

PIONEER® QUANTUM Ultra™

Floor-Mounted Console Split Systems

23~24 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



FYB-24

DC INVERTER HEAT PUMP



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

- Designed for Vertical Floor Mounted Installation
- Cooling Only or Heat Pump Applications
- Ultra Slim Fully Cased Compact Cabinet Design
- Floor Mounted or Low Wall Attached Positions
- Full ABS Plastic Casing for Indoor Units
- Auto Sweep 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 Internal 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			FYB012GMSI24RL	FYB018GMSI24RL
	Indoor Unit Model Number		FB012GMSILDHFG	FB018GMSILDHFG
	Indoor Unit Model Code		22022611000327	22022611000347
	Outdoor Unit Model Number		YN012GMSI24RPG	YN018GMSI24RPG
	Outdoor Unit Model Code		22022516002402	22022516002362
System Type			QUANTUM ULTRA Series Floor Console 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	12,000	16,000
	Cooling capacity range	Btu/h	4,000~13,100	4,700~18,000
	EER2 Rating	Btu/W.h	12.7	12.5
	SEER2 Rating	Btu/W.h	24.6	23.8
Heating performance	Rated Heating capacity (at 47°F)	Btu/h	12,000	17,000
	Rated Heating capacity (at 17°F)	Btu/h	9,000	14,100
	Heating capacity range	Btu/h	5,100~12,900	7,300~22,900
	HSPF2 Rating (Region IV)	Btu/W.h	11.0	13.5
	HSPF2 Rating (Region V)	Btu/W.h	8.2	9.4
	COP2 (at 47°F)	W/W	3.9	3.4
	Max. Heating capacity (at 5°F)	Btu/h	8,900	13,100
	Performance percentage		74%	77%
	COP2 (at 5°F)	W/W	2.5	2.16
	Max. Heating capacity (at -4°F)	Btu/h	6,300	10,100
Max. Heating capacity (at -13°F)	Btu/h	4,600	8,000	
Rated power consumption	Cooling	W	960	1,280
	Heating	W	897	1,478
Rated power current	Cooling	A	4.2	5.8
	Heating	A	4.0	6.7
Min. circuit ampacity		A	11	12
Max. circuit breaker		A	15	20
Moisture removal		Pint/day	80	110
Refrigerant and room size specifications	Type		R454b (A2L rated refrigerant with a lower GWP rating of 466)	
	Amount	Ozs	32.5	48.0
	Sufficiency for max line set length	Ft	25	25
	Adjustment amount per feet	Ozs	0.16	0.16
	Recommended room size	Sq.Ft	300~500	500~750
	Refrigerant leakage detector module		Standard / Assembled in indoor unit	
	Minimum room size (mounting opt.)	SqF	154	227
Air volume and sound level	Turbo/High/Med/Low/Mute	CFM	441/386/324/188	500/441/382/324
		dB(A)	39/34.5/29.5	41.5/39/28.5
Outdoor sound		dB(A)	55	57
Connecting pipe	Gas	In (OD)	3/8"	1/2"
	Liquid	In (OD)	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)	
	Maximum allowable length	Feet	50	65
	Maximum allowable vertical run	Feet	33	50
Indoor unit dimensions and weight	Net unit dimensions (WxDxH)	Inch	31"-1/4 x 7"-7/8 x 24"-1/2	31"-1/4 x 7"-7/8 x 24"-1/2
	Carton box dimensions (WxDxH)	Inch	34"-1/8 x 11" x 28"-3/8	34"-1/8 x 11" x 28"-3/8
	Shipping factor		0.00256	0.00256
	Net unit weight	Lbs	32.9	32.9
	Shipping weight	Lbs	41.9	41.9
Outdoor unit dimensions and weight	Net unit dimensions (WxDxH)	Inch	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"	39"-1/4 x 15"-5/8 x 29"-1/8
	Shipping factor		0.00284	0.00505
	Net unit weight	Lbs	62.1	92.6
	Shipping weight	Lbs	77.7	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.**