,100	
Rated power consumption	Cooling		W	925	975	1,440
	Heating		W	1,007	1,034	1,600
Rated power current	Cooling		A	4.2	4.4	6.4
	Heating		A	4.4	4.7	7.1
Min. circuit ampacity			A	12	12	18
Max. circuit breaker			A	15	15	20
Moisture removal			Pint/day	55	80	110
Refrigerant and room size specifications	Type		R454b (A2L rated refrigerant with a lower GWP rating of 466)			
	Amount		Ozs	32.5	32.5	48.0
	Sufficiency for max line set length		Ft	25	25	25
	Adjustment amount per feet		Ozs	0.16	0.16	0.16
	Recommended room size		Sq.Ft	250~350	350~500	500~750
	Refrigerant leakage detector module		Standard / Assembled in indoor unit			
Minimum room size (unit height 6')		SqF	37	37	54	
Air volume and sound level	Turbo/High/Med/Low/Mute		CFM	341/294/259/235	353/312/282/247	400/352/300/258
			dB(A)	46/38/34/24/22	47/43/38/26/22	48/44/41/30/24
Outdoor sound			dB(A)	54	54	58
Connecting pipe	Gas		In (OD)	3/8"	3/8"	1/2"
	Liquid		In (OD)	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	80	80	100
	Maximum allowable vertical run		Feet	50	50	65
Indoor unit dimensions and weight	Net unit dimensions (WxDxH)		Inch	50"-3/8 x 13"-1/4 x 10"	50"-3/8 x 13"-1/4 x 10"	50"-3/8 x 13"-1/4 x 10"
	Carton box dimensions (WxDxH)		Inch	57"-5/8 x 22"-1/2 x 22"-5/8	57"-5/8 x 22"-1/2 x 22"-5/8	57"-5/8 x 22"-1/2 x 22"-5/8
	Shipping factor			0.00323	0.00323	0.00323
	Net unit weight		Lbs	45.0	45.0	45.5
	Shipping weight		Lbs	82.0	82.0	83.0
Panel Grill dimensions and weight	Net unit dimensions (WxDxH)		Inch	25"-5/8 x 25"-5/8 x 2"-3/8	25"-5/8 x 25"-5/8 x 2"-3/8	25"-5/8 x 25"-5/8 x 2"-3/8
	Carton box dimensions (WxDxH)		Inch	Packed with the indoor unit inside same carton		
	Net unit weight		Lbs	15.0	15.0	15.0
	Shipping weight		Lbs	Packed with the indoor unit inside same carton		
Outdoor unit dimensions and weight	Net unit dimensions (WxDxH)		Inch	30"-1/8 x 12" x 21"-7/8	30"-1/8 x 12" x 21"-7/8	35" x 13"-1/2 x 26"-1/2
	Carton box dimensions (WxDxH)		Inch	35" x 13"-1/4 x 24"	35" x 13"-1/4 x 24"	39"-1/4 x 15"-5/8 x 29"-1/8
	Shipping factor			0.00284	0.00284	0.00505
	Net unit weight		Lbs	62.1	62.1	92.6
	Shipping weight		Lbs	67.7	67.7	100.3
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.