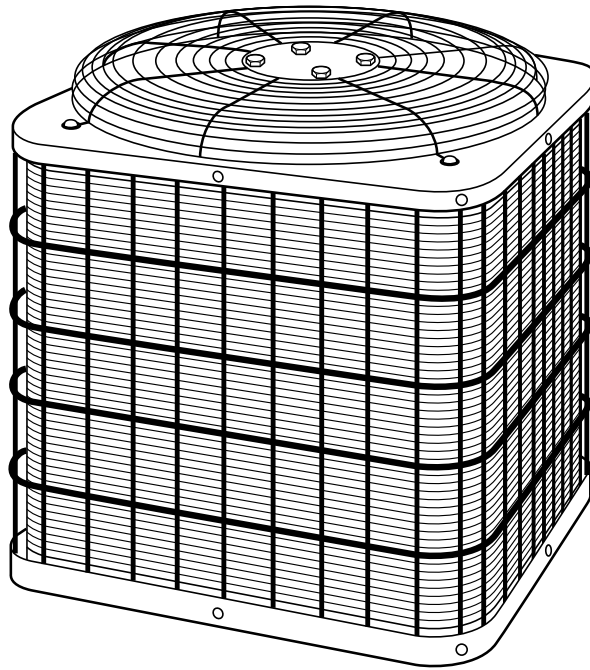


HC1C HEAT PUMP



FEATURES

AVAILABLE SIZES:	18,000 to 60,000 Btuh	SERVICE VALVES:	Brass front seating type with sweat connections externally located for quick and easy connections. Each valve has a service port for ease of checking operating refrigerant pressures.
NOMINAL EFFICIENCY RATINGS:	12.0 SEER 7.0 HSPF	SERVICEABILITY:	One access panel provides access to electrical controls. Removal of top gives access to fan motor, condenser coil, and compressor.
CERTIFICATION:	UL, c-UL, ARI, and CEC Listed	CABINET:	The top and access panels are protected with a galvanized coating and treated with a layer of zinc phosphate. A coat of modified polyester powder coating is then applied and baked-on, providing unit with a hard, smooth finish that will last for years.
ELECTRICAL RANGE:	208–230v, 60 Hertz, 1 Phase		
COMPRESSOR PROTECTION:	Each compressor is protected with internal temperature- and current-sensitive overloads. An internal pressure relief valve provides high-pressure protection to the refrigerant system.		
FAN MOTOR:	Totally enclosed for greater reliability under rain conditions. Permanent split-capacitor type for economical operation.		
COIL DESIGN:	Copper tube, enhanced sine wave aluminum fin for optimum heat transfer. Vertical air discharge carries sound and hot condenser air away from adjacent patio areas and foliage.		

HC1C METERING DEVICE

UNIT SIZE-SERIES	OUTDOOR PISTON	INDOOR TXV*
018-A	43	KHATX0901HSO
024-A	52	KHATX1001HSO
030-A	55	KHATX1101HSO
036-A	63	KHATX1201HSO
042-A	65	KHATX1201HSO
048-B	73	KHATX1301HSO
060-B	78	KHATX1401HSO

* TXV must be ordered separately when indoor coil is not equipped with a TXV.
 TXV listed is for any approved coil combination. All TXVs are bi-flow, hard
 shutoff.



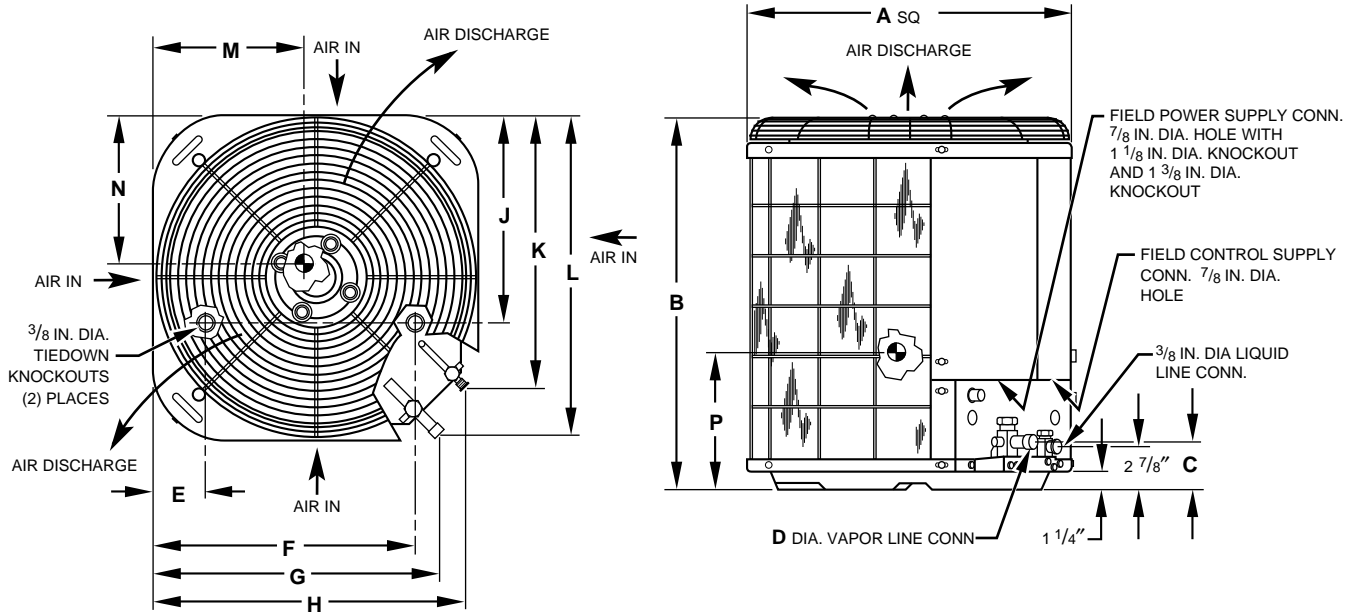
CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI.



CERTIFICATION OF MANUFACTURING SITE.

UNIT	SERIES	ELEC CHAR	A	B	C	D	E	F	G	H	J	K	L	M	N	P	SHIPPING WEIGHT
			In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
HC1C018	A	X	22 1/2	37 15/16	3 3/16	5/8	3 11/16	18 1/8	19 3/4	21 5/8	14 3/8	18 7/8	22 1/16	10 3/4	11	14 1/4	144
HC1C024	A	X	30	27 15/16	3 3/16	3/4	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	15 1/2	15	11 3/4	171
HC1C030	A	X	30	39 15/16	3 3/16	3/4	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	15 3/4	14 3/4	16 3/4	193
HC1C036	A	X	30	29 15/16	3 3/16	3/4	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	14 1/4	15	14	213
HC1C042	A	X	30	29 15/16	3 1/4	7/8	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	15 1/2	14 3/4	14 1/4	214
HC1C048	A,B	X	30	33 15/16	3 1/4	7/8	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	15 1/2	14 1/4	14 1/2	255
HC1C060	A,B	X	30	39 15/16	3 1/4	7/8	6 1/2	23 1/2	27 1/4	29 1/8	20	26 3/8	29 9/16	14 3/4	13 1/2	15 1/2	283

208-230-1-60



NOTES:

1. Allow 30 In. clearance to service side of unit, 48 In. above unit, 6 In. on one side, 12 In. on remaining side, and 24 In. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F(13°C), max 125°F(52°C).
3. Series designation is the 13th position of the unit model number.
4. Center of gravity ☉

HA1C UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS (In.)	HB1C, HC1C UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS (In.)
18, 24, 30	22 1/2 x 22 1/2	18	22 1/2 x 22 1/2
36, 42, 48, 60	30 x 30	24, 30, 36, 42, 48, 60	30 x 30

A96239

HC1C SPECIFICATIONS

UNIT SIZE-SERIES	018-A	024-A	030-A	036-A
Operating Weight (Lb)	139	166	188	208
ELECTRICAL				
Unit Volts—Hertz—Phase	208-230—60—1			
Operating Voltage Range*	197—253			
Unit Ampacity for Wire Sizing	11.1	15.3	18.8	23.3
Min Wire Size (60°C/75°C Copper) (AWG)†	14/14		12/12	
Maximum Length (60°C/75°C) (Ft)‡	71/66	51/49	42/40	54/51
Max Branch Circuit Fuse** or HACR-Type Circuit Breaker Size (Amps)	15	25	30	40
Compressor Rated Load Amps	8.5	11.5	14.3	17.9
Locked Rotor Amps	48	62.5	76.0	90.5
Fan Motor HP & RPM	1/12 & 1100		1/8 & 825	
Full Load Amps	0.5			
0.9				
COMPRESSOR AND REFRIGERANT				
Manufacturer Compressor	Bristol Reciprocating		Copeland Scroll	
Refrigerant Charge (Lb) @ 15 Ft—R22	5.50	6.06	7.13	11.00
Refrigerant Tubes In. (OD) Vapor & Liquid (up to 50 Ft)	5/8 & 3/8		3/4 & 3/8	
OUTDOOR COIL & FAN				
Coil Face Area (Sq Ft)	14.07	14.93	22.40	16.18
Rated Airflow (CFM)	1700	1900	3300	
OPTIONAL EQUIPMENT				
Heat Pump Risers	P165-0001 (RCD) (2 REQ'D/UNIT)			
Time-Delay Relay	KAATD0101TDR			
Energy Minder/Interface Control	KHAIC0101AAA/KHAIC0201AAA†††			
Service Alarm	KHASA0101AAA			
Outdoor Thermostat	KHAOT0301FST			
Secondary Outdoor Thermostat	KHAOT0201SEC			
Cycle Protector	Standard			
Crankcase Heater	KAACH1001AAA	KAACH1201AAA		
Compressor Start Assist-PTC	N/A	KAACS0201PTC		
Compressor Start Assist (Capacitor/Relay)	Standard	KSAHS0401AAA		
Sound Blanket	KSASH1501BRL	KSASH1801COP		KSASH0601COP
Bi-flow TXV Kits (Hard Shutoff)	KHATX0901HSO	KHATX1001HSO	KHATX1101HSO	KHATX1201HSO
Bi-flow TXV Kits (RPB)	N/A			
Low-Pressure Switch	Standard			
High-Pressure Switch	KSAHI0201HPS	Standard		
Filter Drier—Bi-flow	P504-8083S (RCD)			
Low-Ambient Controller	P251-0083 (RCD)†††			
Evaporator Freeze Thermostat	KAAFT0101AAA††			
Isolation Relay	KHAIR0101AAA††			
Winter Start Control	N/A			
Liquid Solenoid Valve (LSV)	KHALS0101LLS			
MotorMaster® Control	32LT66004 (RCD)†††			
Ball Bearing Fan Motor	HC34GE231 (RCD)	HC38GE230 (RCD)		
Thermostat, Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATXXNHP01***			
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATXXPHP01-A***			
Thermostat, Manual Changeover, Non-Programmable, °F, 2-Stage Heat, 1-Stage Cool	--HH--07AT-215 (Carrier) HH07AT214 (BDP)			
Thermostat, Auto Changeover, Non-Programmable, °F/°C Dual Fuel Thermostat, Must be used with Outdoor Sensor (TSTATBBSEN01)	TSTATBBPDF01-A****			
Outdoor Sensor	TSTATCCSEN01 (Carrier) TSTATBBSEN01 (BDP)			

See notes on page 5.

HC1C SPECIFICATIONS Continued

UNIT SIZE	042-A	048-B	060-B
Operating Weight (Lb)	209	250	278
ELECTRICAL			
Unit Volts—Hertz—Phase	208-230—60—1		
Operating Voltage Range*	197—253		
Unit Ampacity for Wire Sizing	29.0	32.5	41.5
Min Wire Size (60°C/75°C Copper) (AWG)†	10/10	8/10	6/8
Maximum Length (60°C/75°C) (Ft)‡	69/65	95/58	126/71
Max Branch Circuit Fuse** or HACR-Type Circuit Breaker Size (Amps)	50	55	60
Compressor Rated Load Amps	22.5	25.3	32.1
Locked Rotor Amps	107.0	129.0	169.0
Fan Motor HP & RPM	1/8 & 825		1/4 & 1125
Full Load Amps	0.9		1.4
COMPRESSOR AND REFRIGERANT			
Manufacturer Compressor	Copeland Scroll		
Refrigerant Charge (Lb) @ 15 Ft—R22	10.38	11.75	14.0
Refrigerant Tubes (In. OD) Vapor & Liquid (Up to 50 Ft)	7/8 & 3/8	1-1/8 & 3/8	
OUTDOOR COIL & FAN			
Coil Face Area (Sq Ft)	16.18	18.67	22.40
Rated Airflow (CFM)	3000		3300
OPTIONAL EQUIPMENT			
Heat Pump Risers	P165-0001 (RCD) (2 REQ'D/UNIT)		
Time-Delay Relay	KAATD0101TDR		
Energy Minder/Interface Control	KHAIC0101AAA/KHAIC0201AAA†††		
Service Alarm	KHASA0101AAA		
Outdoor Thermostat	KHAOT0301FST		
Secondary Outdoor Thermostat	KHAOT0201SEC		
Cycle Protector	Standard		
Crankcase Heater	KAACH1201AAA	Standard	
Compressor Start Assist-PTC	KAACS0201PTC		
Compressor Start Assist (Capacitor/Relay)	KSAHS0401AAA		
Sound Blanket	KSASH0601COP	KSASH2101COP	
Bi-flow TXV Kits (Hard Shutoff)	KHATX1201HSO	KHATX1301HSO	KHATX1401HSO
Bi-flow TXV Kits (RPB)	N/A		
Low-Pressure Switch	Standard		
High-Pressure Switch	Standard	KHAHI0201HPS	
Filter Drier—Bi-flow	P504-8163S (RCD)		
Low-Ambient Controller	P251-0083 (RCD)††		
Evaporator Freeze Thermostat	KAAFT0101AAA‡‡		
Isolation Relay	KHAIR0101AAA‡‡		
Winter Start Control	N/A		
Liquid Solenoid Valve (LSV)	KHALS0101LLS		
MotorMaster® Control	32LT66004 (RCD)‡‡‡		
Ball Bearing Fan Motor	HC38GE230 (RCD)		HC40GE230 (RCD)
Thermostat, Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATXXNHP01***		
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATXXPHP01-A***		
Thermostat, Manual Changeover, Non-Programmable, °F, 2-Stage Heat, 1-Stage Cool	--HH--07AT-215 (Carrier) HH07AT214 (BDP)		
Thermostat, Auto Changeover, Non-Programmable, °F/°C Dual Fuel Thermostat. Must be used with Outdoor Sensor (TSTATBBSEN01)	TSTATBBPDF01-A****		
Outdoor Sensor	TSTATCCSEN01 (Carrier)		TSTATBBSEN01 (BDP)

* Permissible limits of the voltage range at which the unit will operate satisfactorily. Operation outside these limits may result in unit failure.

† If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEC (ANSI/NFPA 70). The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conductors, per the NEC (ANSI/NFPA 70) Article 336-30.

‡ If other than uncoated (non-plated), 60°C or 75°C (140° or 167°F) insulation, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

‡ Length shown is as measured 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.

** Time-delay fuse.

†† Isolation relay required.

‡‡ Use with low-ambient controller.

*** Where XX appears, insert BB for Bryant, CC for Carrier, DD for Day & Night, or PP for Payne brand.

††† KHAIC0101AAA requires Outdoor Thermostat KHAOT0301AAA.

‡‡‡ Fan Motor with ball bearings required.

**** This thermostat is Bryant only; High pressure switch must be added if not supplied with the system.

N/A—Not Applicable

NOTE: Control circuit is 24v on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

HC1C COMBINATION RATINGS

UNIT SIZE-SERIES	INDOOR UNIT	ARI STANDARD RATINGS*										
		Cooling					Heating					Sound Rating (dBA)
		TC	Seasonal Efficiency SEER				High-Temp		Low-Temp		Seasonal Efficiency HSPF	
			Factory-Supplied Enhancement	Standard Rating	Field-Supplied Accessory		TC	COP	TC	COP		
TXV**	TXV & TDR											
018-A	F(A,B)4ANF024†	18,700	TDR	—	12.00	—	16,600	3.08	11,300	2.30	7.50	78
	F(A,B)4ANF018	17,400	TDR	—	11.30	—	16,100	2.92	11,000	2.24	7.00	78
	FC4BNF024	18,800	TDR & TXV	12.00	—	—	16,600	3.08	11,300	2.30	7.50	78
	F(A,B)4AN(A,F)024	19,000	TDR	—	12.00	—	16,600	3.08	11,300	2.30	7.50	78
	FD3ANA018	17,800	None	—	—	11.50	16,200	2.96	11,100	2.26	7.00	78
	FD3ANA024	18,400	None	—	—	12.00	16,300	3.10	11,100	2.34	7.50	78
	FF1(A,B)NA018	17,600	None	—	—	11.50	16,000	2.98	10,900	2.26	7.00	78
	FF1(A,B)NA024	18,800	None	—	—	12.00	16,500	3.12	11,200	2.32	7.50	78
	FG3AAA024	18,400	None	—	—	11.50	16,400	3.06	11,200	2.30	7.50	78
	FK4CNF001	18,800	TDR & TXV	13.20	—	—	15,700	3.28	10,600	2.50	8.00	78
	FK4CNF002	19,000	TDR & TXV	13.50	—	—	15,800	3.34	10,600	2.52	8.00	78
	CC5A/CD5A/CD5BA018	17,800	None	—	—	11.50	16,000	2.88	11,000	2.22	7.00	78
	CD3(A,B)A018	17,800	None	—	—	11.50	16,000	2.88	11,000	2.22	7.00	78
	CC5A/CD5A/CD5BA024	18,500	None	—	—	11.50	16,300	3.02	11,200	2.28	7.20	78
	CD3(A,B)A024	18,500	None	—	—	11.50	16,300	3.02	11,200	2.28	7.20	78
	CE3AA024	18,500	None	—	—	12.00	16,400	3.06	11,200	2.30	7.20	78
	CF5AA024	18,500	None	—	—	12.00	16,400	3.04	11,200	2.30	7.20	78
CG5AA024	18,500	TXV	11.50	—	12.00	16,400	3.04	11,200	2.30	7.20	78	
024-A	F(A,B)AN(A,F)030†	23,000	TDR	—	12.00	—	23,600	3.32	14,900	2.24	7.50	78
	FB5AN(A,F)030	22,600	TDR	—	11.80	—	23,600	3.22	14,900	2.20	7.45	78
	F(A,B)4AN(A,F)024	22,600	TDR	—	11.70	—	23,600	3.32	14,900	2.24	7.50	78
	FC4BNF024	22,600	TDR & TXV	11.70	—	—	23,600	3.32	14,900	2.24	7.50	78
	FC4BNF030	23,000	TDR & TXV	12.00	—	—	23,600	3.32	14,900	2.24	7.50	78
	FD3ANA024	22,200	None	—	—	11.70	23,600	3.28	14,800	2.22	7.40	78
	FD3ANA030	23,200	None	—	—	12.10	23,600	3.42	14,900	2.28	7.50	78
	FF1(A,B)NA024	22,600	None	—	—	11.70	23,600	3.32	14,900	2.22	7.50	78
	FF1(A,B)NA030	23,200	None	—	—	12.00	23,600	3.38	15,000	2.26	7.50	78
	FG3AAA024	22,200	None	—	—	11.60	23,600	3.24	14,800	2.20	7.40	78
	FK4CNF001	23,200	TDR & TXV	13.00	—	—	23,600	3.46	14,200	2.34	7.80	78
	FK4CNF002	23,600	TDR & TXV	13.20	—	—	23,600	3.56	14,300	2.40	8.00	78
	FK4CNF003	23,800	TDR & TXV	14.00	—	—	23,600	3.60	14,200	2.42	8.00	78
	CC5A/CD5A/CD5BA024	22,400	None	—	—	11.70	23,600	3.20	14,800	2.18	7.30	78
	CC5A/CD5A/CD5BA030	22,600	None	—	—	12.00	23,600	3.22	14,800	2.20	7.30	78
	CC5A/CD5A/CD5BW030	22,600	None	—	—	12.00	23,600	3.22	14,800	2.20	7.30	78
	CD3(A,B)A024	22,400	None	—	—	11.70	23,600	3.20	14,800	2.18	7.30	78
CD3(A,B)A030	22,600	None	—	—	12.00	23,600	3.22	14,800	2.20	7.30	78	
CD3CA036	22,600	None	—	12.00	12.00	23,800	3.30	14,900	2.24	7.50	78	
CE3AA024	22,600	None	—	—	11.80	23,600	3.26	14,800	2.20	7.30	78	
CE3AA030	23,000	None	—	—	12.00	23,600	3.34	14,900	2.24	7.50	78	
CF5AA024	22,600	None	—	—	11.80	23,600	3.24	14,800	2.20	7.30	78	
CG5AA024	22,600	TXV	11.50	—	11.80	23,600	3.24	14,800	2.20	7.30	78	
030-A	F(A,B)4ANF036†	28,400	TDR	—	12.10	—	29,600	3.30	18,700	2.38	7.60	78
	F(A,B)4AN(A,F)030	28,000	TDR	—	12.20	—	29,200	3.26	18,200	2.38	7.50	78
	FC4BNF030	28,000	TDR & TXV	12.20	—	—	29,200	3.26	18,200	2.38	7.50	78
	FC4BNF036	28,400	TDR & TXV	12.10	—	—	29,600	3.30	18,700	2.38	7.60	78
	FD3ANA030	28,200	None	—	—	12.20	29,600	3.30	18,400	2.40	7.50	78
	FF1(A,B)NA030	28,200	None	—	—	12.20	29,400	3.32	18,300	2.40	7.50	78
	FG3AAA036	28,400	None	—	—	12.20	29,400	3.32	18,300	2.42	7.50	78
	FK4CNF001	28,600	TDR & TXV	13.50	—	—	29,000	3.42	17,800	2.52	7.90	78
	FK4CNF002	28,600	TDR & TXV	13.50	—	—	29,000	3.48	17,900	2.54	8.00	78
	FK4CNF003	29,200	TDR & TXV	14.00	—	—	28,800	3.54	17,700	2.58	8.10	78
	CC5A/CD5A/CD5BA030	27,800	None	—	—	12.10	29,000	3.14	18,200	2.34	7.30	78
	CC5A/CD5A/CD5BW030	27,800	None	—	—	12.10	29,000	3.14	18,200	2.34	7.30	78
	CD3(A,B)A030	27,800	None	—	—	12.10	29,000	3.14	18,200	2.34	7.30	78
	CC5A/CD5A/CD5BA036	28,800	None	—	—	12.50	29,400	3.34	18,300	2.42	7.50	78
	CD5A/CD5BW036	28,800	None	—	—	12.50	29,400	3.34	18,300	2.42	7.50	78
	CD3(A,B)A036	28,800	None	—	—	12.50	29,400	3.34	18,300	2.42	7.50	78
	CE3AA030	28,000	None	—	—	12.10	29,400	3.26	18,300	2.38	7.50	78
CE3AA036	28,400	None	—	—	12.30	29,400	3.28	18,300	2.40	7.50	78	
CF5AA036	28,400	None	—	—	12.50	29,400	3.30	18,300	2.40	7.50	78	
CG5AA036	28,400	TXV	12.20	—	12.50	29,400	3.30	18,300	2.40	7.50	78	
036-A	F(A,B)4AN(F,B)042†	33,800	TDR	—	12.10	—	35,800	3.40	22,800	2.42	8.00	78
	F(A,B)4ANF036	33,000	TDR	—	11.70	—	36,000	3.32	22,800	2.36	7.60	78
	FC4BNF036	33,000	TDR & TXV	11.70	—	—	36,000	3.32	22,800	2.36	7.60	78
	FC4BN(F,B)042	33,800	TDR & TXV	12.10	—	—	35,800	3.40	22,800	2.42	8.00	78
	FG3AAA036	33,000	None	—	—	12.00	35,800	3.38	22,600	2.42	7.70	78
	FK4CNF001	33,200	TDR & TXV	12.20	—	—	35,000	3.38	22,200	2.46	7.80	78
	FK4CNF002	33,400	TDR & TXV	12.30	—	—	35,000	3.52	22,200	3.44	8.00	78
	FK4CNF003	33,600	TDR & TXV	13.00	—	—	35,000	3.46	22,200	2.48	8.00	78
	FK4CNF005	35,000	TDR & TXV	14.00	—	—	35,000	3.80	22,000	2.68	8.00	78
	CC5A/CD5A/CD5BA036	33,600	None	—	—	12.10	35,800	3.38	22,600	2.42	7.70	78
	CD5A/CD5BW036	33,600	None	—	—	12.10	35,800	3.38	22,600	2.42	7.70	78
	CD3(A,B)A036	33,600	None	—	—	12.10	35,800	3.38	22,600	2.42	7.70	78
	CC5A/CD5A/CD5BA042	33,600	None	—	—	12.10	35,800	3.38	22,600	2.42	7.70	78
	CD3(A,B)A042	33,600	None	—	—	12.10	35,800	3.38	22,600	2.42	7.70	78
	CC5A/CD5A/CD5BW042	33,400	None	—	—	12.10	35,800	3.34	22,600	2.40	7.60	78
	CE3AA036	33,200	None	—	—	12.00	35,600	3.32	22,600	2.38	7.60	78
	CE3AA042	33,800	None	—	—	12.10	36,000	3.44	22,800	2.44	7.70	78
CF5AA036	33,400	None	—	—	12.10	35,800	3.36	22,600	2.40	7.70	78	
CG5AA036	33,400	TXV	12.00	—	12.10	35,800	3.36	22,600	2.40	7.70	78	

See notes on page 7.

HC1C COMBINATION RATINGS Continued

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS*										
		Cooling					Heating					
		TC	Seasonal Efficiency SEER			High-Temp TC	COP	Low-Temp		Seasonal Efficiency HSPF	Sound Rating (dBA)	
			Factory- Supplied Enhance- ment	Standard Rating	Field-Supplied Accessory			TC	COP			
			TXV**	TXV & TDR								
042-A	F(A,B)4AN(F,B)048†	40,000	TDR	—	12.00	—	43,000	3.46	27,800	2.54	8.00	78
	F(A,B)4AN(F,B)042	39,500	TDR	—	11.70	—	42,500	3.32	27,600	2.48	7.60	78
	FC4BNF038	40,500	TDR & TXV	12.00	—	—	43,000	3.54	28,000	2.56	8.00	78
	FC4BN(F,B)042	39,500	TDR & TXV	11.70	—	—	42,500	3.32	27,600	2.48	7.60	78
	FC4BN(F,B)048	40,000	TDR & TXV	12.00	—	—	43,000	3.46	27,800	2.54	8.00	78
	FG3AAA048	39,500	None	—	—	11.70	42,500	3.46	27,400	2.56	7.70	78
	FK4CNF003	39,500	TDR & TXV	13.00	—	—	41,500	3.40	26,400	2.60	7.80	78
	FK4CNB005	41,500	TDR & TXV	13.50	—	—	42,000	3.70	26,600	2.74	8.00	78
	FK4CNB006	42,000	TDR & TXV	14.00	—	—	42,000	3.86	26,600	2.82	8.30	78
	CD3(A,B)A042	39,500	None	—	—	12.00	42,000	3.32	27,200	2.50	7.50	78
	CC5A/CD5A/CD5BW042	39,000	None	—	—	11.80	43,500	3.28	27,200	2.48	7.50	78
	CC5A/CD5A/CD5BW043	39,000	None	—	—	11.80	42,000	3.32	27,400	2.50	7.60	78
	CD5A/CD5BA048	40,000	None	—	—	12.00	42,500	3.38	27,400	2.52	7.60	78
	CD3(A,B)A048	40,000	None	—	—	11.90	42,500	3.38	27,400	2.52	7.60	78
	CC5A/CD5A/CD5BC048	39,000	None	—	—	11.80	42,000	3.24	27,200	2.46	7.50	78
	CC5A/CD5A/CD5BW048	40,000	None	—	—	12.00	42,500	3.38	27,400	2.52	7.60	78
	CE3AA042	39,500	None	—	—	12.00	42,500	3.38	27,400	2.52	7.60	78
	CE3AA048	40,000	None	—	—	12.00	42,500	3.42	27,400	2.54	7.70	78
	CF5AA048	40,000	None	—	—	12.00	42,000	3.36	27,400	2.52	7.60	78
	CG5AA048	40,000	TXV	11.70	—	12.00	42,000	3.36	27,400	2.52	7.60	78
048-B	CC5A/CD5A/CD5BA060	46,000	NONE	—	—	11.50	48,000	3.14	32,000	2.34	7.40	78
	CC5A/CD5A/CD5BC048	44,500	NONE	—	—	11.50	48,000	3.00	31,800	2.26	7.00	78
	CC5A/CD5A/CD5BW048	45,500	NONE	—	—	11.50	48,000	3.18	32,200	2.34	7.50	78
	CC5A/CD5A/CD5BW060	47,000	NONE	—	—	12.00	48,000	3.32	32,200	2.40	7.80	78
	CD3(A,B)A048	45,500	NONE	—	—	11.50	48,000	3.20	32,200	2.34	7.50	78
	CD3(A,B)A060	46,000	NONE	—	—	11.50	48,000	3.14	32,000	2.34	7.40	78
	CD5A/CD5BA048	45,500	NONE	—	—	11.50	48,000	3.20	32,200	2.34	7.50	78
	CE3AA048	46,000	NONE	—	—	11.50	48,000	3.26	32,200	2.38	7.60	78
	CE3AA060	47,500	NONE	—	—	12.00	48,000	3.36	32,200	2.42	7.80	78
	CF5AA048	45,000	NONE	—	—	11.50	48,000	3.12	32,000	2.32	7.30	78
	CG5AA048	45,000	TXV	11.50	—	—	48,000	3.12	32,000	2.32	7.30	78
	F(A,B)4AN(F,B,C)048	46,000	TDR	—	11.50	—	48,000	3.32	32,400	2.38	7.60	78
	F(A,B)4AN(F,B,C)060	47,500	TDR	—	11.70	—	48,000	3.38	32,800	2.42	7.80	78
	FB4ANB070	48,000	TDR	—	12.00	—	48,000	3.54	32,600	2.48	8.00	78
	FC4BN(F,B)048	46,000	TDR&TXV	11.50	—	—	48,000	3.32	32,400	2.38	7.60	78
	FC4BN(F,B)060	47,500	TDR&TXV	11.70	—	—	48,000	3.38	32,800	2.42	7.80	78
	FC4BNB054	48,000	TDR&TXV	12.10	—	—	48,000	3.54	32,600	2.50	8.00	78
	FC4BNB070	48,000	TDR&TXV	12.00	—	—	48,000	3.54	32,600	2.48	8.00	78
	FG3AAA048	45,000	NONE	—	—	11.40	48,000	3.24	32,200	2.38	7.50	78
	FG3AAA060	46,000	NONE	—	—	11.80	48,000	3.30	32,200	2.40	7.60	78
FK4CNB006	48,000	TDR&TXV	13.50	—	—	48,000	3.64	31,400	2.60	8.20	78	
FK4CNF005	48,000	TDR&TXV	13.00	—	—	48,000	3.48	31,400	2.52	8.00	78	
060-B	CC5A/CD5A/CD5BA060	55,000	NONE	—	—	11.00	60,000	2.94	39,000	2.24	7.00	80
	CC5A/CD5A/CD5BW060	57,000	NONE	—	—	11.40	60,000	3.08	38,500	2.30	7.40	80
	CD3(A,B)A060	55,000	NONE	—	—	11.00	60,000	2.94	39,000	2.24	7.00	80
	CE3AA060	57,000	NONE	—	—	11.50	60,000	3.12	39,000	2.32	7.40	80
	F(A,B)4AN(F,B,C)060	56,500	TDR	—	11.20	—	60,000	3.16	40,000	2.32	7.50	80
	FB4ANB070	58,000	TDR	—	11.50	—	60,000	3.30	39,500	2.38	7.70	80
	FC4BN(F,B)060	56,500	TDR&TXV	11.20	—	—	60,000	3.16	40,000	2.32	7.50	80
	FC4BNB070	58,000	TDR&TXV	11.50	—	—	60,000	3.30	39,500	2.38	7.70	80
	FG3AAA060	55,500	NONE	—	—	11.30	60,000	3.04	39,000	2.30	7.30	80
	FK4CNB006	59,000	TDR&TXV	12.00	—	—	60,000	3.40	39,000	2.46	8.00	80

* Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:

Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

High-Temperature Heating Standard: 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.

Low-Temperature Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (-8°C) db 15°F (-10°C) wb air entering outdoor unit.

† Outdoor section/indoor section combination tested in accordance with DOE test procedures for heat pumps. Ratings for other combinations are determined under DOE computer simulation procedures.

** Requires hard shutoff TXV; based on computer simulation.

COP — Coefficient of Performance

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

TC — Total Capacity (Btuh)

TDR — Time-Delay Relay

TXV — Thermostatic Expansion Valve

SYSTEM DESIGN

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
4. Minimum outdoor operating air temperature for heating mode is -30°F (-34.4°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft, indoor coil below = 150 ft. (See items 8 and 9 following.)
8. For interconnecting refrigerant tube lengths greater than 50 ft, consult distributor.
9. Not more than 36 in. of refrigerant tube should be buried in the ground. If necessary to bury tubes under a sidewalk, provide a minimum 6-in. vertical rise to the valve connections at the unit.
10. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
11. Mixmatches of indoor coil capacity more than 1 size larger than outdoor unit capacity may result in inadequate indoor comfort.

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

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- Installation Overview
- Operating Sequence

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

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