PIONEER®
QUANTUM Ultra™

CYB-20
DC INVERTER | HEAT PUMP

Ceiling Cassette Ductless Split Systems

- 19~20 SEER Ultra High Efficiency
- Heat Pump + DC Inverter in One System
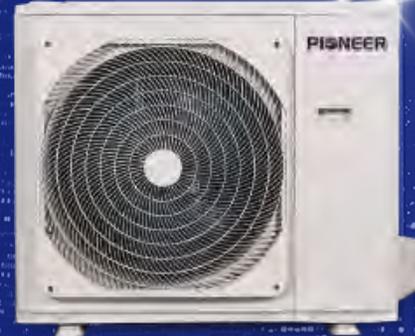- Single Zone (36,000~48,000 BTU/hr)
- 208V~230V, 60Hz, 1Ph
- Wireless Access Via Free Smartphone App

INVERTER++® TECHNOLOGY

R454b

Smart Airflow

High Efficiency

Insulated DESiGN

Cloud Connected

DUAL DRAINAGE

Low Noise

WORKS WITH
- amazon alexa
- Google Assistant
- Siri

neep

AHRI CERTIFIED www.ahridirectory.org — Unitary Small HP AHRI Standard 210/240 — Certification applies only when the complete system is listed with AHRI.

ETL c(ETL)us LISTED — Intertek

ISO 9001 CERTIFIED

72°F

Feature Icons

- Whisper-Quiet Operation
- Dual Drain Options
- LED Display
- Convenient Maintenance
- Eco-Friendly Refrigerant
- Customizable Timer
- Soft Breeze Airflow
- 3D Air Fow
- Ultra-Thin Design
- Power Loss Memory Recovery
- Rapid Delivery Output
- Energy Saving
- Wireless Control

STANDARD FEATURES

- Designed for Furred In, Flush to Ceiling Installation
- Cooling Only or Heat Pump Applications
- Ultra Slim Fully Cased Compact Cabinet Design
- Knockout Plates for Remote Ducted Drop Addition
- Full Galvanized Heavy Steel Casing for Indoor Units
- Newest 8-Way Air Discharge Louver Technology
- Digital LCD Screen Wireless Remote Controller
- Ultra-Quiet Air Delivery with High Performance
- Variable Speed ECM Indoor Fan Motors
- Heavy Gauge Closed Cell External Rubber Installation
- 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 R454B 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 Connections
- Highest Grade Components for Long Life Expectancy
- Ample Availability of Spare Parts and Accessories

Full System Model Number			CYB036GMSI20RL	CYB048GMSI20RL
neep	**Indoor Unit Model Number**		**CB036GMSILDFHG**	**CB048GMSILDFHG**
	Indoor Unit Model Code		22022511004516	22022511004496
	Outdoor Unit Model Number		**YN036GMSI20RUG**	**YN048GMSI20RUG**
	Outdoor Unit Model Code		22022516002464	22022516002442
System Type			QUANTUM ULTRA Series 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
Power supply range			187~253 VAC	187~253 VAC
Energy Star Rating			✗	✗
NEEP Rating			✓	✓
Cooling performance	Rated cooling capacity (at 95°F)	Btu/h	36,000	48,000
	Cooling capacity range	Btu/h	6,400~39,800	10,600~50,400
	EER2 Rating	Btu/W.h	9.6	9.5
	SEER2 Rating	Btu/W.h	20.0	19.0
Heating performance	Rated Heating capacity (at 47°F)	Btu/h	38,000	50,000
	Rated Heating capacity (at 17°F)	Btu/h	26,800	36,600
	Heating capacity range	Btu/h	14,400~42,200	19,900~61,700
	HSPF2 Rating (Region IV)	Btu/W.h	10.3	9.9
	HSPF2 Rating (Region V)	Btu/W.h	7.9	7.7
	COP2 (at 47°F)	W/W	3.31	2.96
	Max. Heating capacity (at 5°F)	Btu/h	26,600	40,500
	Performance percentage		70%	81%
	COP2 (at 5°F)	W/W	2.2	2.11
	Max. Heating capacity (at -4°F)	Btu/h	20,800	32,100
	Max. Heating capacity (at -13°F)	Btu/h	16,500	25,300
Rated power consumption	Cooling	W	3,720	5,053
	Heating	W	3,365	4,950
Rated power current	Cooling	A	16.4	22.5
	Heating	A	15.0	22.1
Min. circuit ampacity		A	33	39
Max. circuit breaker		A	35	40
Moisture removal		Pint/day	210	315
Refrigerant and room size specifications	Type		R454b (A2L rated refrigerant with a lower GWP rating of 466)	
	Amount	Ozs	91.7	127.0
	Sufficiency for max line set length	Ft	25	25
	Adjustment amount per feet	Ozs	0.32	0.32
	Recommended room size	Sq.Ft	1,000~1,400	1,400~1,800
	Refrigerant leakage detector module		Standard / Assembled in indoor unit	
	Minimum room size (unit height 6')	**SqF**	**103**	**143**
Air volume and sound level	Turbo/High/Med/Low/Mute	CFM	1,042/948/853/753/689	1,236/1,124/1,018/800/689
		dB(A)	54/52/47/40/36	56/52/50/42/38
Outdoor sound		dB(A)	63	64
Connecting pipe	Gas	In (OD)	3/4"	3/4"
	Liquid	In (OD)	3/8"	3/8"
	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	250	250
	Maximum allowable vertical run	Feet	100	100
Indoor unit dimensions and weight	Net unit dimensions (WxDxH)	Inch	32"-5/8 x 32"-5/8 x 9"-5/8	32"-5/8 x 32"-5/8 x 11"-3/8
	Carton box dimensions (WxDxH)	Inch	35"-7/8 x 35"-7/8 x 11"-3/8	35"-7/8 x 35"-7/8 x 13"
	Shipping factor		0.00427	0.00481
	Net unit weight	Lbs	59.3	64.5
	Shipping weight	Lbs	71.5	76.1
Panel Grill dimensions and weight	Net unit dimensions (WxDxH)	Inch	37"-3/8 x 37"-3/8 x 2"-1/8	37"-3/8 x 37"-3/8 x 2"-1/8
	Carton box dimensions (WxDxH)	Inch	40"-3/4 x 40"-3/4 x 3"-1/2	40"-3/4 x 40"-3/4 x 3"-1/2
	Net unit weight	Lbs	13.2	13.2
	Shipping weight	Lbs	19.8	19.8
Outdoor unit dimensions and weight	Net unit dimensions (WxDxH)	Inch	37"-1/4 x 16"-1/4 x 31"-7/8	37"-1/2 x 16"-3/8 x 52"-1/2
	Carton box dimensions (WxDxH)	Inch	42"-7/8 x 19"-5/8 x 34"-7/8	43"-1/8 x 19"-1/2 x 57"-1/2
	Shipping factor		0.00725	0.02083
	Net unit weight	Lbs	152.4	208.8
	Shipping weight	Lbs	162.5	239.8
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.**