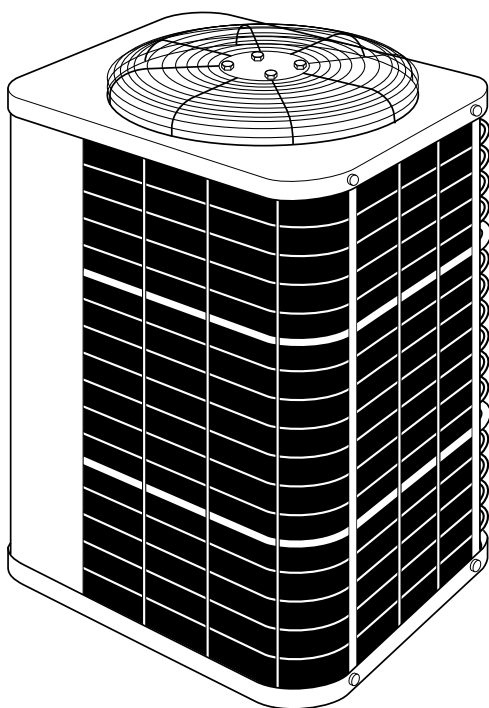


INTRODUCING THE AEROQUIET SYSTEM



The **AeroQuiet System (AQS)** consists of 4 design features to achieve ultra-low sound ratings.

Aerocooustic Design featuring the Aeromax opening and wire dome top results in quieter and more efficient operation.

Energy-Efficient Fan and Fan Motor provide a slower fan operation, thus reducing noise and improving efficiency.

Sound Hood muffles noise from operation.

Discharge Muffler minimizes low frequency sound and pressure pulsation generated by compressor discharge gas.

The 697C Outdoor Sections of Split-System Heat Pumps are designed for quiet, reliable heating during the winter and cooling during the summer. These heat pump systems provide economy of operation through energy conservation with SEER up to 14.0 and HSPF up to 9.0. They recover heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, remove indoor heat and excess humidity during the cooling season. All models are listed with UL, c-UL, ARI, and CEC.

FEATURES

ELECTRICAL RANGE—All units are single phase 208/230v.

COMPRESSOR—This unit features a scroll compressor, which is significantly more efficient than conventional compressors. Its simple design offers improved reliability. Each compressor is mounted on rubber isolators for additional sound reduction. The scroll compressor starts under most system loads, thus eliminating the need for start assistance components. For improved serviceability, the 024 through 042 models are equipped with a compressor terminal plug. Continuous operation is approved down to -30°F (-34.4°C) in the heating mode and down to 55°F (12.8°C) in the cooling mode. (See heating and cooling performance tables.) The scroll compressor is covered with a standard 10-year limited warranty.

BUILT-IN-RELIABILITY COMPONENTS—All units include a suction tube accumulator that minimizes the amount of liquid refrigerant that reaches the compressor; a high-pressure switch for high-pressure protection; and a low-pressure switch for loss of charge protection.

DEFROST CONTROL BOARD—Incorporates a built-in 5-minute compressor time-delay relay, defrost relay, defrost timer, and low-voltage terminal board. The defrost control is a time/temperature initiation/termination control, which includes 3 field-selectable time periods of 30, 50, and 90 minutes.

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

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

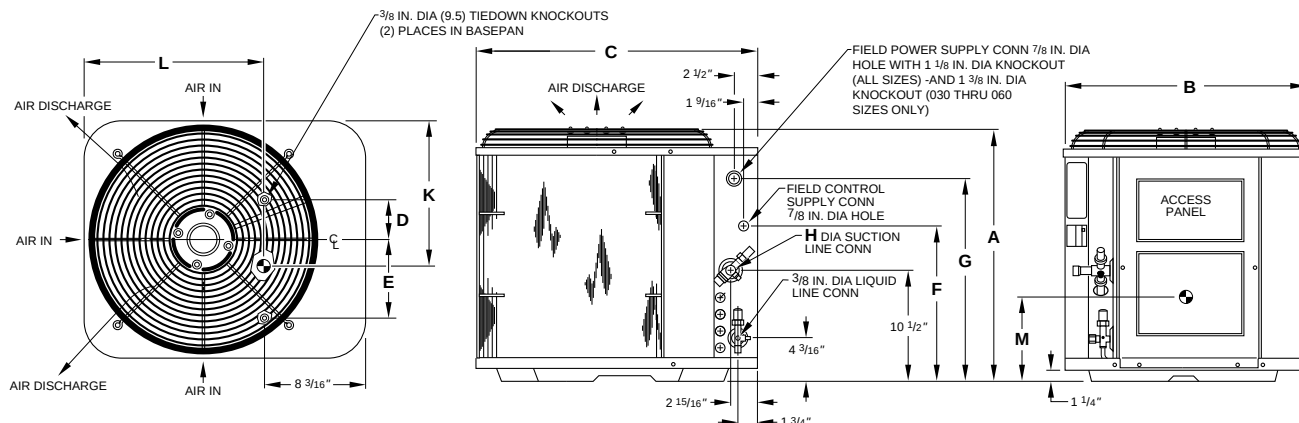
UNIT DESIGN—All units are equipped with totally enclosed fan motors for greater reliability under rain and snow conditions. The large, wraparound coil uses copper tube and enhanced aluminum fin and is designed for optimum heat transfer during heating and cooling. The vertical air discharge carries the sound and air up and away from adjacent patio areas and foliage. Rows of composite coils can be cleaned with a common garden hose.

EXTERNAL SERVICE VALVES—Both service valves are brass, back seating type with sweat connections. Each valve has a service port for ease of checking operating refrigerant pressures. The suction service port provides for ease of checking op

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

NOTES:

1. Allow 30 in. clearance to service end 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 (unless low ambient control is used) max 125°F.
3. Maximum outdoor operating ambient in heating mode is 66°F.
5. Series designation is the 14th position of the unit model number.
6. Center of gravity .



A92051

DIMENSIONS

UNIT SIZE	SERIES	A In.	B In.	C In.	D In.	E In.	F In.	G In.	H In.	K In.	L In.	M In.
024	A	33-13/16	30	33	5-1/16	9-11/16	21-15/16	28-3/8	3/4	16-13/16	20-1/2	14
030	A, B	33-13/16	30	33	5-1/16	9-11/16	21-15/16	28-3/8	3/4	16-1/2	20-3/8	15
036	A, B	39-13/16	30	33	5-1/16	9-11/16	27-15/16	34-3/8	7/8	16-1/2	20-3/8	16
042	A, B	33-13/16	30	33	5-1/16	9-11/16	21-15/16	28-3/8	7/8	16-1/2	20-3/8	15
048	A	39-13/16	30	33	5-1/16	9-11/16	27-15/16	34-3/8	7/8	15-13/16	19-7/8	16
060	A	39-13/16	38-5/8	42-1/16	7-1/8	12-1/8	27-15/16	34-3/8	7/8	19-7/8	26	17-1/2

RECOMMENDED TUBE DIAMETERS

UNIT SIZE	TUBE LENGTH (Ft)*	LIQUID TUBE DIAMETER (In.)	VAPOR TUBE DIAMETER (In.)
024, 030	0 to 50	3/8	3/4
036-048			7/8
060			1-1/8

* For tube set over 50 ft, consult Long-Line Application Guideline.

METERING DEVICE

UNIT SIZE	SERIES	OUTDOOR PISTON	INDOOR TXV*
024	A	49	KHATX1001HSO
030	A, B	52	KHATX1101HSO
036	A, B	59	KHATX1201HSO
042	A, B	63	KHATX1201HSO
048	A	70	KHATX1301HSO
060	A	73	KHATX1401HSO

* TXV must be installed when indoor coil is not equipped with a TXV. TXV listed is for any approved coil combination. All TXV's are bi-flow, hard shut-off.



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

TECHNICAL DATA

UNIT SIZE	024-A	030-A/B	036-A/B	042-A/B
Operating Weight	193	221	211	231
ELECTRICAL				
Unit Volts-Hertz-Phase	208/230-60-1			
Operating Voltage Range	187—253			
Unit Ampacity for Wire Sizing	15.0	18.7	23.3/21.0	32.0
Min Wire Size (60°C/75°C Copper) (AWG)*	14/14	14/14	12/12	8/10
Maximum Length (60°C/75°C) (ft)††	53/50	41/39	52/50/60/57	97/59
Max. Branch Circuit Fuse Size (Amps)	25	30	40/30	50
Compressor Rated Load Amps	11.6	14.2	17.9/16.0	24.9
Locked Rotor Amps	62.5	76.0/72.5	90.5/88.0	107.0/104.0
Fan Motor HP and RPM	1/15 and 800	1/8 and 825	1/8 and 825	1/8 and 825
Full Load Amps	1.0	1.0	1.0	1.0
COMPRESSOR AND REFRIGERANT				
Compressor Type	Scroll			
Refrigerant—Type and Amount (lb)†	R-22 and 5.63	R-22 and 8.88	R-22 and 7.13	R-22 and 10.88
OUTDOOR COIL AND FAN				
Coil Face Area (sq ft)	15.15	15.15	18.18	15.15
Rated Airflow (CFM)	2000	2400	2800	2400
OPTIONAL EQUIPMENT				
Support Feet Kit—4 in. (4)	KSASF0101AAA			
Snow Stand—18 in.	KHASS0206MPK			
Time-Delay Relay	KAATD0101TDR			
EnergyMinder/Outdoor Thermostat and Lockout Relay	KHAIC0101AAA/KHAIC0201AAA			
Service Alarm†††	KHASA0101AAA			
Outdoor Thermostat	KHAOT0301FST			
Secondary Outdoor Thermostat	KHAOT0201SEC			
Cycle Protector	Standard			
Crankcase Heater	KAACH1201AAA			
Start Assist—PTC	N/A			
Crankcase Heater	KAACH1201AAA			
Start Capacitor and Relay	N/A			
Sound Hood	Standard			
TXV Kits (Hard Shut-off)	KHATX1001HSO	KHATX1101HSO	KHATX1201HSO	
TXV Kits (RPB)	N/A			
Low-Pressure Switch	Standard			
High-Pressure Switch	Standard			
Evaporator Freeze Thermostat‡‡	KAAFT0101AAA			
Isolation Relay‡‡	KHAIR0101AAA			
Liquid Solenoid Valve	KHALS0101LLS			
Filter Drier—Bi-flow	P504-8083S			P504-8163S
Low-Ambient Controller	P251-0083			
Thermostat and Subbase— 2-Stage Heat, 1-Stage Cool— Auto Changeover—°F/°C	HH07QW002			
Thermostat and Subbase— 2-Stage Heat, 1-Stage Cool— Manual Changeover—°F/°C	HH07QW001			
Thermostat (1 Piece) Night Setback— 2-Stage Heat, 1-Stage Cool— Auto Changeover—°F, 5-2 Day Programmable	HH07PE001			

See notes on page 4.

TECHNICAL SPECIFICATIONS

UNIT SIZE	048-A	060-A
Operating Weight	265	327
ELECTRICAL		
Unit Volts-Hertz-Phase	208/230-60-1	
Operating Voltage Range	187—253	
Unit Ampacity for Wire Sizing	34.0	45.0
Min Wire Size (60°C/75°C Copper) (AWG)*	8/10	6/8
Maximum Length (60°C/75°C)(ft)††	91/56	116/66
Max. Branch Circuit Fuse Size (Amps)	50	60
Compressor Rated Load Amps	26.5	34.9
Locked Rotor Amps	129.0	169.0
Fan Motor HP and RPM	1/8 and 825	1/5 and 820
Full Load Amps	1.0	1.4
COMPRESSOR AND REFRIGERANT		
Compressor	Scroll	
Refrigerant—Type and Amount(lb)†	R-22 and 11.88	R-22 and 14.88
OUTDOOR COIL AND FAN		
Coil Face Area (sq ft)	18.18	24.89
Rated Airflow (CFM)	2800	3600
OPTIONAL EQUIPMENT		
Support Feet—4 in. (4)	KSASF0101AAA	
Snow Rack—18 in.	KHASS0206MPK	KHASS0306MPK
Time-Delay Relay	KAATD0101TDR	
EnergyMinder/Outside Thermostat and Lockout Relay	KHAIC0101AAA/KHAIC0201AAA	
Service Alarm†††	KHASA0101AAA	
Outdoor Thermostat	KHAOT0301FST	
Secondary Outdoor Thermostat	KHAOT0201SEC	
Cycle Protector	Standard	
Crankcase Heater	KAACH1201AAA	
Start Assist—PTC	N/A	
Start Capacitor and Relay	N/A	
Sound Hood	Standard	
Bi-flow TXV Kits (Hard Shut-off)	KHATX1301HSO	KHATX1401HSO
Bi-flow TXV Kits (RPB)	N/A	
Low-Pressure Switch	Standard	
High-Pressure Switch	Standard	
Evaporator Freeze Thermostat‡‡	KAAFT0101AAA	
Isolation Relay‡‡	KHAIR0101AAA	
Liquid Solenoid Valve (LSV)	KHALS0101LLS	
Filter Drier—Bi-flow	504-8163S	
Low-Ambient Controller	P251-0083	
Thermostat and Subbase— 2-Stage Heat, 1-Stage Cool— Manual Changeover—°F/°C	HH07QW001	
Thermostat and Subbase— 2-Stage Heat, 1-Stage Cool— Auto Changeover—°F/°C	HH07QW002	
Thermostat (1 Piece) Night Setback— 2-Stage Heat, 1-Stage Cool— Auto Changeover—°F, 5-2 Day Programmable	HH07PE001	

* If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEC (ANSI/NFPA 70). If other than uncoated (non-plated), 60° 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). 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.

† The factory refrigerant charge is for 15 ft of interconnecting tubing. For tubing lengths other than 15 ft, see Long-Line Application Guideline for additional refrigerant requirements.

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

‡‡ Used with low-ambient controller.

††† For indicator light function, thermostat specified must be used and wired according to efficiency service alarm Installation Instructions.

N/A—Not Applicable

UNIT SIZE AND SOUND RATING (Bels)	INDOOR UNIT	ARI STANDARD RATINGS*									
		Cooling					Heating				
		TC	Seasonal Efficiency SEER			High-Temp		Low-Temp		Seasonal Efficiency HSPF/HSPF with LSV	
			Factory- Supplied Enhance- ment	Standard Rating	Field-Supplied Accessory†						
TXV	TXV & TDR	TC			COP	TC	COP				
024-A 											

See notes on page 6.

[illegible]

* 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-Temp 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-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (–9°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.

‡ See TDR.90 table. Requires hard shut-off 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

LSV — Liquid Solenoid Valve

TDR.90 TABLE

METHOD	PART/MODEL NO.
Time-Delay Relay	KAATD0101TDR
Furnaces with TDR	330AAV, 331AAV, 340MAV, 350MAV, 355MAV, 395C, 376C, 398A, 398B, 399A, 349MAV, 383KAV, 373LAV, 394HAD, 396HAD, 320A, 321A

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.

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
		Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
697C024-A Outdoor Section With FC4BNF030 Indoor Section													
700	72	25.8	13.0	1.93	24.6	12.6	2.13	23.5	12.2	2.37	22.2	11.7	2.63
	67	23.6	16.6	1.92	22.5	16.1	2.13	21.4	15.7	2.36	20.4	15.3	2.63
	63††	21.9	16.1	1.92	20.9	15.6	2.12	20.0	15.3	2.36	19.0	14.8	2.62
	62	21.6	20.0	1.92	20.6	19.5	2.12	19.7	19.1	2.36	18.8	18.5	2.61
	57	20.9	20.9	1.91	20.2	20.2	2.12	19.5	19.5	2.36	18.7	18.7	2.62
800	72	26.2	13.6	1.96	24.9	13.2	2.17	23.7	12.7	2.40	22.6	12.4	2.68
	67	23.9	17.6	1.96	22.8	17.2	2.16	21.8	16.8	2.40	20.8	16.4	2.68
	63††	22.2	17.1	1.95	21.2	16.6	2.15	20.2	16.2	2.40	19.2	15.7	2.65
	62	22.0	21.3	1.95	21.0	20.8	2.15	20.2	20.2	2.40	19.3	19.3	2.65
	57	21.8	21.8	1.95	21.0	21.0	2.16	20.2	20.2	2.40	19.3	19.3	2.66
900	72	26.4	14.2	1.99	25.2	13.7	2.20	24.1	13.4	2.45	22.9	13.0	2.72
	67	24.2	18.6	1.99	23.1	18.2	2.20	22.0	17.7	2.43	20.9	17.3	2.71
	63††	22.5	18.0	1.98	21.5	17.6	2.20	20.4	17.1	2.43	19.5	16.7	2.70
	62	22.4	22.4	1.98	21.6	21.6	2.20	20.7	20.7	2.43	19.8	19.8	2.69
	57	22.4	22.4	1.99	21.6	21.6	2.19	20.7	20.7	2.43	19.8	19.8	2.69
Multipliers for Determining the Performance With Other Indoor Sections8													
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling					
			Capacity	Power				Capacity	Power				
FC4BNF		024	0.98	1.01	CC5A/CD5A/CD5BA		024	0.97	1.01				
		030	1.00	1.00			030	0.98	1.01				
		033	1.02	1.01			036	1.01	1.01				
F(A,B)4ANF		024	0.98	1.01	CC5A/CD5A/CD5BW		030	0.98	1.01				
		030	1.00	1.00			036	1.01	1.01				
FD3ANA		024	0.96	0.99	CD3(A,B)A		024	0.97	1.01				
		030	0.99	1.02			030	0.98	1.01				
FF1(A,B)NA		024	0.98	1.01			036	1.01	1.01				
		030	1.00	1.02	CE3AA		024	0.97	1.01				
FG3AAA		024	0.96	1.01			030	0.99	1.01				
FK4BNF		001	1.03	0.94	CF5AA		024	0.98	1.01				
		002	1.04	0.94			—	—	—				
		003	1.04	0.91									
697C030-A, B Outdoor Section With FC4BNF036 Indoor Section													
850	72	32.1	16.0	2.43	30.7	15.5	2.65	29.3	14.9	2.89	27.8	14.4	3.16
	67	29.3	20.3	2.41	28.0	19.8	2.62	26.8	19.3	2.86	25.5	18.8	3.13
	63††	27.3	19.7	2.39	26.1	19.2	2.60	24.8	18.7	2.84	23.4	18.1	3.10
	62	26.8	24.5	2.38	25.8	24.0	2.60	24.5	23.4	2.84	23.2	22.7	3.10
	57	26.0	26.0	2.38	25.1	25.1	2.59	24.2	24.2	2.83	23.1	23.1	3.10
950	72	32.4	16.5	2.47	31.0	16.0	2.69	29.6	15.5	2.94	28.0	15.0	3.20
	67	29.8	21.4	2.45	28.4	20.8	2.67	27.1	20.3	2.91	25.6	19.7	3.17
	63††	27.7	20.7	2.43	26.4	20.2	2.65	25.2	19.7	2.89	23.8	19.1	3.15
	62	27.3	25.9	2.43	26.2	25.3	2.64	25.1	24.7	2.89	23.8	23.8	3.15
	57	26.8	26.8	2.43	25.9	25.9	2.64	24.9	24.9	2.89	23.8	23.8	3.15
1050	72	32.9	17.2	2.52	31.5	16.7	2.74	30.0	16.1	2.98	28.1	15.5	3.25
	67	30.0	22.4	2.49	28.7	21.8	2.71	27.4	21.3	2.95	25.9	20.7	3.22
	63††	27.9	21.6	2.48	26.6	21.1	2.69	25.4	20.6	2.93	24.1	20.0	3.20
	62	27.8	27.2	2.48	26.6	26.4	2.69	25.5	25.5	2.93	24.4	24.4	3.20
	57	27.5	27.5	2.47	26.6	26.6	2.69	25.6	25.6	2.94	24.4	24.4	3.20
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling					
			Capacity	Power				Capacity	Power				
FC4BNF		030	0.99	0.98	CC5A/CD5A/CD5BA		030	0.98	0.98				
		033	1.01	0.98			036	1.01	0.99				
		036	1.00	1.00			030	0.98	0.98				
F(A,B)4ANF		030	0.99	0.98	CD5A/CD5BW		036	1.01	0.99				
		036	1.00	1.00			030	0.98	0.98				
FD3ANA		030	0.99	0.99	CD3(A,B)A		036	1.01	0.99				
FF1(A,B)NA		030	0.99	0.99			030	0.99	0.98				
FG3AAA		036	0.99	0.98			036	1.00	0.98				
FK4BNF		001	1.02	0.94	CF5AA		036	1.01	0.99				
		002	1.03	0.94			—	—	—				
		003	1.04	0.92									
		004	1.05	0.93									

See notes on page 10.

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
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**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
697C036-A, B Outdoor Section With FC4BN(F,B)042 Indoor Section													
1100	72	38.6	19.8	3.05	37.0	19.2	3.35	35.2	18.6	3.67	33.2	17.9	4.02
	67	35.6	25.7	3.02	34.0	25.0	3.31	32.3	24.3	3.63	30.4	23.6	3.98
	63††	33.2	25.0	3.00	31.7	24.3	3.29	30.1	23.6	3.60	28.4	22.9	3.96
	62	32.8	32.8	3.00	31.4	30.4	3.28	29.9	29.6	3.60	28.5	28.5	3.96
	57	32.2	32.2	2.98	31.1	31.1	3.28	29.8	29.8	3.60	28.4	28.4	3.95
1200	72	38.9	20.4	3.09	37.3	19.8	3.39	35.4	19.2	3.71	33.3	18.5	4.06
	67	35.9	26.7	3.07	34.2	26.1	3.35	32.4	25.4	3.67	30.8	24.7	4.03
	63††	33.5	25.9	3.04	31.9	25.2	3.33	30.4	24.6	3.66	28.7	23.8	4.00
	62	33.2	32.5	3.04	31.8	31.6	3.33	30.4	30.4	3.64	29.0	29.0	4.00
	57	32.9	32.9	3.03	31.8	31.8	3.33	30.4	30.4	3.64	28.9	28.9	3.99
1300	72	39.1	21.0	3.13	37.5	20.4	3.43	35.5	19.7	3.75	33.5	19.0	4.10
	67	36.1	27.7	3.10	34.4	27.1	3.39	32.8	26.4	3.73	30.9	25.7	4.07
	63††	33.7	26.9	3.08	32.1	26.2	3.37	30.6	25.5	3.69	28.8	24.7	4.04
	62	33.7	33.5	3.08	32.3	32.3	3.37	30.9	30.9	3.69	29.5	29.5	4.05
	57	33.7	33.7	3.08	32.3	32.3	3.37	30.9	30.9	3.69	29.5	29.5	4.05
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section		Unit Size	Cooling		Indoor Section	Unit Size	Cooling						
			Capacity	Power			Capacity	Power					
FC4BN(F,B)		042	1.00		CC5A/CD5A/CD5BA		036		0.99		0.99		
FC4BNF		033	1.00				042		0.99		0.99		
		036	0.98		1.01		043		0.99		0.99		
F(A,B)4ANF		036	0.98		1.01		CC5A/CD5A/CD5BW		042		0.99		0.99
F(A,B)4AN(F,B)		042	1.00		1.00				043		0.99		0.99
FG3AAA		036	0.98		0.99		CD5A/CD5BW		036		0.99		0.99
FK4BNF		001	0.99		0.97		CD3(A,B)A		036		0.99		0.99
		002	0.99		0.98				042		0.99		0.99
		003	1.02		0.94		CE3AA		036		0.98		0.99
		004	1.01		0.96				042		1.01		0.99
		—	—		—		CF5AA		036		0.99		0.99
697C042-A Outdoor Section With FK4BNF005 Indoor Section													
1202	72	46.5	23.9	3.36	44.4	23.1	3.70	42.1	22.3	4.07	40.1	21.6	4.48
	67	42.8	30.6	3.30	41.0	29.9	3.65	39.0	29.1	4.02	36.9	28.2	4.42
	63††	40.0	29.8	3.26	38.4	29.1	3.61	36.5	28.2	3.97	34.4	27.4	4.36
	62	39.5	37.1	3.25	37.9	36.3	3.60	36.3	35.5	3.97	34.2	34.2	4.36
	57	38.7	38.7	3.25	37.4	37.4	3.59	35.9	35.9	3.96	34.2	34.2	4.36
1335	72	47.0	24.8	3.40	44.8	24.1	3.74	42.5	23.3	4.11	40.4	22.5	4.52
	67	43.3	32.2	3.34	41.5	31.5	3.69	39.4	30.6	4.06	37.2	29.8	4.46
	63††	40.5	31.3	3.30	38.8	30.5	3.65	36.8	29.7	4.01	34.7	28.8	4.41
	62	40.1	39.1	3.30	38.6	38.2	3.64	37.0	37.0	4.02	35.1	35.1	4.41
	57	39.9	39.9	3.29	38.5	38.5	3.64	36.8	36.8	4.01	35.1	35.1	4.41
1469	72	47.4	25.7	3.44	45.2	25.0	3.78	42.8	24.2	4.15	40.7	23.5	4.56
	67	43.7	33.8	3.38	41.9	33.0	3.73	39.7	32.2	4.10	37.5	31.3	4.50
	63††	40.9	32.7	3.34	39.2	32.0	3.68	37.1	31.1	4.05	35.0	30.2	4.44
	62	40.8	40.8	3.34	39.3	39.3	3.69	37.8	37.8	4.07	35.8	35.8	4.46
	57	40.8	40.8	3.34	39.4	39.4	3.69	37.7	37.7	4.06	35.9	35.9	4.46
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section		Unit Size	Cooling		Unit Section	Unit Size	Cooling						
			Capacity	Power			Capacity	Power					
FK4BNF		005	1.00		CC5A/CD5A/CD5BW		042		0.93		1.01		
FK4BNB		003	0.95				043		0.93		1.01		
FC4BNF		038	0.98				048		0.93		1.00		
FC4BN(F,B)		042	0.93		CC5A/CD5A/CD5BC		048		0.93		1.01		
		048	0.95		CD5A/CD5BA		048		0.93		1.00		
F(A,B)4AN(F,B)		042	0.93		CD3(A,B)A		042		0.93		1.01		
		048	0.95				048		0.93		1.00		
FG3AAA		048	0.94		CE3AA		042		0.94		1.02		
CC5A/CD5A/CD5BA		042	0.93				048		0.94		1.02		
		043	0.93		CF5AA		048		0.94		1.02		

See notes on page 10.

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
		Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
697C042-B Outdoor Section With FK4BNB005 Indoor Section													
1202	72	46.5	23.9	3.24	44.4	23.1	3.57	42.1	22.3	3.93	40.1	21.6	4.33
	67	42.8	30.6	3.19	41.0	29.9	3.52	39.0	29.1	3.88	36.9	28.2	4.26
	63††	40.0	29.8	3.15	38.4	29.1	3.48	36.5	28.2	3.83	34.4	27.4	4.21
	62	39.5	37.1	3.14	37.9	36.3	3.47	36.3	35.5	3.83	34.2	34.2	4.21
	57	38.7	38.7	3.13	37.4	37.4	3.47	35.9	35.9	3.82	34.2	34.2	4.21
1335	72	47.0	24.8	3.28	44.8	24.1	3.61	42.5	23.3	3.97	40.4	22.5	4.37
	67	43.3	32.2	3.23	41.5	31.5	3.56	39.4	30.6	3.92	37.2	29.8	4.30
	63††	40.5	31.3	3.19	38.8	30.5	3.52	36.8	29.7	3.87	34.7	28.8	4.25
	62	40.1	39.1	3.18	38.6	38.2	3.51	37.0	37.0	3.88	35.1	35.1	4.26
	57	39.9	39.9	3.18	38.5	38.5	3.51	36.8	36.8	3.87	35.1	35.1	4.26
1469	72	47.4	25.7	3.32	45.2	25.0	3.65	42.8	24.2	4.01	40.7	23.5	4.41
	67	43.7	33.8	3.27	41.9	33.0	3.60	39.7	32.2	3.96	37.5	31.3	4.34
	63††	40.9	32.7	3.23	39.2	32.0	3.56	37.1	31.1	3.91	35.0	30.2	4.29
	62	40.8	40.8	3.22	39.3	39.3	3.56	37.8	37.8	3.93	35.8	35.8	4.31
	57	40.8	40.8	3.22	39.4	39.4	3.56	37.7	37.7	3.92	35.9	35.9	4.31

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Unit Size	Cooling		Indoor Section	Unit Size	Cooling	
		Capacity	Power			Capacity	Power
FK4BNB	005	1.00	1.00	CC5A/CD5A/CD5BW	042	0.93	1.01
FK4BNF	003	0.95	0.98		043	0.94	1.01
FC4BNF	038	0.98	1.04		048	0.94	1.01
FC4BN(F,B)	042	0.94	1.02	CC5A/CD5A/CD5BC	048	0.93	1.01
	048	0.95	1.03		048	0.94	1.01
F(A,B)4AN(F,B)	042	0.94	1.02	CD3(A,B)A	042	0.94	1.01
	048	0.95	1.03		048	0.94	1.01
	048	0.94	1.01		042	0.95	1.02
FG3AAA	048	0.94	1.01	CE3AA	048	0.95	1.02
CC5A/CD5A/CD5BA	042	0.94	1.01		048	0.95	1.02
	043	0.94	1.01	CF5AA	048	0.95	1.02

697C048-A Outdoor Section With FK4BNB006 Indoor Section

1350	72	53.7	27.0	3.98	51.2	26.1	4.48	48.9	25.2	5.03	46.2	24.2	5.62
	67	49.7	34.3	3.95	47.4	33.3	4.44	45.0	32.4	4.98	42.5	31.3	5.55
	63††	46.5	33.5	3.92	44.4	32.5	4.41	42.1	31.5	4.94	39.7	30.5	5.50
	62	45.8	41.3	3.91	43.7	40.3	4.40	41.5	39.3	4.93	39.2	38.1	5.49
	57	44.1	44.1	3.89	42.6	42.6	4.39	40.8	40.8	4.92	38.9	38.9	5.49
1500	72	54.3	28.0	4.02	51.8	27.1	4.52	49.4	26.2	5.07	46.6	25.2	5.66
	67	50.4	36.0	3.99	48.0	35.1	4.49	45.5	34.1	5.02	42.9	33.0	5.60
	63††	47.2	35.1	3.96	44.9	34.1	4.45	42.6	33.1	4.98	40.4	32.2	5.56
	62	46.5	43.7	3.96	44.4	42.7	4.44	42.2	41.5	4.97	40.0	40.0	5.54
	57	45.7	45.7	3.95	43.9	43.9	4.44	42.0	42.0	4.97	40.0	40.0	5.55
1650	72	54.9	29.0	4.06	52.2	28.0	4.56	49.8	27.2	5.12	46.9	26.2	5.70
	67	50.9	37.7	4.03	48.5	36.8	4.53	45.9	35.8	5.06	43.3	34.7	5.64
	63††	47.7	36.7	4.00	45.4	35.7	4.49	43.0	34.7	5.02	41.1	33.9	5.62
	62	47.2	45.9	4.00	45.1	44.8	4.49	43.0	43.0	5.02	40.9	40.9	5.60
	57	46.9	46.9	4.00	45.0	45.0	4.49	43.0	43.0	5.02	40.9	40.9	5.60

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Unit Size	Cooling		Indoor Section	Unit Size	Cooling	
		Capacity	Power			Capacity	Power
FK4BNB	006	1.00	1.00	CD5A/CD5BA	048	0.94	1.04
FC4BN(F,B)	048	0.95	1.05	CC5A/CD5A/CD5BC	048	0.93	1.04
	060	0.98	1.07		048	0.94	1.04
FC4BNB	054	1.00	1.04	CC5A/CD5A/CD5BW	060	0.97	1.04
	070	0.99	1.06		060	0.94	1.04
F(A,B)4AN(F,B)	048	0.95	1.05	CD3(A,B)A	048	0.94	1.04
	060	0.98	1.07		060	0.94	1.04
FB4ANB	070	0.99	1.06	CE3AA	048	0.95	1.04
FG3AAA	048	0.94	1.04		060	0.97	1.04
	060	0.96	1.04	CF5AA	048	0.95	1.04

See notes on page 10.

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
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**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
697C060-A Outdoor Section With FK4BNB006 Indoor Section													
1598	72	66.2	32.9	4.93	63.3	31.8	5.47	60.2	30.7	6.06	57.0	29.5	6.69
	67	61.0	41.6	4.87	58.4	40.6	5.40	55.5	39.4	5.98	52.5	38.2	6.60
	63††	57.2	40.7	4.82	54.7	39.6	5.34	52.0	38.4	5.92	49.2	37.2	6.54
	62	56.2	50.2	4.80	53.8	49.0	5.33	51.2	47.8	5.90	48.5	46.5	6.52
	57	54.2	54.2	4.78	52.2	52.2	5.31	50.1	50.1	5.89	47.9	47.9	6.51
1775	72	67.0	34.0	5.00	64.0	32.9	5.54	60.8	31.8	6.12	57.4	30.6	6.76
	67	61.8	43.7	4.93	59.0	42.5	5.46	56.1	41.4	6.04	53.0	40.2	6.67
	63††	57.9	42.6	4.88	55.3	41.4	5.41	52.6	40.3	5.98	49.7	39.0	6.61
	62	57.1	53.0	4.87	54.6	51.8	5.40	51.9	50.4	5.97	49.3	48.9	6.59
	57	55.8	55.8	4.85	53.7	53.7	5.39	51.5	51.5	5.97	49.2	49.2	6.60
1953	72	67.6	35.2	5.06	64.5	34.1	5.60	61.2	33.0	6.19	57.8	31.8	6.82
	67	62.4	45.7	4.99	60.0	44.7	5.54	56.6	43.4	6.11	53.4	42.1	6.74
	63††	58.5	44.5	4.94	55.9	43.3	5.47	53.0	42.1	6.05	50.1	40.8	6.67
	62	57.9	55.6	4.93	55.3	54.3	5.46	52.7	52.6	6.04	50.2	50.2	6.67
	57	57.2	57.2	4.93	55.1	55.1	5.46	52.7	52.7	6.04	50.3	50.3	6.67
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling					
			Capacity	Power				Capacity	Power				
FK4BNB		006	1.00		FG3AAA		060	0.96		1.01			
FC4BN(F,B)		060	0.97		CC5A/CD5A/CD5BA		060	0.94		1.01			
FC4BNB		070	0.99		CC5A/CD5A/CD5BW		060	0.96		1.01			
F(A,B)4AN(F,B)		060	0.97		CD3(A,B)A		060	0.94		1.01			
FB4ANB		070	0.99		CE3AA		060	0.97		1.02			

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation and connected by 25 ft (7.62m) of tubing. If other than 25 ft (7.62m) of tubing is used 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.

†† At TVA rating indoor condition (75° edb/63° ewb). All other indoor air temperatures are at 80° edb.

‡ 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).

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

EWB—Entering Wet Bulb

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																				
		-3			7			17			27			37			47			57		
EDB	CFM	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
		Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡
697C024-A Outdoor Section With FC4BNF030 Indoor Section																						
65	700	9.69	8.92	1.60	12.1	11.1	1.67	14.6	13.3	1.73	17.4	15.4	1.79	20.5	18.6	1.87	24.0	24.0	1.96	28.1	28.1	2.08
	800	9.86	9.08	1.62	12.2	11.3	1.69	14.8	13.5	1.74	17.6	15.6	1.79	20.7	18.9	1.86	24.3	24.3	1.94	28.4	28.4	2.06
	900	10.0	9.21	1.65	12.4	11.4	1.71	14.9	13.6	1.75	17.7	15.8	1.80	20.9	19.0	1.86	24.5	24.5	1.94	28.6	28.6	2.05
70	700	9.45	8.69	1.66	11.9	10.9	1.74	14.4	13.2	1.81	17.2	15.3	1.88	20.3	18.5	1.96	23.7	23.7	2.05	27.8	27.8	2.18
	800	9.61	8.84	1.68	12.1	11.1	1.75	14.6	13.3	1.81	17.4	15.4	1.87	20.5	18.7	1.94	24.0	24.0	2.03	28.1	28.1	2.15
	900	9.78	8.99	1.71	12.2	11.2	1.77	14.8	13.5	1.83	17.5	15.6	1.88	20.7	18.8	1.95	24.2	24.2	2.03	28.3	28.3	2.14
75	700	9.17	8.44	1.72	11.7	10.8	1.81	14.3	13.0	1.88	17.0	15.1	1.96	20.1	18.3	2.05	23.5	23.5	2.15	27.5	27.5	2.29
	800	9.34	8.60	1.74	11.9	10.9	1.82	14.4	13.2	1.89	17.2	15.3	1.96	20.3	18.5	2.04	23.8	23.8	2.13	27.8	27.8	2.26
	900	9.50	8.74	1.76	12.0	11.1	1.84	14.6	13.3	1.90	17.4	15.4	1.96	20.5	18.6	2.03	24.0	24.0	2.12	28.0	28.0	2.24
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size	Heating				Indoor Section		Unit Size	Heating												
			Capacity		Power					Capacity		Power										
FC4BNF		024	1.00				CC5A/CD5A/CD5BA		024	1.00												
		030	1.00						030	1.00												
		033	1.00						036	1.00												
F(A,B)4ANF		024	1.00				CC5A/CD5A/CD5BW		030	1.00												
		030	1.00						036	1.00												
FD3ANA		024	1.00				CD3(A,B)A		024	1.00												
		030	1.00						030	1.00												
FF1(A,B)NA		024	1.00						CE3AA		036	1.00										
		030	1.00				024	1.00														
FG3AAA		024	1.00				CF5AA		030	1.00												
FK4BNF		001	0.99						024	1.00												
		002	1.00						—	—												
		003	0.98				—	—														
697C030-A, B Outdoor Section With FC4BNF036 Indoor Section																						
65	850	12.9	11.9	2.08	15.5	14.2	2.17	18.5	16.8	2.27	21.9	19.4	2.38	25.7	23.4	2.52	30.0	26.9	34.9	34.9	2.91	
	950	13.1	12.0	2.11	15.7	14.4	2.19	18.7	17.0	2.29	22.1	19.6	2.39	26.0	23.7	2.53	30.4	26.9	35.2	35.2	2.91	
	1050	13.2	12.2	2.14	15.9	14.6	2.22	18.9	17.2	2.31	22.3	19.8	2.41	26.2	23.9	2.54	30.6	27.1	35.5	35.5	2.91	
70	850	12.7	11.7	2.16	15.4	14.1	2.26	18.3	16.7	2.36	21.6	19.2	2.48	25.4	23.1	2.62	29.7	29.7	2.80	34.5	34.5	3.03
	950	12.9	11.9	2.19	15.5	14.3	2.28	18.5	16.9	2.38	21.9	19.4	2.49	25.7	23.4	2.63	30.0	28.0	34.8	34.8	3.02	
	1050	13.1	12.0	2.22	15.7	14.4	2.31	18.7	17.0	2.40	22.1	19.6	2.51	25.9	23.6	2.64	30.3	2.81	35.1	35.1	3.02	
75	850	12.5	11.5	2.24	15.3	14.0	2.35	18.1	16.5	2.46	21.4	19.0	2.58	25.1	22.9	2.74	29.4	29.4	2.92	34.1	34.1	3.15
	950	12.7	11.7	2.27	15.4	14.2	2.37	18.3	16.7	2.47	21.6	19.2	2.59	25.4	23.1	2.73	29.7	29.7	2.91	34.4	34.4	3.14
	1050	12.9	11.9	2.30	15.6	14.3	2.40	18.5	16.9	2.50	21.8	19.4	2.61	25.6	23.3	2.74	29.9	29.9	2.92	34.7	34.7	3.14
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size	Heating				Indoor Section		Unit Size	Heating												
			Capacity		Power					Capacity		Power										
FC4BNF		030	1.00				CC5A/CD5A/CD5BA		030	1.00												
		033	1.00						036	1.00												
		036	1.00						030	1.00												
F(A,B)4ANF		030	1.00				CD5A/CD5BW		036	1.00												
		036	1.00						030	1.00												
FD3ANA		030	1.00				CD3(A,B)A		036	1.00												
FF1(A,B)NA		030	1.00						030	1.00												
FG3AAA		036	1.00				CE3AA		036	1.00												
FK4BNF		001	1.00						036	1.00												
		002	1.00				CF5AA	—	—													
		003	0.99					—	—													
		004	1.00					—	—													

See notes on page 14.

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																				
		-3			7			17			27			37			47			57		
EDB	CFM	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
		Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡
697C036-A, B Outdoor Section With FC4BN(F,B)042 Indoor Section																						
65	1100	16.0	14.7	2.43	19.3	17.7	2.53	22.8	20.8	2.64	26.7	23.7	2.74	31.2	28.4	2.87	36.1	36.1	3.03	41.8	41.8	3.23
	1200	16.2	14.9	2.46	19.4	17.9	2.55	23.0	21.0	2.65	26.9	23.9	2.75	31.4	28.6	2.87	36.4	36.4	3.03	42.1	42.1	3.22
	1300	16.4	15.1	2.48	19.7	18.1	2.58	23.2	21.1	2.66	27.1	24.1	2.76	31.6	28.7	2.88	36.6	36.6	3.03	42.4	42.4	3.22
70	1100	15.7	14.5	2.52	19.1	17.5	2.64	22.6	20.6	2.75	26.5	23.5	2.87	30.9	28.1	3.00	35.7	35.7	3.17	41.3	41.3	3.37
	1200	15.9	14.6	2.55	19.2	17.7	2.66	22.8	20.8	2.76	26.7	23.7	2.87	31.1	28.3	3.00	36.0	36.0	3.16	41.6	41.6	3.36
	1300	16.1	14.8	2.57	19.4	17.8	2.68	23.0	20.9	2.78	26.9	23.9	2.88	31.3	28.5	3.01	36.2	36.2	3.16	41.9	41.9	3.35
75	1100	15.4	14.1	2.62	18.9	17.3	2.74	22.4	20.4	2.87	26.2	23.3	2.99	30.6	27.8	3.14	35.4	35.4	3.31	40.9	40.9	3.52
	1200	15.6	14.3	2.64	19.0	17.5	2.76	22.6	20.6	2.88	26.4	23.5	3.00	30.8	28.0	3.14	35.6	35.6	3.30	41.2	41.2	3.50
	1300	15.7	14.5	2.67	19.2	17.6	2.78	22.7	20.7	2.89	26.6	23.6	3.01	31.0	28.2	3.14	35.9	35.9	3.30	41.5	41.5	3.50
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size		Heating		Indoor Section		Unit Size		Heating												
				Capacity	Power					Capacity	Power											
FC4BN(F,B)		042		1.00		1.00		CC5A/CD5A/CD5BA		036		1.00		1.01								
FC4BNF		033		1.00		1.00		042		1.00		1.01										
		036		1.00		1.03				1.01												
F(A,B)4ANF		036		1.00		1.03		CC5A/CD5A/CD5BW		042		1.00		1.02								
F(A,B)4AN(F,B)		042		1.00		1.00		043		1.00		1.01										
FG3AAA		036		1.00		1.03				CD3(A,B)A		036		1.00		1.01						
FK4BNF		001		1.00		1.00		042		1.00		1.01										
		002		1.00		0.97				CE3AA		036		1.00		1.02						
		003		0.99		0.94		042		1.00		0.99										
		004		1.00		0.92				CF5AA		036		1.00		1.01						
CD5A/CD5BW		036		1.00		1.01		—		—		—										
697C042-A Outdoor Section With FK4BNF005 Indoor Section																						
65	1202	19.1	17.6	2.67	22.6	20.8	2.76	26.3	24.0	2.85	30.3	26.9	2.95	34.7	31.6	3.08	39.7	39.7	3.23	45.2	45.2	3.40
	1335	19.3	17.8	2.68	22.8	20.9	2.76	26.5	24.1	2.84	30.5	27.1	2.93	35.0	31.9	3.05	40.0	40.0	3.20	44.9	44.9	3.32
	1469	19.5	17.9	2.69	22.9	21.1	2.77	26.7	24.3	2.84	30.7	27.3	2.93	35.2	32.1	3.04	40.2	40.2	3.18	45.1	45.1	3.29
70	1202	18.8	17.3	2.77	22.3	20.5	2.88	26.0	23.7	2.98	29.9	26.6	3.09	34.3	31.2	3.22	39.2	39.2	3.38	44.7	44.7	3.58
	1335	18.9	17.4	2.78	22.5	20.7	2.88	26.2	23.9	2.97	30.2	26.8	3.07	34.6	31.5	3.20	39.5	39.5	3.34	45.0	45.0	3.51
	1469	19.1	17.6	2.80	22.7	20.8	2.89	26.4	24.0	2.97	30.4	27.0	3.07	34.8	31.7	3.18	39.8	39.8	3.33	45.0	45.0	3.46
75	1202	18.3	16.8	2.88	22.0	20.3	3.01	25.7	23.4	3.12	29.6	26.3	3.24	33.9	30.9	3.37	38.7	38.7	3.54	44.1	44.1	3.75
	1335	18.5	17.0	2.89	22.2	20.4	3.01	25.9	23.6	3.11	29.8	26.5	3.22	34.2	31.1	3.34	39.0	39.0	3.50	44.5	44.5	3.68
	1469	18.7	17.2	2.91	22.4	20.6	3.02	26.1	23.8	3.11	30.0	26.7	3.21	34.4	31.3	3.33	39.3	39.3	3.48	44.6	44.6	3.63
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size		Heating		Indoor Section		Unit Size		Heating												
				Capacity	Power					Capacity	Power											
FK4BNF		005		1.00		1.00		CC5A/CD5A/CD5BW		042		0.97		1.11								
FK4BNB		003		0.97		1.05		043		0.99		1.12										
FC4BNF		038		1.01		1.06				0.99		1.09										
FC4BN(F,B)		042		0.99		1.11		CC5A/CD5A/CD5BC		048		0.97		1.13								
		048		1.00		1.08		CD5A/CD5BA		048		0.99		1.09								
F(A,B)4AN(F,B)		042		0.99		1.11		CD3(A,B)A		042		0.99		1.12								
		048		1.00		1.08		048		0.99		1.09										
FG3AAA		048		0.99		1.09				CE3AA		042		0.99		1.09						
CC5A/CD5A/CD5BA		042		0.99		1.12		048		0.99		1.09										
		043		0.99		1.12				CF5AA		048		0.99		1.10						

See notes on page 14.

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																				
		-3			7			17			27			37			47			57		
EDB	CFM	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
		Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡
697C042-B Outdoor Section With FK4BNB005 Indoor Section																						
65	1202	17.7	16.3	2.53	21.4	19.7	2.63	25.5	23.2	2.72	30.0	26.6	2.82	35.2	32.1	2.95	41.2	41.2	3.10	48.1	48.1	3.28
	1335	17.9	16.4	2.54	21.5	19.8	2.63	25.7	23.4	2.71	30.2	26.8	2.81	35.5	32.3	2.92	41.5	41.5	3.07	47.9	47.9	3.20
	1469	18.0	16.6	2.56	21.7	19.9	2.63	25.8	23.6	2.72	30.4	27.0	2.80	35.7	32.5	2.91	41.8	41.8	3.05	47.7	47.7	3.16
70	1202	17.3	16.0	2.64	21.1	19.4	2.74	25.2	23.0	2.85	29.6	26.3	2.95	34.8	31.7	3.09	40.7	40.7	3.25	47.5	47.5	3.45
	1335	17.5	16.1	2.65	21.3	19.6	2.75	25.4	23.2	2.84	29.9	26.5	2.94	35.1	31.9	3.06	41.0	41.0	3.21	47.8	47.8	3.38
	1469	17.7	16.3	2.66	21.5	19.7	2.75	25.6	23.3	2.84	30.0	26.7	2.93	35.3	32.1	3.05	41.3	41.3	3.19	47.9	47.9	3.33
75	1202	16.9	15.6	2.74	20.9	19.2	2.86	24.9	22.7	2.98	29.3	26.0	3.09	34.4	31.3	3.23	40.2	40.2	3.40	46.9	46.9	3.61
	1335	17.1	15.7	2.75	21.0	19.3	2.87	25.1	22.9	2.97	29.5	26.2	3.08	34.7	31.5	3.21	40.5	40.5	3.36	47.3	47.3	3.55
	1469	17.3	15.9	2.77	21.2	19.5	2.87	25.3	23.0	2.97	29.7	26.4	3.07	34.9	31.8	3.19	40.8	40.8	3.34	47.4	47.4	3.49
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size		Heating				Indoor Section		Unit Size		Heating										
				Capacity		Power						Capacity		Power								
FK4BNB		005		1.00		1.00		CC5A/CD5A/CD5BW		042		1.00		1.14								
FK4BNF		003		1.00		1.09				043		1.00		1.13								
FC4BNF		038		1.00		1.05				048		1.00		1.11								
FC4BN(F,B)		042		1.00		1.13		CC5A/CD5A/CD5BC		048		1.00		1.16								
		048		1.00		1.08		CD5A/CD5BA		048		1.00		1.11								
F(A,B)4AN(F,B)		042		1.00		1.13		CD3(A,B)A		042		1.00		1.13								
		048		1.00		1.08				048		1.00		1.11								
FG3AAA		048		1.00		1.11		CE3AA		042		1.00		1.11								
CC5A/CD5A/CD5BA		042		1.00		1.13				048		1.00		1.10								
		043		1.00		1.13		CF5AA		048		1.00		1.12								
697C048-A Outdoor Section With FK4BNB006 Indoor Section																						
65	1350	21.2	19.5	3.02	25.5	23.4	3.16	30.3	27.6	3.30	36.1	32.9	3.48	42.0	38.2	3.65	49.2	49.2	3.89	57.5	57.5	4.17
	1500	21.4	19.7	3.02	25.7	23.6	3.15	30.5	27.8	3.27	36.4	33.2	3.43	42.3	38.5	3.60	49.6	49.6	3.82	57.7	57.7	4.05
	1650	21.5	19.8	3.03	25.8	23.7	3.14	30.7	28.0	3.26	36.7	33.4	3.41	42.6	38.8	3.56	49.9	49.9	3.78	57.2	57.2	3.96
70	1350	20.9	19.2	3.17	25.3	23.2	3.33	30.0	27.4	3.48	35.8	32.6	3.67	41.5	37.8	3.86	48.6	48.6	4.11	56.9	56.9	4.43
	1500	21.1	19.4	3.17	25.4	23.4	3.32	30.2	27.5	3.46	36.0	32.8	3.63	41.9	38.1	3.80	49.0	49.0	4.03	57.2	57.2	4.30
	1650	21.2	19.5	3.18	25.6	23.5	3.31	30.4	27.7	3.44	36.3	33.0	3.60	42.1	38.4	3.76	49.3	49.3	3.99	56.9	56.9	4.19
75	1350	20.4	18.8	3.32	25.0	23.0	3.50	29.7	27.1	3.67	35.4	32.3	3.87	41.1	37.4	4.08	48.0	48.0	4.34	56.2	56.2	4.67
	1500	20.6	19.0	3.33	25.2	23.2	3.49	29.9	27.3	3.65	35.7	32.5	3.83	41.4	37.7	4.01	48.4	48.4	4.26	56.7	56.7	4.57
	1650	20.8	19.2	3.33	25.4	23.3	3.49	30.1	27.5	3.63	35.9	32.7	3.80	41.7	37.9	3.97	48.8	48.8	4.20	57.0	57.0	4.46
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size		Heating				Indoor Section		Unit Size		Heating										
				Capacity		Power						Capacity		Power								
FK4BNB		006		1.00		1.00		CD5A/CD5BA		048		0.99		1.16								
FC4BN(F,B)		048		1.01		1.14		CC5A/CD5A/CD5BC		048		0.98		1.21								
		060		1.02		1.12		CC5A/CD5A/CD5BW		048		0.99		1.16								
FC4BNB		054		1.02		1.05				060		1.00		1.12								
		070		1.02		1.07		CC5A/CD5A/CD5BA		060		0.99		1.17								
F(A,B)4AN(F,B)		048		1.01		1.14		CD3(A,B)A		048		0.99		1.16								
		060		1.02		1.12				060		0.99		1.17								
FB4ANB		070		1.02		1.07		CE3AA		048		1.00		1.16								
FG3AAA		048		1.00		1.16				060		1.00		1.12								
		060		1.00		1.14		CF5AA		048		0.99		1.17								

See notes on page 14.

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																				
		-3			7			17			27			37			47			57		
EDB	CFM	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
		Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡	Total	Integ†	Kw‡
697C060-A Outdoor Section With FK4BNB006 Indoor Section																						
65	1598	28.2	25.9	3.90	33.3	30.6	4.09	39.1	35.6	4.31	45.5	40.4	4.55	52.8	48.1	4.85	61.2	61.2	5.23	70.9	70.9	5.74
	1775	28.4	26.1	3.91	33.6	30.9	4.09	39.4	35.9	4.29	45.9	40.7	4.52	53.3	48.5	4.81	62.7	62.7	5.18	71.7	71.7	5.68
	1953	28.6	26.3	3.93	33.8	31.1	4.10	39.6	36.1	4.29	46.2	41.0	4.50	53.7	48.8	4.78	62.1	62.1	5.15	71.7	71.7	5.56
70	1598	27.9	25.6	4.08	33.0	30.3	4.29	38.7	35.3	4.52	45.1	40.0	4.78	52.3	47.6	5.09	60.5	60.5	5.48	70.0	70.0	6.00
	1775	28.1	25.9	4.09	33.3	30.6	4.29	39.0	35.6	4.50	45.4	40.3	4.74	52.7	48.0	5.04	61.0	61.0	5.42	70.6	70.6	5.92
	1953	28.3	26.1	4.11	33.5	30.8	4.29	39.3	35.8	4.49	45.7	40.6	4.73	53.1	48.3	5.01	61.4	61.4	5.38	71.1	71.1	5.88
75	1598	27.5	25.3	4.25	32.7	30.0	4.49	38.3	35.0	4.74	44.6	39.6	5.01	51.7	47.0	5.34	59.8	59.8	5.74	69.2	69.2	6.27
	1775	27.8	25.6	4.26	33.0	30.3	4.49	38.6	35.2	4.72	44.9	39.9	4.97	52.1	47.4	5.28	60.3	60.3	5.67	69.8	69.8	6.18
	1953	28.0	25.8	4.28	33.2	30.5	4.49	38.9	35.5	4.71	45.3	40.2	4.95	52.5	47.8	5.25	60.7	60.7	5.63	70.3	70.3	6.14
Multipliers for Determining the Performance With Other Indoor Sections																						
Indoor Section		Unit Size		Heating		Indoor Section		Unit Size		Heating												
				Capacity	Power					Capacity	Power											
FK4BNB		006		1.00		1.00		FG3AAA		060		1.00		1.12								
FC4BN(F,B)		060		1.00		1.08		CC5A/CD5A/CD5BA		060		1.00		1.17								
FC4BNB		070		1.00		1.02		CC5A/CD5A/CD5BW		060		1.00		1.10								
F(A,B)4AN(F,B)		060		1.00		1.08		CD3(A,B)A		060		1.00		1.17								
FB4ANB		070		1.00		1.02		CE3AA		060		1.00		1.10								

† The Btuh heating capacity values shown are net “integrated” values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.

‡ The kw values include the compressor, outdoor fan motor, and indoor blower motor. The kw from supplement heaters should be added to these values to obtain total system kilowatts.

EDB—Entering Dry Bulb

- Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
- Minimum outdoor operating air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
- Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
- Minimum outdoor operating air temperature for heating mode is -30°F (-34.4°C).
- Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
- For reliable operation, unit should be level in all horizontal planes.
- 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).
- For interconnecting refrigerant tube lengths greater than 50 ft, consult Long-Line Application Guideline available from equipment distributor.
- 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.
- Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
- Mixmatches of indoor coil capacity more than 1 size larger than outdoor unit capacity may result in inadequate indoor comfort.

1. Support Feet

Four stick-on plastic feet which raise the unit 4 in. 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.

2. Snow Rack

Coated wire rack which supports unit 18 in. above mounting pad to allow for drainage from unit base.

SUGGESTED USE: Heat pump installations in heavy snowfall areas.
Heat pump installations in snowdrift locations.
Heat pump installations in areas of prolonged subfreezing temperatures.
All commercial installations.

3. Interface Control

An electric control for controlling a heat pump and gas or oil furnace system for maximum energy savings. It allows heat pump to operate down to a predetermined economic balance point temperature, then switches to allow furnace operation only below that temperature. Requires outdoor thermostat (Item 5) to be adjusted for economic balance point temperature.

SUGGESTED USE: Required for all heat pump and gas- or oil-fired furnace combination systems.

4. Service Alarm

A current-sensing lockout relay which provides immediate notification that compressor is not operating during a call for heating or cooling. Used with proper room thermostat, the thermostat light is turned on signifying service is required. This can minimize electrical cost increase due to operation of supplemental heaters only.

SUGGESTED USE: As a feature to notify owner immediately when the system is not operating most efficiently.

5. Outdoor Thermostat

A SPDT temperature actuated switch which turns on supplemental electric heaters when outdoor air temperature drops below set point.

SUGGESTED USE: Heat pump installations with multiple-stage supplemental heaters.

6. Secondary Outdoor Thermostat

A SPDT temperature actuated switch which turns on a third stage of supplemental electric heaters when outdoor air temperature drops below the second-stage set point.

SUGGESTED USE: Heat pump installations where 3-stage operation of supplemental heaters is desired.

7. Filter Drier—Bi-flow

A device for removing contaminants from refrigerant circulating in a heat pump system; 2-direction flow for heat pumps.

SUGGESTED USE: Split-system heat pumps.

8. Thermostatic Expansion Valve (TXV)

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.

SUGGESTED USE: Required for improved system performance. (Refer to ARI Unitary Directory.)

9. Evaporator Freeze Thermostat

A SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.

SUGGESTED USE: With low-ambient controller.

10. Isolation Relay

A SPDT relay which switches the low-ambient controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.

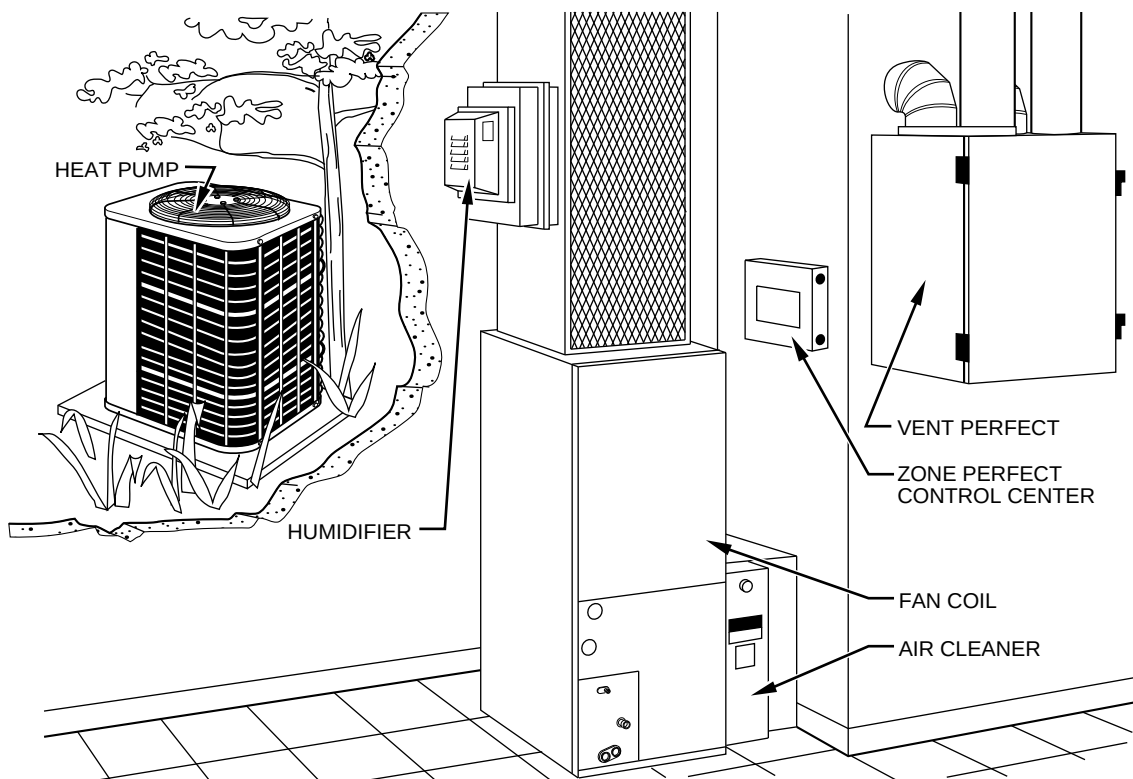
SUGGESTED USE: All heat pumps where low-ambient controller has been added.

11. Liquid Solenoid Valve (LSV)

An electrically operated shut-off valve to be installed at the outdoor unit 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.

SUGGESTED USE: In certain long-line applications. (Refer to Long-Line Application Guideline.)

MATCHED SYSTEM



A93475



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 697C.24.1P