



# CIAC<sup>®</sup>

Comfort and intelligence in air conditioning<sup>®</sup>

## Freedom Series

Inverter Flexible Combination System



# 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



**R-410A**  
REFRIGERANT



Outdoor Unit HP Inverter		CM43AX018-H3H1H	CM43AX024-H3H1H	CM43AX030-H3H1H	CM43AX036-H3H1H	CM43AX042-H3H1H	CM43AX048-H3H1H	CM43AX060-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	220/240V / 60Hz
Rated Current Cooling	Amps	11.5	17.5	18.1	21.5	22.0	32.5	35.0
Rated Current Heating	Amps	11.1	18.4	19.0	22.5	22.7	32.2	34.0
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)	55,900 (22,100-55,900)
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)	62,700 (17,700-62,700)
SEER/EER		16/10	18/10.6	20/10	16/10.3	16/8.9	16/8.2	16/9.6
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	10/3.39
Compressor Type		DC Inverter-driven Twin rotary						
Sound Pressure Level	"db(A)"	56	57	58	63	61	59	63
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	42.7 x 53.7 x 16.7
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	45 x 59.3 x 18.8
Net / Gross Weight	lbs	104/110	148/159	157/168	203/221	209/232	232/254	267/293
Refrigerant / Charge	oz.	R410A / 49.4	R410A / 77.6	R410A / 84.7	R410A / 123.5	R410A / 130.5	R410A / 141.1	R410A / 194
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	3/8" - 5/8" Flared
Pre-Charge	Feet	25	25	25	25	25	25	25
Max. Line Run	Feet	65	100	100	100	165	165	165
Max. Elevation	Feet	50	66	50	66	100	100	100
MCA	Amps	11	17	18	21	22	32	32
MOCP/Breaker Size	Amps	15	20	20	25	25	40	40
Ambient Cooling Operating Range	°F	0~115						
Ambient Heating Operating Range	°F	0~275						

All models have AHRI & ETL Certifications except 60K models. CE Certification for all 60K models.

\*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



**R-410A**  
REFRIGERANT



Indoor Unit HP Inverter		CK43AX018-C3H1H	CK43AX024-C3H1H	CK43AX030-C3H1H	CK43AX036-C3H1H	CK43AX042-C3H1H	CK43AX048-C3H1H	CK43AX060-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	220/240V / 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)	47,768 (20,472-50,498)	55,900 (22,100-55,900)
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)	62,700 (17,700-62,700)
Airflow (max)	CFM	447	765	883	1,095	1,095	1,354	1,412
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	53/47/41
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	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	40.3 x 39.1 x 14.8
Net / Gross Weight	lbs	44/59	57/71	68/84	68/84	68/84	95/110	95/110
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared					
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	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 44.8x 5.5	44.8 x 44.8x 5.5
Net / Gross Weight	lbs	8/11	15/24	15/24	15/24	15/24	18/26	18/26

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# 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



**R-410A**  
REFRIGERANT



Outdoor Unit HP Inverter		CC43AX018-E3H1H	CC43AX024-E3H1H	CC43AX030-E3H1H	CC43AX036-E3H1H	CC43AX042-E3H1H	CC43AX048-E3H1H	CC43AX060-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	220/240 / 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)	61,400 (23,200-61,400)
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)	68,200 (18,000-68,200)
Airflow (max)	CFM	589	824	824	1,177	1,177	1,471	1,766
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	56/54/49
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	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	56.0 x 17.0 x 33.0
Net / Gross Weight	lbs	73/84	75/86	75/86	101/117	101/117	124/143	126/157
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared					

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# 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



**R-410A**  
REFRIGERANT



Outdoor Unit HP Inverter		CF43AX018-M3H1H	CF43AX024-M3H1H	CF43AX030-M3H1H	CF43AX036-M3H1H	CF43AX042-M3H1H	CF43AX048-M3H1H	CF43AX060-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	220/240V / 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)	59,300 (21,600-59,300)
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)	68,200 (18,700-68,200)
Airflow (max)	CFM	589	706	883	1,118	1,118	1,354	1,471
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	56/52/46
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	67 x 9.7 x 27.6
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	72 x 13.6 x 32.6
Net / Gross Weight	lbs	73/84	75/86	75/86	101/117	101/117	123/143	130/150
Line Set Size (Liquid - Suction)	inches	1/4" - 1/2" Flared	3/8" - 5/8" Flared					

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The photos of products on the cover are for reference only, the actual appearance of certain product may be different.

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