



Freedom Series

Inverter Flexible Combination System



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Authorized Dealer:



Carrier InterAmerica Corporation
Miami, Florida USA
www.ciac-comfort.com

freedom-SL-1

FREEDOM HORIZONTAL DISCHARGE INVERTER HEAT PUMP

Features and Benefits:

- Inverter control
- Heavy Gauge Steel Cabinet
- Sound Levels down to 56 DB
- Low Ambient Cooling down to 5 deg °F
- R410A Refrigerant
- Multi-point Diagnostics



Outdoor Unit HP Inverter		CM43AX018-H3H1H	CM43AX024-H3H1H	CM43AX030-H3H1H	CM43AX036-H3H1H	CM43AX042-H3H1H	CM43AX048-H3H1H
System Type		Heat Pump					
Power Supply		208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz
Rated Current Cooling	Amps	11.5	17.5	18.1	21.5	22.0	32.5
Rated Current Heating	Amps	11.1	18.4	19.0	22.5	22.7	32.2
Cooling Capacity (Min-Max)*	Btu/h	17,100 (5,459-18,765)	23,800 (8,188-29,002)	28,200 (8,871-31,390)	34,000 (10,920-39,250)	39,238 (11,260-39,238)	47,768 (20,472-50,498)
Heating Capacity (Min-Max)*	Btu/h	18,400(4,776-22,178)	27,200 (8,188-32,414)	31,200 (8,188-33,778)	40,800 (9,890-48,490)	44,356 (12,283-51,180)	54,592 (17,742-61,416)
SEER/EER		16/10.0	18/10.6	20/10.4	18/10.3	17/8.9	17/8.7
HSPF/COP		9.5/3.0	10.0/3.4	10.0/3.7	10.0/3.2	10.0/2.9	10.0/3.3
Compressor Type		DC Inverter-driven Twin rotary					
Sound Pressure Level	"db(A)"	56	57	58	63	61	59
Unit Dimensions (LxWxH)	inches	37.6 x 27.6 x 15.6	38.6 x 31.1 x 16.8	38.6 x 31.1 x 16.8	43.6 x 43.3 x 17.3	37.7 x 53.1 x 16.2	37.7 x 53.1 x 16.2
Package Dimensions (LxWxH)	inches	40.5 x 29.5 x 18.0	42.6 x 33.7 x 19.2	42.6 x 33.7 x 19.2	45.6 x 48.6 x 19.4	41.1 x 59.1 x 17.8	41.1 x 59.1 x 17.8
Net / Gross Weight	lbs	104/110	148/159	157/168	203/221	209/232	232/254
Refrigerant / Charge	oz.	R410A / 49.4	R410A / 77.6	R410A / 84.7	R410A / 123.5	R410A / 130.5	R410A / 141.1
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared
Pre-Charge	Feet	25	25	25	25	25	25
Max. Line Run	Feet	65	100	100	100	165	165
Max. Elevation	Feet	50	66	50	66	100	100
MCA	Amps	11	17	18	21	22	32
MOCP/Breaker Size	Amps	15	20	20	25	25	40
Interconnecting Wire		AWG14 / 4					
Ambient Cooling Operating Range	°F	0-115					
Ambient Heating Operating Range	°F	0-275					

*Based on Cassette Indoor Unit combination

FREEDOM CASSETTE INVERTER

Features and Benefits:

- 4 - way Discharge Air
- Multi Speed Fan
- Remote Control Lockout
- Swing Louver
- Cleanable Air Filter
- Decorative Discharge Air Grille (sold separately)
- IR Remote Control and Tether Wired Controller
- Power Failure Recovery
- Internal Condensate Drain Pump
- Sentry Float Switch



Outdoor Unit HP Inverter		CK43AX018-C3H1H	CK43AX024-C3H1H	CK43AX030-C3H1H	CK43AX036-C3H1H	CK43AX042-C3H1H	CK43AX048-C3H1H
System Type		Heat Pump					
Power Supply		208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz
Cooling Capacity (Min-Max)*	Btu/h	17,100 (5,459-18,765)	23,800 (8,188-29,002)	28,200 (8,871-31,390)	34,000 (10,920-39,250)	39,238 (11,260-39,238)	48,768 (20,472-50,498)
Heating Capacity (Min-Max)*	Btu/h	18,400(4,776-22,178)	27,200 (8,188-32,414)	31,200 (8,188-33,778)	40,800 (9,890-48,490)	44,356 (12,283-51,180)	54,592 (17,742-61,416)
Airflow (max)	CFM	447	765	883	1,095	1,095	1,354
Sound Pressure Level (H/MH/ML/L)	db (A)	47/46/44/37	47/46/42/38	49/48/45/40	51/49/46/43	51/49/46/43	53/52/47/41
Unit Dimensions (LxWxH)	inches	23.5 x 23.5 x 9.4	36.1 x 33.1 x 9.4	33.1 x 33.1 x 12.6	33.1 x 33.1 x 12.6	36.1 x 32.8 x 12.6	35.8 x 35.8 x 11.4
Package Dimensions (LxWxH)	inches	30.4 x 28.9 x 11.8	37.9 x 37.9 x 12.8	37.9 x 37.9 x 16.1	37.9 x 37.9 x 16.1	37.9 x 37.9 x 16.1	40.3 x 39.1 x 14.8
Net / Gross Weight	lbs	44/59	57/71	68/84	68/84	68/84	95/110
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared
		Panel					
Unit Dimensions (LxWxH)	inches	26.4 x 26.4 x 2.0	37.4 x 37.4 x 2.4	37.4 x 37.4 x 2.4	37.4 x 37.4 x 2.4	37.4 x 37.4 x 2.4	40.9 x 40.9 x 2.6
Package Dimensions (LxWxH)	inches	30.0 x 30.0 x 4.1	40.5 x 41.1 x 5.1	40.5 x 41.1 x 5.1	40.5 x 41.1 x 5.1	40.5 x 41.1 x 5.1	44.8 x 44.8 x 5.5
Net / Gross Weight	lbs	8/11	15/24	15/24	15/24	15/24	18/26

FREEDOM SLIM DUCT EVAPORATOR

Features and Benefits:

- Medium Static Pressure Capability
- Slim Line Construction 7-7/8" high
- Flexible Return Air From Bottom or Rear
- Internal Condensate Drain Pump
- Sentry Float Switch
- Environmentally Safe R-410A Refrigerant



Outdoor Unit HP Inverter		CC43AX018-E3H1H	CC43AX024-E3H1H	CC43AX030-E3H1H	CC43AX036-E3H1H	CC43AX042-E3H1H	CC43AX048-E3H1H
System Type		Heat Pump					
Power Supply		208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz
Cooling Capacity (Min-Max)*	Btu/h	17,100 (5,459-19,789)	23,800 (8,188-27,978)	28,200 (8,871-31,390)	34,000 (10,920-39,250)	39,238 (12,283-42,650)	47,768 (20,472-49,474)
Heating Capacity (Min-Max)*	Btu/h	18,800 (4,776-23,201)	27,200 (8,188-30,708)	31,200 (8,188-33,778)	40,800 (9,890-48,490)	44,356 (13,306-52,886)	54,592 (17,742-58,004)
Airflow (max)	CFM	589	824	824	1,177	1,177	1,471
Sound Pressure Level (H/MH/ML/L)	db (A)	40/39/36/28	47/46/44/40	47/46/44/40	53/52/48/44	53/52/48/44	55/53/49/45
Unit Dimensions (LxWxH)	inches	40.8 x 10.8 x 28.4	50.4 x 10.6 x 22.0	50.4 x 10.6 x 22.0	48.3 x 11.4 x 30.5	48.3 x 11.4 x 30.5	52.8 x 13.8 x 29.5
Package Dimensions (LxWxH)	inches	44.2 x 12.7 x 31.4	53.1 x 11.1 x 23.5	53.1 x 11.1 x 23.5	52.7 x 12.0 x 34.5	52.7 x 12.0 x 34.5	56.0 x 17.0 x 33.0
Net / Gross Weight	lbs	73/84	75/86	75/86	101/117	101/117	124/143
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared

FREEDOM FLOOR CEILING INVERTER

Features and Benefits:

- 4-way Discharge Air
- Multi Speed Fan
- IR Remote Control
- Tether Wired Controller
- Swing Louver
- Remote Control Lockout
- Power Failure Recovery



Outdoor Unit HP Inverter		CF43AX018-M3H1H	CF43AX024-M3H1H	CF43AX030-M3H1H	CF43AX036-M3H1H	CF43AX042-M3H1H	CF43AX048-M3H1H
System Type		Heat Pump					
Power Supply		208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz	208/230V / 60Hz
Cooling Capacity (Min-Max)*	Btu/h	17,100 (5,459-19,789)	23,800 (8,188-27,978)	28,200 (8,871-31,390)	34,000 (10,920-39,250)	39,238 (12,283-42,650)	47,768 (20,472-50,498)
Heating Capacity (Min-Max)*	Btu/h	19,100 (4,776-23,201)	27,200 (8,188-30,708)	31,200 (8,188-33,778)	40,800 (9,890-48,490)	44,356 (13,306-52,886)	54,592 (17,742-61,416)
Airflow (max)	CFM	589	706	883	1,118	1,118	1,354
Sound Pressure Level (H/MH/ML/L)	db (A)	44/42/38/32	49/48/46/40	49/46/44/38	54/53/51/46	55/53/51/46	56/55/50/46
Unit Dimensions (LxWxH)	inches	40.8 x 10.5 x 28.4	50.4 x 10.6 x 22.0	50.4 x 10.6 x 22.0	48.3 x 11.4 x 30.5	48.3 x 11.4 x 30.5	52.8 x 13.8 x 29.5
Package Dimensions (LxWxH)	inches	44.2 x 12.7 x 31.3	53.1 x 11.1 x 23.5	53.1 x 11.1 x 23.5	52.7 x 12.0 x 34.5	52.7 x 12.0 x 34.5	56.0 x 17.9 x 33.0
Net / Gross Weight	lbs	73/84	75/86	75/86	101/117	101/117	123/143
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared	3/8" - 5/8" Flared