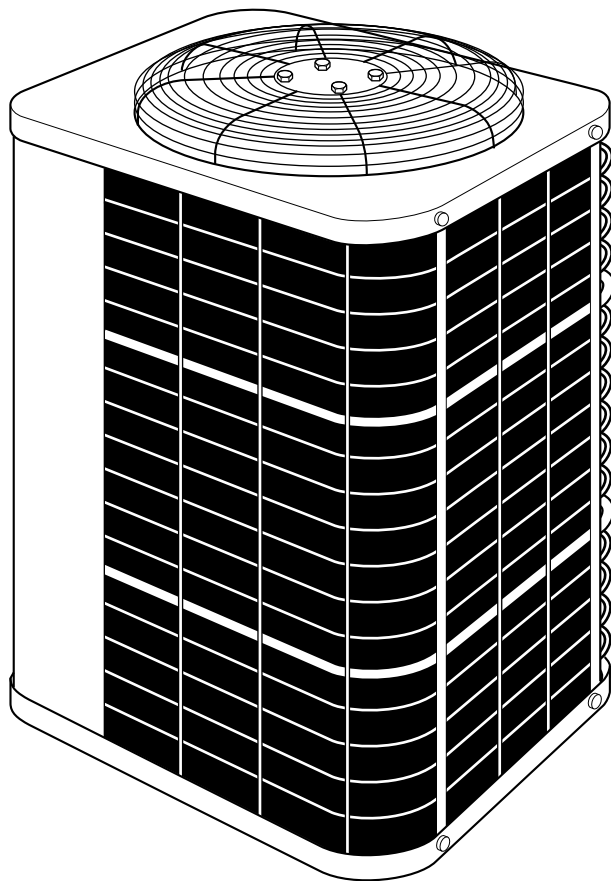




ELECTRIC AIR CONDITIONER

Model 594D (60 Hz)

Sizes 018 thru 060



Model 594D Energy-Efficient Air Conditioners incorporate innovative technology to provide quiet, reliable summer cooling performance. Built into these units are the features most desired by homeowners today, including SEER ratings of 11.0 minimum when used with components as designated by manufacturer. All models are listed with UL, c-UL, ARI, CEC, and CSA-EEV.

FEATURES

ELECTRICAL RANGE—All units are offered in 208/230-volts single phase.

WIDE RANGE OF SIZES—Available in 7 nominal sizes from 018 through 060 to meet the needs for residential and light commercial applications.

WEATHER-PROTECTIVE CABINET—Steel is protected with a heavy coating commonly called "galvanizing," then coated with a layer of zinc phosphate to which a coat of modified polyester powder coating is applied and baked-on. This provides each unit with a hard, smooth finish that will last for many years.

All screws on cabinet exterior are ceramic coated for a long-lasting, rust-resistant, quality appearance.

TOTALLY ENCLOSED FAN MOTOR—Means greater reliability under rain conditions and dependable performance for many years. Permanent-split-capacitor-type motors provide more economical operation.

UNIT DESIGN—Copper tube, enhanced aluminum fin coil is designed for optimum heat transfer. Vertical air discharge carries sound and hot condenser air up and away from adjacent patio areas and foliage. Heat pump style base pan for easy removal of water, dirt, and leaves.

APPLICATION VERSATILITY—The 594D can be combined with a wide variety of evaporator coils and blower packages to provide quiet, dependable comfort. Unit can be installed on a roof or at ground level on a slab.

EXTERNAL SERVICE VALVES—Both service valves are brass, back seating type with sweat connections. Valves are externally located so refrigerant tube connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.

EASY SERVICEABILITY—One access panel provides access to electrical controls and compressor. Removal of wire dome grille gives access to fan motor, while removal of top gives access to coil.

COMPRESSOR PROTECTION—Each model is protected with internal temperature- and current-sensitive overloads. An internal pressure relief valve provides high-pressure protection to the refrigerant system.

SCROLL COMPRESSOR—All units feature the scroll compressor. This compressor is significantly more efficient than conventional compressors. Due to the simplicity of its design, it offers improved reliability. Each compressor is mounted on rubber isolators for additional sound reduction. The scroll compressor does not require a crankcase heater and will start under most system loads, thus eliminating the need for start assistance components. Continuous operation is approved down to 55°F (12.8°C) in the cooling mode. (See cooling performance tables.)

WARRANTY—Standard 1 year on all parts, with an additional 9 years on the compressor.

CHECK-FLO-RATER®

CONDENSING UNIT SIZE	PISTON* IDENTIFICATION NO.
018-A	55
024-A	59
030-A	63
036-A	73
042-A	78
048-A	84
060-A	98

* Piston listed is for any approved non-capillary tube coil combination.
Piston is shipped with outdoor unit and must be installed in an approved indoor coil.



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

SPECIFICATIONS

MODEL	594D018-A	594D024-A	594D030-A	594D036-A
OPERATING WT				
ELECTRICAL				
Unit Volts—Hertz—Phase	208/230—60—1	208/230—60—1	208/230—60—1	208/230—60—1
Operating Voltage Range*	187—253	187—253	187—253	187—253
Compressor— Rated Load Amps	10.7	11.6	13.5	16.7
Locked Rotor Amps	50.0	62.5	76.0	95.0
Condenser Fan Motor—Full Load Amps	0.5	0.5	0.8	1.0
Min Unit Ampacity for Wire Sizing	13.9	15.0	17.7	21.8
Min Wire Size (60°/75°C Copper) AWG††	14/14	14/14	14/14	12/12
Max Wire Length (60°/75°C) (Ft)‡	56/54	53/50	56/53	66/63
Max Branch Circuit Fuse Size†	20	20	25	30
COMPRESSOR & REFRIGERANT				
Compressor—Type & Manufacturer	Scroll & Copeland			Scroll & Millennium
Temperature & Current Protection	Internal Line Break			
Refrigerant—R22 Amount	4.25 lbs	4.48 lbs	5.47 lbs	5.53 lbs
Refrigerant Tubes (In. OD) Vapor & Liquid (Up to 50 ft.)	5/8 & 3/8	5/8 & 3/8	3/4 & 3/8	3/4 & 3/8
CONDENSER COIL & FAN				
Coil-Height x Width (Sq Ft)	8.7	8.7	10.8	12.0
Fan Motor—HP, Type, & RPM	1/12 PSC & 1100		1/10 PSC & 1100	1/5 PSC & 825
Volts—Hertz—Phase	208/230—60—1			
Condenser Airflow (Cfm)	1700		2000	3000
OPTIONAL EQUIPMENT				
Cycle Protector	Standard			
Coastal Filter	KAACF0601SML			KAACF0201MED
Support Feet Kit	KSASF0101AAA			
Time-Delay Relay	KAATD0101TDR			
Start Assist-PTC	KAACS0201PTC			
Start Assist-Capacitor & Relay	KSAHS0401AAA			
Sound Blanket	Standard			
Crankcase Heater	KAACH1201AAA			
TXV Kit (RPB)	KAATX0201RPB	KAATX0301RPB	KAATX0401RPB	KAATX0501RPB
TXV Kits (Hard Shutoff)	KAATX0901HSO	KAATX1001HSO	KAATX1101HSO	KAATX1201HSO
Low-Pressure Switch	KAALP0101LPS			
High-Pressure Switch	KSAHI0101HPS			
Filter Drier	P502-8083S			
Liquid Solenoid Valve	KAALS0101LLS			
Low Ambient Controller‡‡ (RCD)	P251-0083			
Winter Start Control	KAAWS0101AAA			
Evap Freeze Thermostat‡‡	KAAFT0101AAA			
Motor Master (RCD)	32LT660004			
Ball Bearing Motor (RCD)	HC34GE231			HC38GE230
Thermostat, Auto Changeover, Non-Programmable, °F°C, 1-Stage Heat, 1-Stage Cool	TSTATXXNAC01**			
Thermostat, Auto Changeover, 7-Day Programmable, °F°C, 1-Stage Heat, 1-Stage Cool	TSTATXXPAC01-A**			
Thermostat, Manual Changeover, Non-Programmable, °F, 1-Stage Heat, 1-Stage Cool	HH07AT212			
Outdoor Sensor	TSTATBBSSEN01			

See notes on page 4.

SPECIFICATIONS Continued

MODEL	594D042-A	594D048-A	594D060-A
OPERATING WT			
ELECTRICAL			
Unit Volts—Hertz—Phase	208/230—60—1	208/230—60—1	208/230—60—1
Operating Voltage Range*	187—253	187—253	187—253
Compressor— Rated Load Amps	19.9	23.7	28.8
Locked Rotor Amps	115.0	129.0	165.0
Condenser Fan Motor—Full Load Amps	1.0	1.4	1.4
Min Unit Ampacity for Wire Sizing	25.8	31.0	37.4
Min Wire Size (60°/75°C Copper) AWG††	10/10	8/10	8/8
Max Wire Length (60°/75°C) (Ft)‡	96/91	126/77	104/99
Max Branch Circuit Fuse Size†	40	50	60
COMPRESSOR & REFRIGERANT			
Compressor—Type	Scroll & Millennium	Scroll & Copeland	Scroll & Millennium
Temperature & Current Protection	Internal Line Break		
Refrigerant—R22 Amount	6.68 lbs	6.34 lbs	11.15 lbs
Refrigerant Tubes (In. OD) Vapor & Liquid (Up to 50 ft.)	7/8 & 3/8	7/8 & 3/8	1-1/8 & 3/8
CONDENSER COIL & FAN			
Coil-Height x Width (Sq Ft)	15.2	15.2	18.3
Fan Motor—HP, Type, & RPM	1/5 PSC & 825	1/4 PSC & 1100	
Volts—Hertz—Phase	208/230—60—1		
Condenser Airflow (Cfm)	3000	3300	
OPTIONAL EQUIPMENT			
Cycle Protector	Standard		
Coastal Filter	KAACF0201MED		
Support Feet Kit	KSASF0101AAA		
Time-Delay Relay	KAATD0101TDR		
Start Assist-PTC	KAACS0201PTC		
Start Assist-Capacitor & Relay	KSAHS0401AAA		
Sound Blanket	Standard		
Crankcase Heater	KAACH1201AAA		
TXV Kit (RPB)	KAATX0501RPB	KAATX0601RPB	KAATX0701RPB
TXV Kits (Hard Shutoff)	KAATX1201HSO	KAATX1301HSO	KAATX1401HSO
Low-Pressure Switch	KAALP0101LPS		
High-Pressure Switch	KSAHI0101HPS		
Filter Drier	P502-8163S		
Liquid Solenoid Valve	KAALS0101LLS		
Low-Ambient Controller‡‡ (RCD)	P251-0083		
Winter Start Control	KAAWS0101AAA		
Evap Freeze Thermostat‡‡	KAAFT0101AAA		
Motor Master (RCD)	32LT660004		
Ball Bearing Motor (RCD)	HC38GE230	HC40GE230	
Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATXXNAC01**		
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATXXPAC01-A**		
Thermostat, Manual Changeover, Non-Programmable, °F, 1-Stage Heat, 1-Stage Cool	HH07AT212		
Outdoor Sensor	TSTATBBSEN01		

* Permissible limits of the voltage range at which the unit will operate satisfactorily. Operation outside these limits may result in unit failure.
Copper wire must be used from service disconnect to unit.

† Time-delay fuse.

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

All motors/compressors contain internal overload protection.

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

†† 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 336-36.

‡‡ Consult low ambient controller installation instruction for application.

RATINGS & PERFORMANCE

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)
					TDR	TXV	
018-A	CC5A/CD5A/CD5BA024*	17,800	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BA018	17,400	NONE	10.20	10.50	10.50	7.2
	CD3(A,B)A018	17,400	NONE	10.20	10.50	10.50	7.2
	CC5A/CD5A/CD5BW024	17,800	NONE	10.50	11.00	11.00	7.2
	CD3(A,B)A024	17,800	NONE	10.50	11.00	11.00	7.2
	CD3CA024	17,800	NONE	10.50	11.00	11.00	7.2
	CE3AA024	17,800	NONE	10.50	11.00	11.00	7.2
	CF5AA024	17,800	NONE	10.50	11.00	11.00	7.2
	CG5AA024	17,800	NONE	10.50	11.00	11.00	7.2
	F(A,B)4ANF018	17,200	TDR	10.50	—	10.50	7.2
	F(A,B)4ANF024	17,800	TDR	11.00	—	11.00	7.2
	FC4BNF024	17,800	TDR & TXV	11.00	—	—	7.2
	FC4BNF033	18,000	TDR & TXV	11.00	—	—	7.2
	FD3ANA018	17,500	NONE	10.00	10.20	10.20	7.2
	FD3ANA024	17,800	NONE	10.50	11.00	11.00	7.2
	FF1(A,B)NA018	17,400	TDR	11.00	—	11.00	7.2
	FF1(A,B)NA024	17,800	TDR	11.00	—	11.00	7.2
	FG3AAA024	17,600	NONE	10.40	10.70	10.70	7.2
	FK4BNF001	18,500	TDR & TXV	12.50	—	—	7.2
	FK4BNF002	18,500	TDR & TXV	12.70	—	—	7.2
	FK4BNF004	18,500	TDR & TXV	13.00	—	—	7.2
	COILS + 355MAV042040 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
	COILS + 355MAV042060 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
	COILS + 355MAV042080 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
024-A	CC5A/CD5A/CD5BA030*	23,600	NONE	10.70	11.00	11.00	7.2
	CC5A/CD5A/CD5BA024	23,400	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BW024	23,400	NONE	10.50	11.00	11.00	7.2
	CD3(A,B)A024	23,400	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BW030	23,400	NONE	10.70	11.00	11.00	7.2
	CD3(A,B)A030	23,400	NONE	10.70	11.00	11.00	7.2
	CD3CA024	23,400	NONE	10.70	11.00	11.00	7.2
	CD3CA030	23,400	NONE	10.70	11.00	11.00	7.2
	CE3AA024	23,400	NONE	10.70	11.00	11.00	7.2
	CE3AA030	23,600	NONE	11.00	11.10	11.10	7.2
	CF5AA024	23,400	NONE	10.70	11.00	11.00	7.2
	CG5AA024	23,400	NONE	10.70	11.00	11.00	7.2
	F(A,B)4ANF024	23,400	TDR	11.00	—	11.00	7.2
	F(A,B)4ANF030	23,800	TDR	11.50	—	11.50	7.2
	FC4BNF024	23,600	TDR & TXV	11.10	—	—	7.2
	FC4BNF033	24,200	TDR & TXV	11.50	—	—	7.2
	FC4BNF030	23,800	TDR & TXV	11.50	—	—	7.2
	FD3ANA024	23,200	NONE	11.00	11.20	11.20	7.2
	FD3ANA030	23,800	NONE	11.00	11.30	11.30	7.2
	FF1(A,B)NA024	23,400	TDR	11.00	—	11.00	7.2
	FF1(A,B)NA030	24,000	TDR	11.30	—	11.30	7.2
	FG3AAA024	23,200	NONE	10.70	11.00	11.00	7.2
	FK4BNF001	24,800	TDR & TXV	12.50	—	—	7.2
	FK4BNF002	25,000	TDR & TXV	12.60	—	—	7.2
	FK4BNF004	25,000	TDR & TXV	13.00	—	—	7.2
	FK4BNF003	25,000	TDR & TXV	13.00	—	—	7.2
	COILS + 355MAV042040 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
	COILS + 355MAV042060 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
	COILS + 355MAV042080 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
030-A	CC5A,CD5A,CD5BA036*	29,000	NONE	10.70	11.00	11.00	7.4
	CC5A/CD5A/CD5BA030	28,000	NONE	10.20	10.50	10.50	7.4
	CC5A/CD5A/CD5BW030	28,000	NONE	10.20	10.50	10.50	7.4
	CD3(A,B)A030	28,000	NONE	10.20	10.50	10.50	7.4
	CD5A/CD5BW036	29,000	NONE	10.50	11.00	11.00	7.4
	CD3(A,B)A036	29,000	NONE	10.70	11.00	11.00	7.4
	CD3CA030	28,000	NONE	10.20	10.50	10.50	7.4
	CD3CA036	28,400	NONE	10.40	10.70	10.70	7.4
	CE3AA030	28,000	NONE	10.50	10.70	10.70	7.4
	CE3AA036	28,400	NONE	10.50	11.00	11.00	7.4
	CF5AA036	28,800	NONE	10.50	11.00	11.00	7.4
	CG5AA036	28,800	NONE	10.50	11.00	11.00	7.4
	F(A,B)4ANF030	27,800	TDR	11.00	—	11.00	7.4
	F(A,B)4ANF036	28,600	TDR	10.70	—	10.70	7.4
	FC4BNF030	28,000	TDR & TXV	10.80	—	—	7.4
	FC4BNF036	28,800	TDR & TXV	10.70	—	—	7.4
	FC4BNF033	29,000	TDR & TXV	11.00	—	—	7.4
	FD3ANA030	28,200	NONE	10.20	10.50	10.50	7.4

See notes on page 7.

RATINGS & PERFORMANCE Continued

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)
					TDR	TXV	
030-A	FF1(A,B)NA030	28,200	TDR	10.80	—	10.80	7.4
	FG3AAA036	28,800	NONE	10.50	11.00	11.00	7.4
	FK4BNF003	29,200	TDR & TXV	12.00	—	—	7.4
	FK4BNF001	28,200	TDR & TXV	11.50	—	—	7.4
	FK4BNF002	28,600	TDR & TXV	11.50	—	—	7.4
	FK4BNF004	29,200	TDR & TXV	12.00	—	—	7.4
	COILS + 355MAV042040 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA036	29,400	NONE	12.00	—	12.00	7.4
	CD3(A,B)A036	29,400	NONE	12.00	—	12.00	7.4
	COILS + 355MAV042060 VARIABLE-SPEED FURNACE						
036-A	CC5A/CD5A/CD5BA042*	35,000	NONE	11.00	11.20	11.20	7.6
	CC5A/CD5A/CD5BA036	34,800	NONE	11.00	11.20	11.20	7.6
	CD5A/CD5BW036	34,800	NONE	11.00	11.20	11.20	7.6
	CD3(A,B)A036	34,800	NONE	11.00	11.20	11.20	7.6
	CD3(A,B)A042	34,800	NONE	11.00	11.20	11.20	7.6
	CC5A/CD5A/CD5BW042	34,600	NONE	10.70	11.00	11.00	7.6
	CD3CA036	34,400	NONE	10.70	11.00	11.00	7.6
	CD3CA042	34,400	NONE	10.70	11.00	11.00	7.6
	CE3AA036	34,200	NONE	10.70	11.00	11.00	7.6
	CE3AA042	35,000	NONE	11.00	11.20	11.20	7.6
042-A	CF5AA036	34,600	NONE	11.00	11.20	11.20	7.6
	CG5AA036	34,600	NONE	11.00	11.20	11.20	7.6
	F(A,B)4ANF036	34,200	TDR	10.80	—	10.80	7.6
	F(A,B)4AN(F,B)042	34,800	TDR	11.00	—	11.00	7.6
	FC4BNF036	34,200	TDR & TXV	10.80	—	—	7.6
	FC4BNF033	34,800	TDR & TXV	11.00	—	—	7.6
	FC4BN(F,B)042	34,800	TDR & TXV	11.00	—	—	7.6
	FC4BNF038	36,000	TDR & TXV	11.30	—	—	7.6
	FC4BNB054	36,600	TDR & TXV	11.80	—	—	7.6
	FG3AAA036	34,200	NONE	10.70	11.00	11.00	7.6
042-A	FK4BNF001	34,000	TDR & TXV	11.20	—	—	7.6
	FK4BNF002	34,400	TDR & TXV	11.20	—	—	7.6
	FK4BNF004	34,600	TDR & TXV	12.00	—	—	7.6
	FK4BNF003	34,800	TDR & TXV	12.00	—	—	7.6
	FK4BNF005	36,000	TDR & TXV	12.50	—	—	7.6
	FK4BNB006	36,000	TDR & TXV	13.00	—	—	7.6
	COILS + 355MAV042040 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 355MAV042060 VARIABLE-SPEED FURNACE						
042-A	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 355MAV042080 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 355MAV060100 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	CD5A/CD5BA048*	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BA042	41,000	NONE	10.70	11.00	11.00	7.6
042-A	CD3(A,B)A042	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BW042	40,500	NONE	10.70	11.00	11.00	7.6
	CD3(A,B)A048	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BC048	40,500	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BW048	41,000	NONE	10.70	11.00	11.00	7.6
	CD3CA042	39,500	NONE	10.50	10.70	10.70	7.6
	CD3CA048	40,500	NONE	10.70	11.00	11.00	7.6
	CE3AA042	41,000	NONE	10.70	11.00	11.00	7.6
	CE3AA048	41,500	NONE	10.70	11.00	11.00	7.6
	CF5AA048	41,000	NONE	10.70	11.00	11.00	7.6
042-A	CG5AA048	41,000	NONE	10.70	11.00	11.00	7.6
	F(A,B)4AN(F,B)042	40,500	TDR	11.00	—	11.00	7.6
	F(A,B)4AN(F,B)048	41,500	TDR	11.10	—	11.10	7.6
	FC4BN(F,B)042	40,500	TDR & TXV	11.00	—	—	7.6
	FC4BNB054	42,500	TDR & TXV	11.50	—	—	7.6
	FC4BN(F,B)048	41,000	TDR & TXV	11.00	—	—	7.6
	FG3AAA048	41,000	NONE	10.70	11.00	11.00	7.6
	FK4BNF003	41,000	TDR & TXV	12.00	—	—	7.6
	FK4BNB005	42,500	TDR & TXV	12.20	—	—	7.6
	FK4BNB006	42,500	TDR & TXV	12.50	—	—	7.6
042-A	COILS + 355MAV042080 VARIABLE-SPEED FURNACE						
	CD5A/CD5BA048	40,500	NONE	12.00	—	12.00	7.6
	CD3(A,B)A048	40,500	NONE	12.00	—	12.00	7.6

See notes on page 7.

RATINGS & PERFORMANCE Continued

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)	
					TDR	TXV		
042-A	COILS + 355MAV060100 VARIABLE-SPEED FURNACE							
	CD5A/CD5BA048	40,500	NONE	12.00	—	12.00	7.6	
	CD3(A,B)A048	40,500	NONE	12.00	—	12.00	7.6	
048-A	CC5A/CD5A/CD5BA060*	47,000	NONE	10.60	11.00	11.00	7.8	
	CD5A/CD5BA048	46,500	NONE	10.50	11.00	11.00	7.8	
	CD3(A,B)A048	46,500	NONE	10.50	11.00	11.00	7.8	
	CC5A/CD5A/CD5BC048	45,000	NONE	10.50	10.80	10.80	7.8	
	CC5A/CD5A/CD5BW048	46,000	NONE	10.50	11.00	11.00	7.8	
	CD3(A,B)A060	47,000	NONE	10.60	11.00	11.00	7.8	
	CC5A/CD5A/CD5BW060	48,000	NONE	10.80	11.20	11.20	7.8	
	CD3CA048	46,500	NONE	10.30	10.80	10.80	7.8	
	CD3CA060	47,000	NONE	10.50	11.00	11.00	7.8	
	CE3AA048	46,500	NONE	10.70	11.00	11.00	7.8	
	CE3AA060	48,000	NONE	11.00	11.20	11.20	7.8	
	CF5AA048	47,000	NONE	10.70	11.20	11.20	7.8	
	CG5AA048	47,000	NONE	10.70	11.20	11.20	7.8	
	F(A,B)4AN(F,B)048	46,500	TDR	11.00	—	11.00	7.8	
	F(A,B)4AN(F,B)060	48,000	TDR	11.00	—	11.00	7.8	
	FB4ANB070	48,000	TDR	11.50	—	11.50	7.8	
	FC4BN(F,B)048	47,000	TDR & TXV	11.00	—	—	7.8	
	FC4BNB070	48,000	TDR & TXV	11.50	—	—	7.8	
	FC4BN(F,B)060	48,000	TDR & TXV	11.00	—	—	7.8	
	FC4BNB054	48,000	TDR & TXV	11.50	—	—	7.8	
	FG3AAA048	46,000	NONE	10.50	10.80	10.80	7.8	
	FG3AAA060	48,000	NONE	10.70	11.00	11.00	7.8	
	FK4BNB006	48,500	TDR & TXV	12.50	—	—	7.8	
	COILS + 355MAV060100 VARIABLE-SPEED FURNACE							
		CC5A/CD5A/CD5BW060	47,000	NONE	11.90	—	11.90	7.8
	060-A	CC5A/CD5A/CD5BW060*	57,000	NONE	10.80	11.00	11.00	7.8
		CC5A/CD5A/CD5BA060	55,000	NONE	10.60	11.00	11.00	7.8
		CD3(A,B)A060	55,000	NONE	10.60	11.00	11.00	7.8
		CD3CA060	57,000	NONE	10.50	11.00	11.00	7.8
		CD3CA070	57,500	NONE	10.50	11.00	11.00	7.8
CE3AA060		58,000	NONE	10.80	11.20	11.20	7.8	
F(A,B)4AN(F,B)060		58,000	TDR	10.70	—	10.70	7.8	
FB4ANB070		59,000	TDR	11.00	—	11.00	7.8	
FC4BNB070		59,000	TDR & TXV	11.00	—	—	7.8	
FC4BN(F,B)060		57,500	TDR & TXV	10.70	—	—	7.8	
FC4BNB054		58,000	TDR & TXV	11.30	—	—	7.8	
FG3AAA060		57,000	NONE	10.70	11.00	11.00	7.8	
FK4BNB006		58,500	TDR & TXV	11.70	—	—	7.8	

*Tested Combination

† Refer to TDR Table prior to utilizing accessory TDR. If utilizing TXV, hard shut-off type is required based on computer simulation.

- NOTES:**
1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
 2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
 3. Determine actual cfm values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
 4. Minimum outdoor operating ambient in cooling mode is 55°F (12.8°C), maximum 125°F (51.7°C).

TDR.90 TABLE

METHOD	PART/MODEL NUMBER
Time-Delay Relay	KAATD0101TDR
Furnaces with TDR	320A, 321A, 330AAV, 331AAV, 340MAV, 349MAV, 349MAZ, 350MAV, 355MAV, 373LAV, 376C, 383KAV, 394HAD, 395C, 396HAD, 398A, 398B, 399A

NOTE: In most cases, only 1 of the above should be used to achieve TDR function. More than 1 of the methods listed above in a system may cause degradation in performance.

DETAILED COOLING CAPACITIES*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
594D018-A Outdoor Section With CC5A/CD5A/CD5BA024 Indoor Section																
525	72	20.1	9.79	1.68	19.2	9.48	1.84	18.5	9.19	2.02	17.6	8.89	2.21	16.8	8.57	2.43
	67	18.4	12.3	1.66	17.7	12.0	1.81	16.9	11.7	1.99	16.2	11.4	2.19	15.4	11.1	2.40
	62	16.8	14.8	1.63	16.1	14.5	1.79	15.4	14.1	1.97	14.7	13.8	2.16	14.0	13.4	2.38
	57	15.9	15.9	1.63	15.4	15.4	1.79	14.9	14.9	1.97	14.3	14.3	2.16	13.7	13.7	2.38
600	72	20.4	10.2	1.71	19.6	9.90	1.88	18.8	9.61	2.06	18.0	9.31	2.26	17.1	8.98	2.47
	67	18.7	13.0	1.69	18.0	12.7	1.86	17.3	12.4	2.04	16.5	12.1	2.23	15.6	11.8	2.45
	62	17.1	15.7	1.67	16.5	15.4	1.84	15.7	15.0	2.00	15.0	14.6	2.19	14.3	14.2	2.40
	57	16.5	16.5	1.66	16.0	16.0	1.82	15.4	15.4	2.00	14.8	14.8	2.20	14.2	14.2	2.41
675	72	20.6	10.6	1.74	19.8	10.3	1.90	19.0	9.97	2.08	18.1	9.67	2.28	17.2	9.35	2.50
	67	19.0	13.7	1.72	18.2	13.4	1.88	17.4	13.1	2.06	16.6	12.8	2.26	15.8	12.4	2.47
	62	17.4	16.6	1.70	16.7	16.2	1.86	16.0	15.8	2.04	15.2	15.2	2.22	14.6	14.6	2.43
	57	17.1	17.1	1.70	16.5	16.5	1.86	15.9	15.9	2.03	15.2	15.2	2.23	14.6	14.6	2.44
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5A/CD5BA		018	0.98	0.99	FF1(A,B)NA		018	0.98	0.96							
		024	1.00	1.00			024	1.00	1.00							
CD3(A,B)A		018	0.98	0.99	FG3AAA		024	0.99	1.00							
CC5A/CD5A/CD5BW		024	1.00	1.00	FK4BNF		001	1.04	0.93							
CD3(A,B)A		024	1.00	1.00			002	1.04	0.93							
CD3CA		024	1.00	1.00			004	1.04	0.91							
CE3AA		024	1.00	1.00	COILS + 355MAV042040 VARIABLE SPEED FURNACE											
CF5AA		024	1.00	1.00	CC5A/CD5A/CD5BA		024	1.01	0.94							
CG5AA		024	1.00	1.00	CD3(a,B)A		024	1.01	0.94							
F(A,B)4ANF		018	0.97	0.99	COILS + 355MAV042060 VARIABLE SPEED FURNACE											
		024	1.00	1.01	CC5A/CD5A/CD5BA		024	1.01	0.94							
FC4BNF		024	1.00	1.01	CD3(A,B)A		024	1.01	0.94							
		033	1.01	1.03	COILS + 355MAV042080 VARIABLE SPEED FURNACE											
FD3ANA		018	0.98	1.02	CC5A/CD5A/CD5BA		024	1.01	0.94							
		024	1.00	0.99	CD3(A,B)A		024	1.01	0.94							

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
594D024-A Outdoor Section With CC5A/CD5A/CD5BA030 Indoor Section																
700	72	26.3	13.0	2.16	25.4	12.6	2.40	24.4	12.3	2.66	23.5	12.0	2.96	22.6	11.6	3.30
	67	24.1	16.5	2.14	23.3	16.1	2.37	22.4	15.8	2.63	21.5	15.4	2.92	20.7	15.1	3.27
	62	22.0	19.9	2.12	21.2	19.5	2.34	20.4	19.0	2.58	19.6	18.6	2.87	18.8	18.2	3.21
	57	21.1	21.1	2.10	20.4	20.4	2.32	19.8	19.8	2.58	19.2	19.2	2.87	18.6	18.6	3.21
800	72	26.7	13.5	2.20	25.7	13.2	2.43	24.7	12.8	2.70	23.8	12.5	2.99	22.8	12.1	3.34
	67	24.5	17.4	2.18	23.6	17.1	2.41	22.7	16.7	2.67	21.8	16.3	2.96	20.9	16.0	3.30
	62	22.4	21.1	2.16	21.6	20.7	2.38	20.7	20.2	2.62	19.9	19.7	2.91	19.2	19.1	3.24
	57	21.9	21.9	2.15	21.2	21.2	2.38	20.6	20.6	2.64	19.9	19.9	2.94	19.2	19.2	3.28
900	72	26.9	14.0	2.24	26.0	13.7	2.47	25.0	13.3	2.74	24.0	13.0	3.03	23.0	12.6	3.37
	67	24.8	18.3	2.22	23.9	18.0	2.45	23.0	17.6	2.71	22.0	17.3	3.00	21.1	16.9	3.34
	62	22.8	22.2	2.20	22.0	21.7	2.42	21.2	21.1	2.68	20.3	20.3	2.95	19.6	19.6	3.29
	57	22.5	22.5	2.20	21.8	21.8	2.42	21.1	21.1	2.68	20.4	20.4	2.97	19.7	19.7	3.32
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5A/CD5BA		024	0.99	1.00	FD3ANA		024	0.98	0.98							
		030	1.00	1.00			030	1.01	1.00							
CC5A/CD5A/CD5BW		024	0.99	1.00	FF1(A,B)NA		024	0.99	1.01							
		030	0.99	1.00			030	1.02	1.01							
CD3(A,B)A		024	0.99	1.00	FG3AAA		024	0.98	1.00							
		030	0.99	1.00			FK4BNF		001	1.05	0.94					
CD3CA		024	0.99	1.00	002	1.06			0.94							
		030	0.99	1.00	003	1.06	0.91									
CE3AA		024	0.99	1.00	004	1.06	0.92									
		030	1.00	1.00	COILS + 355MAV042040 VARIABLE SPEED FURNACE											
CF5AA		024	0.99	1.00	CC5A/CD5A/CD5BA		030	1.01	0.94							
CG5AA		024	0.99	1.00	CD3(A,B)A		030	1.01	0.94							
F(A,B)4ANF		024	0.99	1.00	COILS + 355MAV042060 VARIABLE SPEED FURNACE											
		030	1.01	0.99	CC5A/CD5A/CD5BA		030	1.01	0.94							
FC4BNF		024	1.00	1.00	CD3(A,B)A		030	1.01	0.94							
		030	1.01	0.99	COILS + 355MAV042080 VARIABLE SPEED FURNACE											
		033	1.03	1.00	CC5A/CD5A/CD5BA		030	1.01	0.94							
		—	—	—	CD3(A,B)A		030	1.01	0.94							

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
594D030-A Outdoor Section With CC5A/CD5A/CD5BA036 Indoor Section																
875	72	32.4	16.1	2.68	31.2	15.6	2.95	29.9	15.2	3.26	28.7	14.7	3.60	27.4	14.2	3.99
	67	29.7	20.4	2.64	28.6	20.0	2.91	27.4	19.5	3.21	26.2	19.0	3.55	25.1	18.6	3.95
	62	27.2	24.6	2.61	26.1	24.1	2.87	25.1	23.6	3.17	24.1	23.1	3.52	23.1	22.5	3.92
	57	26.1	26.1	2.58	25.3	25.3	2.85	24.5	24.5	3.17	23.7	23.7	3.52	22.8	22.8	3.92
1000	72	32.9	16.8	2.73	31.6	16.3	3.00	30.3	15.8	3.31	29.0	15.4	3.65	27.6	14.9	4.04
	67	30.2	21.6	2.69	29.0	21.2	2.96	27.8	20.7	3.26	26.6	20.2	3.60	25.4	19.7	4.00
	62	27.7	26.2	2.66	26.6	25.7	2.93	25.5	25.0	3.22	24.5	24.4	3.57	23.5	23.5	3.96
	57	27.0	27.0	2.64	26.2	26.2	2.92	25.3	25.3	3.23	24.4	24.4	3.57	23.5	23.5	3.97
1125	72	33.2	17.4	2.78	31.9	17.0	3.05	30.6	16.5	3.36	29.2	16.0	3.70	27.8	15.6	4.09
	67	30.5	22.8	2.74	29.3	22.4	3.01	28.1	21.9	3.31	26.8	21.4	3.65	25.6	20.9	4.04
	62	28.1	27.6	2.71	27.1	26.9	2.97	26.0	26.0	3.27	25.1	25.1	3.62	24.2	24.2	4.05
	57	27.9	27.9	2.71	27.0	27.0	2.98	26.1	26.1	3.28	25.1	25.1	3.62	24.1	24.1	4.02
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5A/CD5BA		030	0.97	0.99	FF1(A,B)NA		030	0.97	1.00							
		036	1.00	1.00			036	0.99	1.00							
CC5A/CD5A/CD5BW		030	0.97	0.99	FK4BNF		001	0.97	0.96							
CD3(A,B)A		030	0.97	0.99			002	0.99	0.96							
		036	1.00	1.00			003	1.01	0.92							
CD5A/CD5BW		036	1.00	1.00			004	1.01	0.93							
CD3CA		030	0.97	1.00	COILS + 355MAV042040 VARIABLE SPEED FURNACE											
		036	0.98	1.01	CC5A/CD5A/CD5BA		036	1.00	0.95							
CE3AA		030	0.97	1.00	CD3(A,B)A		036	1.00	0.95							
		036	0.98	1.00	COILS + 355MAV042060 VARIABLE SPEED FURNACE											
CF5AA		036	0.99	1.00	CC5A/CD5A/CD5BA		036	1.00	0.95							
CG5AA		036	0.99	1.00	CD3(A,B)A		036	1.00	0.95							
F(A,B)4ANF		030	0.96	0.97	COILS + 355MAV042080 VARIABLE SPEED FURNACE											
		036	0.99	1.01	CC5A/CD5A/CD5BA		036	1.01	0.95							
FC4BNF		030	0.97	0.99	CD3(A,B)A		036	1.01	0.95							
		033	1.00	1.00	COILS + 355MAV060100 VARIABLE SPEED FURNACE											
		036	0.99	1.01	CC5A/CD5A/CD5BA		036	1.01	0.95							
FD3ANA		030	0.97	1.01	CD3(A,B)A		036	1.01	0.95							

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
594D036-A Outdoor Section With CC5A/CD5A/CD5BA042 Indoor Section																
1050	72	39.1	19.4	3.18	37.6	18.8	3.50	35.9	18.2	3.82	34.0	17.5	4.14	32.2	16.9	4.47
	67	35.9	24.6	3.13	34.4	24.0	3.43	32.9	23.4	3.75	31.2	22.7	4.04	29.4	22.0	4.35
	62	32.9	29.7	3.08	31.5	29.0	3.37	30.0	28.2	3.64	28.4	27.4	3.94	26.9	26.5	4.23
	57	31.5	31.5	3.04	30.4	30.4	3.33	29.2	29.2	3.63	28.0	28.0	3.93	26.7	26.7	4.23
1200	72	39.7	20.2	3.25	38.1	19.6	3.56	36.4	19.0	3.89	34.4	18.3	4.21	32.5	17.7	4.54
	67	36.5	26.1	3.19	35.0	25.5	3.50	33.4	24.9	3.81	31.5	24.1	4.11	29.8	23.5	4.42
	62	33.5	31.6	3.14	32.1	30.9	3.44	30.5	30.0	3.72	29.0	29.0	4.02	27.6	27.6	4.32
	57	32.7	32.7	3.13	31.6	31.6	3.43	30.3	30.3	3.71	29.0	29.0	4.02	27.6	27.6	4.33
1350	72	40.1	21.0	3.30	38.5	20.4	3.63	36.7	19.8	3.96	34.7	19.1	4.28	32.8	18.5	4.61
	67	36.9	27.6	3.25	35.4	26.9	3.56	33.7	26.3	3.88	31.8	25.5	4.18	30.0	24.8	4.49
	62	34.0	33.3	3.20	32.6	32.4	3.50	31.2	31.2	3.81	29.8	29.8	4.10	28.3	28.3	4.42
	57	33.7	33.7	3.20	32.5	32.5	3.50	31.1	31.1	3.79	29.8	29.8	4.11	28.3	28.3	4.42
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section	Size	Cooling									
			Capacity	Power			Capacity	Power								
CC5A/CD5A/CD5BA		036	0.99	1.00	FG3AAA FK4BNF	036	0.98	1.00								
		042	1.00	1.00		001	0.97	0.98								
CD5A/CD5BW		036	0.99	1.00		002	0.98	0.98								
CD3(A,B)A		036	0.99	1.00			003	0.99	0.95							
		042	0.99	1.00	004		0.99	0.95								
CC5A/CD5A/CD5BW		042	0.99	1.00	FK4BNB	005	1.03	0.94								
CD3AA		036	0.98	1.00		006	1.03	0.93								
		042	0.98	1.00	COILS + 355MAV042040 VARIABLE SPEED FURNACE											
CE3AA		036	0.98	1.00	CC5A/CD5A/CD5BA	042	0.99	0.94								
		042	1.00	1.00	CD3(A,B)A	042	0.99	0.94								
CF5AA		036	0.99	1.00	COILS + 355MAV042060 VARIABLE SPEED FURNACE											
CG5AA		036	0.99	1.00	CC5A/CD5A/CD5BA	042	0.99	0.94								
F(A,B)4ANF		036	0.98	1.02	CD3(A,B)A	042	0.99	0.94								
F(A,B)4AN(F,B)		042	0.99	1.01	COILS + 355MAV042080 VARIABLE SPEED FURNACE											
FC4BNF		033	0.99	1.01	CC5A/CD5A/CD5BA	042	0.99	0.94								
		036	0.98	1.02	CD3(A,B)A	042	0.99	0.94								
		038	1.03	1.03	COILS + 355MAV060100 VARIABLE SPEED FURNACE											
FC4BN(F,B)		042	0.99	1.01	CC5A/CD5A/CD5BA	042	0.99	0.94								
FC4BNB		054	1.05	1.01	CD3(A,B)A	042	0.99	0.94								

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
594D042-A Outdoor Section With CC5A/CD5A/CD5BA048 Indoor Section																
1225	72	45.9	22.5	3.76	44.1	21.8	4.14	42.1	21.1	4.54	40.1	20.3	4.94	37.9	19.6	5.34
	67	42.1	28.4	3.69	40.4	27.7	4.06	38.6	26.9	4.44	36.7	26.1	4.82	34.6	25.3	5.20
	62	38.5	34.2	3.63	36.8	33.4	3.98	35.2	32.5	4.34	33.3	31.5	4.67	31.4	30.5	5.03
	57	36.5	36.5	3.58	35.2	35.2	3.93	33.9	33.9	4.28	32.5	32.5	4.65	31.0	31.0	5.01
1400	72	46.6	23.4	3.83	44.7	22.7	4.22	42.7	22.0	4.62	40.6	21.2	5.03	38.4	20.4	5.43
	67	42.8	30.0	3.77	41.0	29.3	4.14	39.1	28.5	4.52	37.1	27.7	4.90	35.1	26.9	5.29
	62	39.2	36.3	3.71	37.5	35.4	4.06	35.8	34.5	4.42	33.8	33.4	4.76	32.0	32.0	5.13
	57	37.9	37.9	3.69	36.6	36.6	4.04	35.1	35.1	4.41	33.7	33.7	4.78	32.0	32.0	5.13
1575	72	47.1	24.3	3.91	45.2	23.6	4.30	43.1	22.8	4.70	41.0	22.1	5.11	38.7	21.3	5.52
	67	43.3	31.6	3.84	41.5	30.8	4.22	39.6	30.1	4.60	37.5	29.3	4.99	35.4	28.4	5.37
	62	39.7	38.2	3.78	38.1	37.3	4.14	36.3	36.1	4.50	34.6	34.6	4.88	32.8	32.8	5.24
	57	39.0	39.0	3.77	37.7	37.7	4.13	36.2	36.2	4.50	34.6	34.6	4.88	32.8	32.8	5.24
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling								
			Capacity	Power				Capacity	Power							
CD5A/CD5BA		048	1.00	1.00	FC4BN(F,B)		042	0.99	1.01							
CC5A/CD5A/CD5BA		042	1.00	1.00			048	1.00	1.02							
CD3(A,B)A		042	1.00	1.00	FC4BNB		054	1.04	1.01							
		048	1.00	1.00			048	1.00	1.00							
CC5A/CD5A/CD5BW		042	0.99	1.00	FK4BNF		003	1.00	0.94							
		048	1.00	1.00			005	1.04	0.96							
CC5A/CD5A/CD5BC		048	0.99	1.00			006	1.04	0.95							
CD3CA		042	0.96	1.00			COILS + 355MAV042080 VARIABLE SPEED FURNACE									
		048	0.99	1.00	CD5A/CD5BA		048	0.99	0.94							
CE3AA		042	1.00	1.00	CD3(A,B)A		048	0.99	0.94							
		048	1.01	1.00			COILS + 355MAV060100 VARIABLE SPEED FURNACE									
CF5AA		048	1.00	1.00	CD5A/CD5BA		048	0.99	0.94							
CG5AA		048	1.00	1.00			CD3(A,B)A		048	0.99	0.94					
F(A,B)4AN(F,B)		042	0.99	1.01					—	—	—					
		048	1.01	1.02												

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F															
		85			95			105			115			125			
CFM	EWB	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	Capacity MBtuht†		Total System Kw**	
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		
594D048-A Outdoor Section With CC5A/CD5A/CD5BA060 Indoor Section																	
1500	72	52.3	25.6	4.37	50.2	24.8	4.90	47.9	24.0	5.48	45.6	23.1	6.11	43.1	22.2	6.78	
	67	48.3	32.5	4.35	46.3	31.7	4.87	44.2	30.8	5.45	42.1	29.9	6.08	39.8	29.0	6.73	
	62	44.4	39.2	4.34	42.5	38.3	4.86	40.6	37.3	5.43	38.5	36.2	6.05	36.5	35.1	6.70	
	57	42.0	42.0	4.29	40.5	40.5	4.81	39.0	39.0	5.38	37.4	37.4	5.99	35.7	35.7	6.64	
1700	72	53.1	26.6	4.45	50.8	25.8	4.97	48.5	24.9	5.55	46.1	24.1	6.19	43.5	23.1	6.86	
	67	49.1	34.2	4.42	47.0	33.4	4.95	44.8	32.5	5.52	42.5	31.6	6.15	40.2	30.6	6.81	
	62	45.1	41.5	4.41	43.2	40.5	4.93	41.2	39.4	5.50	39.1	38.2	6.12	37.1	36.8	6.78	
	57	43.4	43.4	4.37	41.8	41.8	4.89	40.2	40.2	5.46	38.5	38.5	6.08	36.8	36.8	6.73	
1800	72	53.4	27.0	4.49	51.1	26.2	5.01	48.7	25.4	5.59	46.3	24.5	6.22	43.7	23.6	6.90	
	67	49.3	35.0	4.46	47.3	34.2	4.98	45.1	33.3	5.56	42.8	32.4	6.19	40.4	31.4	6.85	
	62	45.4	42.5	4.44	43.5	41.5	4.97	41.5	40.3	5.54	39.4	39.0	6.16	37.4	37.4	6.82	
	57	44.0	44.0	4.41	42.4	42.4	4.93	40.8	40.8	5.50	39.1	39.1	6.12	37.3	37.3	6.78	
Multipliers for Determining the Performance With Other Indoor Sections																	
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling									
			Capacity	Power				Capacity	Power								
CC5A/CD5A/CD5BA		060	1.00	1.00	F(A,B)4AN(F,B)		048	0.99	1.02								
CD5A/CD5BA		048	0.99	1.00			060	1.02	1.03								
CD3(A,B)A		048	0.99	1.00	FB4ANB		070	1.02	1.02								
		060	1.00	1.00	FC4BN(F,B)		048	1.00	1.02								
CC5A/CD5A/CD5BC		048	0.96	0.98	FC4BNB		054	1.02	1.01								
CC5A/CD5A/CD5BW		048	0.98	1.00			070	1.02	1.02								
		060	1.02	1.00	FC4BN(F,B)		060	1.02	1.03								
CD3CA		048	0.99	1.00	FG3AAA		048	0.98	1.00								
		060	1.00	1.00			060	1.02	1.00								
CE3AA		048	0.99	0.99	FK4BNB		006	1.03	0.95								
		060	1.02	1.00	COILS + 355MAV060100 VARIABLE SPEED FURNACE												
CF5AA		048	1.00	0.98	CC5A/CD5A/CD5BW		060	1.00	0.96								
CG5AA		048	1.00	0.98			—	—	—								

See notes on page 14.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F															
		85			95			105			115			125			
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		
594D060-A Outdoor Section With CC5A/CD5A/CD5BW060 Indoor Section																	
1750	72	63.6	31.1	5.22	61.1	30.2	5.70	58.6	29.2	6.21	55.6	28.2	6.73	52.5	27.0	7.28	
	67	58.4	39.3	5.14	56.1	38.3	5.60	53.8	37.4	6.10	51.4	36.4	6.64	48.7	35.3	7.22	
	62	53.5	47.3	5.06	51.4	46.3	5.51	49.2	45.2	6.00	46.9	44.0	6.53	44.5	42.8	7.10	
	57	50.7	50.7	5.01	49.1	49.1	5.47	47.4	47.4	5.96	45.6	45.6	6.49	43.7	43.7	7.06	
2000	72	64.5	32.4	5.32	62.0	31.4	5.80	59.3	30.5	6.31	56.3	29.4	6.83	53.4	28.4	7.42	
	67	59.3	41.5	5.23	57.0	40.5	5.70	54.5	39.5	6.20	52.0	38.5	6.74	49.3	37.4	7.32	
	62	54.4	50.2	5.15	52.2	49.1	5.60	50.0	47.9	6.10	47.7	46.6	6.63	45.3	45.0	7.20	
	57	52.5	52.5	5.12	50.8	50.8	5.58	49.0	49.0	6.07	47.1	47.1	6.61	45.0	45.0	7.18	
2250	72	65.2	33.5	5.42	62.6	32.6	5.90	59.9	31.6	6.41	56.7	30.5	6.93	54.1	29.6	7.55	
	67	60.3	43.7	5.35	57.6	42.7	5.80	55.1	41.7	6.30	52.5	40.6	6.84	49.7	39.5	7.42	
	62	55.4	53.0	5.28	53.2	51.8	5.74	50.7	50.2	6.20	48.4	48.4	6.73	46.2	46.2	7.31	
	57	54.2	54.2	5.25	52.4	52.4	5.72	50.5	50.5	6.22	48.3	48.3	6.72	46.1	46.1	7.30	
Multipliers for Determining the Performance With Other Indoor Sections																	
Indoor Section		Size	Cooling		Indoor Section	Size	Cooling										
			Capacity	Power			Capacity	Power									
CC5A/CD5A/CD5BW		060	1.00		FB4ANB		070	1.04									
CC5A/CD5A/CD5BA		060	0.96		FC4BNB		070	1.04									
CD3(A,B)A		060	0.96		FC4BN(F,B)		060	1.01									
CD3CA		060	1.00		FC4BNB		054	1.02									
		070	1.01		FG3AAA		060	1.00									
CE3AA		060	1.02		FK4BNB		006	1.03									
F(A,B)4AN(F,B)		060	1.02				—	—									

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI Standard 210/240-89. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

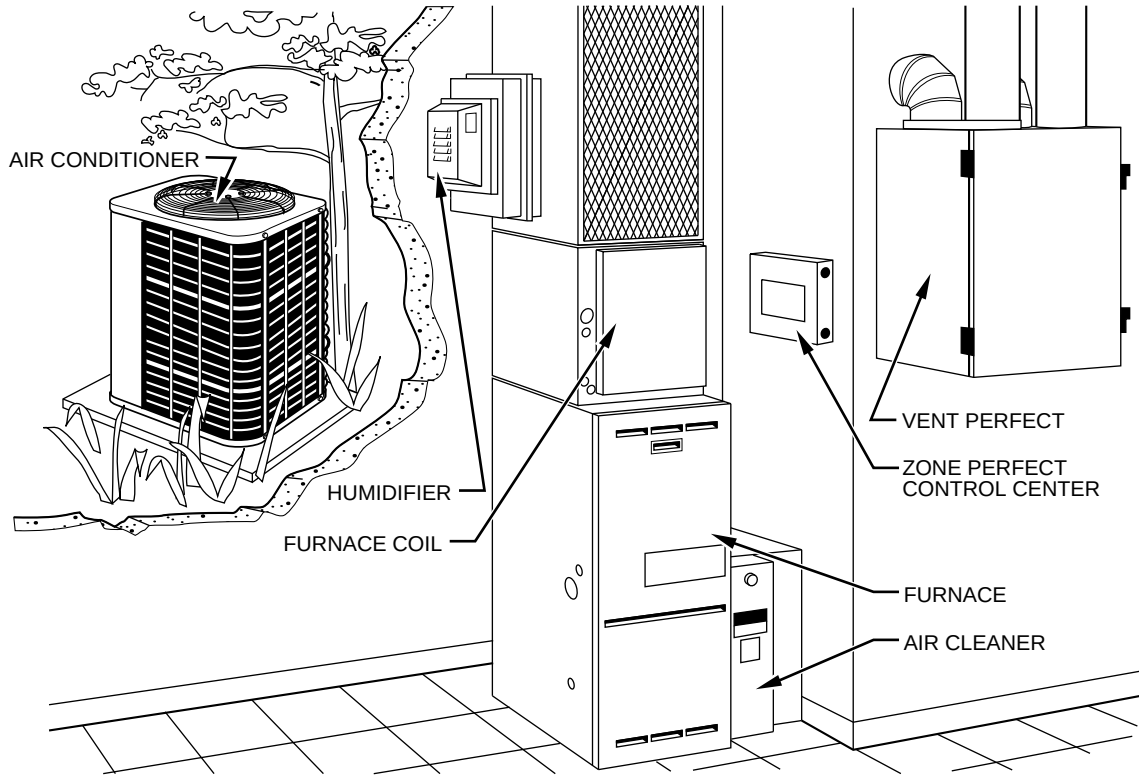
‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kw) per 1000 Cfm (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kw) per 1000 Cfm (480 L/S) of indoor coil air per degree above 80°F (27°C). When the required data falls between the published data, interpolation may be performed.

** Unit kw is total of indoor and outdoor unit kilowatts.

ACCESSORY DESCRIPTION AND USAGE

- 1. Coastal Filter**
A mesh screen inserted under the top cover and inside the base pan to protect the condenser coil from salt damage without restricting airflow.
SUGGESTED USE: In geographic areas where salt damage could occur.
- 2. Support Feet**
Four stick-on plastic feet which raise the unit 4 inches above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base; minimizes corrosion.
SUGGESTED USE: Coastal installations.
Windy areas or where debris is normally circulating.
Rooftop installations.
- 3. Time-Delay Relay**
A SPST delay relay which briefly continues operation of the indoor blower motor to provide additional cooling after the compressor cycles off.
SUGGESTED USE: For improved efficiency ratings for certain combinations of indoor and outdoor units. (Refer to ARI Unitary Directory.)
- 4. Compressor Start Assist-PTC Type**
Solid state electrical device which gives a "soft" boost to the reciprocating compressor at each start-up.
SUGGESTED USE: Installations with marginal power supply.
Replacement installations with rapid pressure balance.
(RPB) expansion valve on indoor coil.
Replacement installations with undersized interconnecting refrigerant tubes.
- 5. Compressor Start Assist-Capacitor/Relay Type**
Start capacitor and start relay gives "hard" boost to compressor motor at each start-up.
SUGGESTED USE: Installations where interconnecting tube length exceeds 50 ft.
Installations where outdoor design temperature exceeds 105°F (40.6°C).
Replacement installations with hard shut-off expansion valve on indoor coil.
- 6. Thermostatic Expansion Valve (TXV) Kits**
A modulating flow control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator. Kit includes valve, adapter tubes, and external equalizer tube. Both hard shut-off and RPB type valves are available.
SUGGESTED USE: For improved system performance in cooling mode for certain combinations of indoor and outdoor units. (Refer to ARI Unitary Directory.)
- 7. Low-Pressure Switch**
Auto reset SPST switch activated by refrigerant pressure on low side of refrigerant circuit. Cycles compressor off if refrigerant pressure drops to about 27 psig. Prevents indoor coil freeze-up due to loss of indoor airflow. Also, provides additional protection against compressor damage due to loss of refrigerant charge. To prevent rapid compressor recycling, Compressor Short Cycle Protector can be used with this switch.
SUGGESTED USE: Where indoor coil is exposed to "dirty" air.
All commercial installations.
- 8. High-Pressure Switch**
Auto reset SPST switch activated by refrigerant pressure on high side of refrigerant circuit. Cycles compressor off if refrigerant pressure rises to about 400 psig. Provides additional protection against compressor damage due to loss of outdoor airflow. To prevent rapid compressor recycling, Compressor Short Cycle Protector can be used with this switch.
SUGGESTED USE: Installations exposed to very "dirty" outdoor air.
Installations where condenser inlet air temperature exceeds 125°F (51.7°C).
- 9. Filter Drier**
A device for removing contaminants from refrigerant circulating in an air conditioner; one direction flow for air conditioners.
SUGGESTED USE: All field-connected split-system air conditioners.
- 10. Liquid Solenoid Valve (LLS)**
An electrically operated shut-off valve to be installed at the outdoor or indoor unit (depending on tubing configuration) and which stops and starts refrigerant liquid flow in response to compressor operation. Maintains a column of refrigerant liquid ready for action at next compressor operation cycle. Note: Compressor start assist—Capacitor/Relay type must also be used.
SUGGESTED USE: For improved system performance in air conditioners for certain combinations of indoor and outdoor units. (Refer to ARI Unitary Directory.)
In certain long-line applications (refer to Long-Line Application Guideline).
- 11. Low-Ambient Controller**
Head pressure controller is a cycle control device activated by a temperature sensor mounted on a header tube of the outdoor coil. It is designed to cycle the outdoor fan motors in order to maintain condensing temperature within normal operating limits (approximately 130° to 110°F high, 70° to 50°F low). The control will maintain working head pressure at low-ambient temperatures down to -20°F when properly installed.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
All commercial installations.
- 12. Winter Start Control**
A SPST delay relay which bypasses the low-pressure switch for approximately 3 minutes to permit start up for cooling operation under low load conditions.
SUGGESTED USE: All air conditioners where Low-Ambient Operation Kit has been added.
- 13. Evaporator Freeze Thermostat**
A SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.
SUGGESTED USE: All units where Low-Ambient Operation Kit has been added.

MATCHED SYSTEM



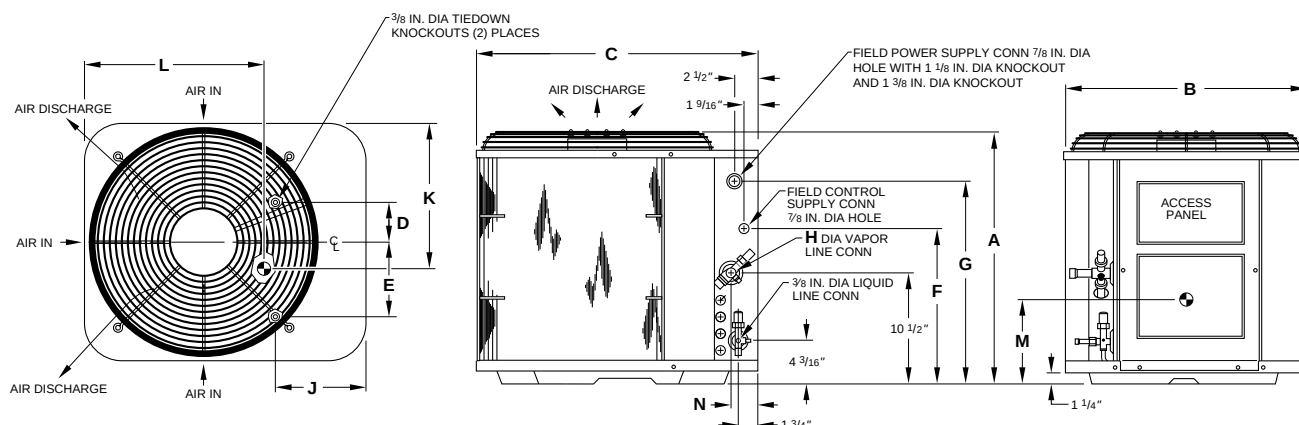
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SYSTEM DESIGN

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 without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. 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 6 and 7 following).
6. For interconnecting refrigerant tube lengths greater than 50 ft, consult Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnecting refrigerant tube length exceeds 50 feet.
8. Not more than 3 ft of refrigerant tube should be buried in the ground. If necessary to bury tubes under a sidewalk, provide a minimum 6-inch vertical rise to the valve connections at the unit.
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Mixmatches of indoor coil capacity more than 1 size larger than outdoor unit capacity may result in inadequate indoor comfort.

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	H	J	K	L	M	N	SHIPPING WEIGHT
594D018	A	X	27 13/16"	22 1/2"	26 3/16"	4 1/8"	7 1/8"	15 15/16"	22 3/8"	5/8"	8 3/16"	12"	14 5/8"	11"	2 3/8"	143#
594D024	A	X	27 13/16"	22 1/2"	26 3/16"	4 1/8"	7 1/8"	15 15/16"	22 3/8"	5/8"	8 3/16"	12"	14 5/8"	11"	2 3/8"	148#
594D030	A	X	33 13/16"	22 1/2"	26 3/16"	4 1/8"	7 1/8"	21 15/16"	28 3/8"	3/4"	8 3/16"	12"	14 5/8"	13 1/2"	2 3/8"	158#
594D036	A	X	27 13/16"	30"	33"	5 1/16"	9 11/16"	15 15/16"	22 3/8"	3/4"	8 3/16"	16 1/4"	20 3/8"	11"	2 15/16"	205#
594D042	A	X	33 13/16"	30"	33"	5 1/16"	9 11/16"	21 15/16"	28 3/8"	7/8"	8 3/16"	16 1/4"	20 3/8"	13 1/2"	2 15/16"	218#
594D048	A	X	33 13/16"	30"	33"	5 1/16"	9 11/16"	21 15/16"	28 3/8"	7/8"	8 3/16"	16 3/4"	20 3/8"	13 1/2"	2 15/16"	252#
594D048	B	X	39 13/16"	30"	33"	5 1/16"	9 11/16"	27 15/16"	34 3/8"	7/8"	8 3/16"	16 3/4"	20 3/8"	15"	2 15/16"	284#
594D060	A	X	39 13/16"	30"	33"	5 1/16"	9 11/16"	27 15/16"	34 3/8"	7/8"	8 3/16"	16 3/4"	20 3/8"	15"	2 15/16"	292#

208/230-1-60



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18, 24, 30	20" x 27"
36, 42, 48, 60	26" x 32"

NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F. (UNLESS LOW AMBIENT CONTROL IS USED) MAX. 125°F.
3. SERIES DESIGNATION IS THE 14TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY ●.

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SERVICE TRAINING

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

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

A large selection of product, theory, and skills programs is available, using popular video-based formats and materials. All include video and/or slides, plus companion book.

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: New