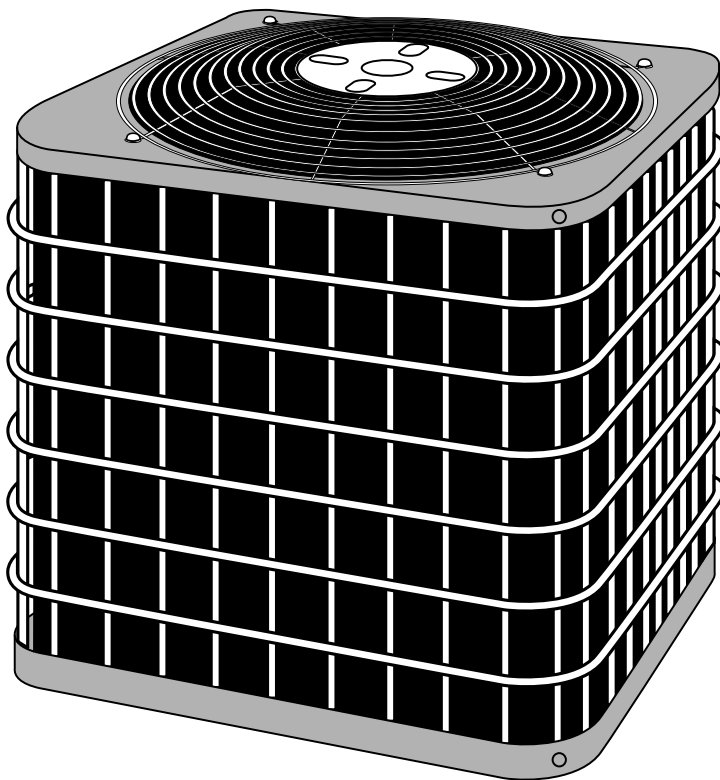




Product Data

38CKC 50 Hz Air Conditioner

38CKC Sizes 018 thru 060



Model 38CKC 50 Hertz Energy-Efficient Air Conditioner incorporates innovative technology to provide reliable summer cooling performance. Built into these units are the features most desired by customers today, including EER ratings of up to 10.0 when used with components designated by manufacturer.

FEATURES/BENEFITS

Electrical Range — Single phase units are available in 018, 024, and 036 sizes in 220-240v. Three-phase units are available in 036, 048, and 060 sizes in 400v.

Wide Range of Sizes — The 38CKC is available in nominal sizes 018, 024, 036, 048, and 060 to meet the needs of residential and light commercial applications.

Weather Armor II Cabinet — The steel is protected with a heavy galvanize coating, and treated with a layer of zinc phosphate. A 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.

Totally Enclosed Fan Motor — Means greater reliability under adverse weather conditions and dependable performance for many years. Permanent-split-capacitor-type motors provide more economical operation.

Unit Design — Copper tube, enhanced sine wave 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 drain pan allows for easy removal of water, dirt, and leaves.

Application Versatility — The unit 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.

External Service Valves — Both service valves are brass, front seating type. The 38CKC has sweat field

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 control box. Removal of top allows access to fan motor, compressor, and coil.

Pressure Switches — All units are equipped with high and low pressure switches.

Additional Compressor

Protection — Each compressor is protected with internal temperature- and current-sensitive overloads. The 048 and 060 sizes have a short cycle protector standard.

Safety — All units are designed and manufactured in accordance with Underwriters Laboratories (UL 1995) safety standard for heating and cooling equipment.

Sound Hood — 38CKC Sizes 036 through 060 have a compressor sound hood for noise attenuation.

Quality Assurance

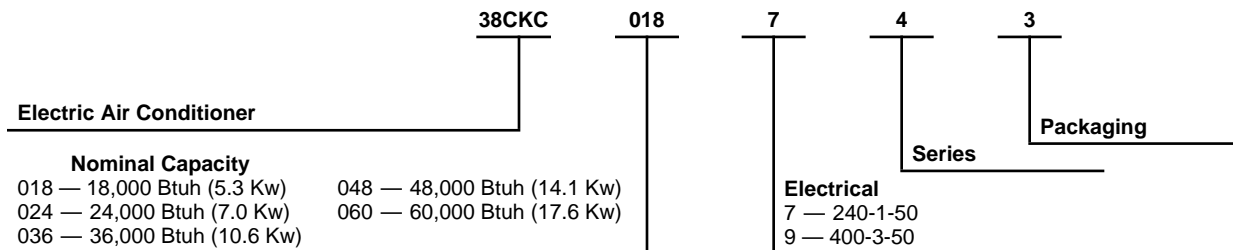


APPROVALS
ISO 9001
EN 29001
BS 5750 PART 1
ANSI/ASQC Q91

CERTIFICATE NO. FM 28768

REGISTERED QUALITY SYSTEM

Model number nomenclature



The data in this publication is displayed for all series, however, every series may not be available from manufacturer.

Physical data

UNIT SIZE / SERIES	018-74	024-74	036-74, 94	048-94	060-94
OPERATING WT (Lb/Kg)	122 / 55.3	131 / 59.4	148 / 67.1	209 / 94.8	220 / 99.8
COMPRESSOR Manufacturer & Type	Copeland & Recip	Copeland & Recip	Copeland & Recip	Copeland & Scroll	Copeland & Scroll
REFRIGERANT Control Charge (Lb/Kg) @ 15 ft / 4.6m	3.76 / 1.71	3.4 / 1.5	22 AccuRater® (Bypass Type) 4.8 / 2.2	6.25/2.8	9.75/4.4
COND FAN Air Discharge Air Qty (CFM / L/S)	1550 / 724	2600 / 1214	Propeller Type, Direct Drive Vertical 3300 / 1541		
COND COIL Face Area (Sq ft / m ²)	6.2 / 0.574	7.5 / 0.697	10.8 / 1.003	14.9 / 1.384	22.4 / 2.081
VALVE CONNECT. (In./mm ID) Vapor Liquid	5/8 / 15.875		Sweat 3/4 / 19.05 3/8 / 9.525	7/8 / 22.225	
REFRIG TUBES* (In./mm OD) Vapor Liquid	5/8 / 15.875		3/4 / 19.05 3/8 / 9.525	7/8 / 22.225	1-1/8 / 28.575

* Tube sizes are for runs up to 50 ft (15.24m). For tube set over 50 ft (15.24m), consult Residential Split-System Long-Line Application Guideline.
NOTE: See unit Installation Instructions for proper installation.

ACCURATER® PISTON CHART

UNIT SIZE	PISTON IDENTIFICATION NO.*
018-74	57
024-74	63
036-74, 94	73
048-94	90
060-94	101

* 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.

Accessories

PART NO.	DESCRIPTION
KSAHS0301AAA	Start Assist-Capacitor/Relay — Sizes 018; 024; 036 (74)
KAACS0101PTC	Start Assist — PTC — Sizes 018; 024
KAACS0201PTC	Start Assist — PTC — Sizes 036 (74)
KAALS0101LLS*	Liquid Solenoid Valve — All Sizes
KSACY0101AAA	Cycle Protector — Sizes 018; 024; 036 (74)
Standard	Cycle Protector — Sizes 036(94); 048; 060
KAAWS0201AAA	Winter Start Control — All Sizes
KAFT0101AAA	Evaporator Freeze Thermostat — All Sizes
KAATD0101TDR	Time-Delay Relay — All Sizes
KSASF0101AAA	Support Feet — All Sizes
KAACH1001AAA	Crankcase Heater — Sizes 018; 024; 036 (74)
KAACF0701SML	Coastal Filter — Size 018
KAACF1001MED	Coastal Filter — Sizes 024; 036
KAACF1101LRG	Coastal Filter — Sizes 048; 060
KAATX0201RPB	Thermostatic Expansion Valve (RPB) — Size 018
KAATX0301RPB	Thermostatic Expansion Valve (RPB) — Size 024
KAATX0501RPB	Thermostatic Expansion Valve (RPB) — Size 036
KAATX0601RPB	Thermostatic Expansion Valve (RPB) — Size 048
KAATX0701RPB	Thermostatic Expansion Valve (RPB) — Size 060
KAATX0601HSO*	Thermostatic Expansion Valve (Hard Shutoff) — Sizes 018; 024; 036
KAATX0701HSO*	Thermostatic Expansion Valve (Hard Shutoff) — Sizes 048; 060
P251-0083 (RCD)	Low-Ambient Controller — 024-060
KSALA0201R22	Low-Ambient Kit (R22) — All Sizes
32LT66004 (RCD)	MotorMaster® Control — 024, 036, (74)
32LT66005 (RCD)	MotorMaster® Control — 036, (94); 048; 060
P504-8083S	Filter Drier — 018-036
P504-8163S	Filter Drier — 048; 060
KSADG0101MIC	Discharge Grille — Size 018
KSADG0201SML	Discharge Grille — Sizes 024; 036
KSADG0301MED	Discharge Grille — Sizes 048; 060

* Do not use hard shutoff TXV with liquid solenoid valve.

N/A — Not Applicable

THERMOSTAT	DESCRIPTION
TSTATCCNAC01-B	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCPAC01-B	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCBAC01	Builder's Thermostat, Manual Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCPRH01-B	Thermostat, Programmable/Non-Programmable Thermostat with Humidity Control
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack
TSTATXXSEN01-B	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXBP01	Backplate for Programmable Thermostat
TSTATXXBBP01	Backplate for Builder's Thermostat

Accessory usage guideline

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATIONS (Below 55°F) (12.8°C)	REQUIRED FOR LONG-LINE APPLICATIONS* (Over 50 Ft) (15.24m)	REQUIRED FOR SEA COAST APPLICATIONS* (Within 2 Mi) (3.2km)
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Winter Start Control	Yes†	No	No
Accumulator	No	No	No
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Low Ambient Controller or MotorMaster® Control	Yes	No	No
Wind Baffle	See Low-Ambient Instructions	No	No
Coastal Filter	No	No	Yes
Support Feet	Recommended	No	Recommended
Liquid-Line Solenoid Valve or Hard Shutoff TXV	No	See Long-Line Application Guideline	No

* For tubing line sets between 50 (15.24m) and 175 ft (53.34m), refer to Residential Split System Long-Line Application Guideline.

† Only when low-pressure switch is used.

Accessory description and usage (Listed alphabetically)

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. 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 (15.24m).
Installations where outdoor design temperature exceeds 105°F (40.6°C).
Replacement installations with hard shutoff expansion valve on indoor coil.

3. Compressor Start Assist — PTC Type

Solid-state electrical device which gives a “soft” boost to the compressor at each start-up.
SUGGESTED USE: Installations with marginal power supply.
Replacement installations with rapid pressure balance (RPB) expansion valve on indoor coil.

4. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes chance of refrigerant slugging. May or may not include a thermostat control.
SUGGESTED USE: When interconnecting tube length exceeds 50 ft (15.24m).
When unit will be operated below 55°F (12.8°C) outdoor air temperature. (Use with low-ambient controller.)
All commercial installations.

5. Cycle Protector

Solid-state timing device which prevents compressor rapid recycling. Control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including normal room thermostat cycling.
SUGGESTED USE: Installations in areas where power interruptions are frequent.
Where user is likely to “play” with the room thermostat.
All commercial installations.
Installations where interconnecting tube length exceeds 50 ft (15.24m).
High-rise applications.

6. Evaporator Freeze Thermostat

A SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.
SUGGESTED USE: All units where winter start control has been added.

7. Liquid Solenoid Valve (LSV)

An electrically operated shutoff valve to be installed at the outdoor or indoor unit (depending on tubing configuration) 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 Residential Split System Long-Line Application Guideline.

8. Low-Ambient Controller

Head pressure controller is 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 motor in order to maintain condensing temperature within normal operating limits (approximately 100°F [37.8°C] high and 60°F [15.6°C] low). The controller will maintain working head pressure a low-ambient temperatures down to 0°F (-17.8°C) when properly installed.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).

9. MotorMaster® Control

A fan speed control device activated by a temperature sensor. Designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at 100°F±10°F (37.8°C ± -12.2°C).
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
All commercial installations

10. Support Feet

Four stick-on plastic feet which raise the unit 4 in. (10.16cm) 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

Accessory description and usage (Listed alphabetically) continued

11. 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. Both hard shutoff and RPB 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.

12. 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.

13. 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 controller has been added.

Electrical data

UNIT SIZE-SERIES	V/PH	OPER VOLTS*		COMPRESSOR		FAN FLA	MCA	MIN WIRE SIZE 60°C/75°C**	MAX LENGTH (Ft) 60°C/75°C‡	MAX LENGTH (m) 60°C/75°C‡	MAX FUSE† OR CKT BKR AMPS
		Max	Min	LRA	RLA						
018-74	230-1	253	207	55.0	9.9	0.8	13.2	14	59/56	18.0/17.1	20
024-74				68.0	11.6	0.65	15.2	14	53/50	16.2/15.2	25
036-74				94.0	17.7	0.65	22.8	12	55/52	16.8/15.8	35
036-94	400-3	440	360	42.0	6.4	0.4	8.4	14	202/192	61.8/58.7	15
048-94				63.0	7.95	0.7	10.7	14	165/157	50.3/47.9	15
060-94				74.0	8.97	0.7	11.9	14	152/144	46.4/44	20

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

† Time-delay fuse.

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

** 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 336-26. 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).

FLA — Full Load Amps

LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

NOTES: 1. Control circuit is 24v on all units and requires external power source.
2. Copper wire must be used from service disconnect to unit.
3. All motors/compressors contain internal overload protection.

Combination ratings

OUTDOOR UNIT SIZE-SERIES	INDOOR UNIT	NOMINAL AIRFLOW		COOLING CAP @ 95°F (35°C)				COOLING CAP @ 115°F (46°C)		
				Rated Capacity		Power KW	Rated EER	Rated Capacity		Power KW
		CFM	L/S	BTUH	KW			BTUH	KW	
018-74	F(A,B)4ASF018*	600	280	18,000	5.3	1.96	9.80	15,700	4.6	2.14
	F(A,B)4ASF024	600	280	19,000	5.6	2.00	10.00	16,800	4.9	2.19
	FG3ASA024	600	280	18,500	5.4	2.04	9.80	16,276	4.8	2.22
024-74	F(A,B)4ASF024*	800	380	23,000	6.7	2.75	9.00	19,900	5.8	3.03
	F(A,B)4ASF030	800	380	23,600	6.9	2.74	9.10	19,948	5.8	3.02
	FG3ASA024	800	380	22,000	6.4	2.79	8.70	19,271	5.6	3.07
036-74, 94	F(A,B)4ASF036*	1200	550	35,000	10.3	3.91	8.50	30,500	8.9	4.32
	F(A,B)4AS(F,B)042	1200	550	35,500	10.4	3.94	8.50	31,020	9.1	4.35
	FG3ASA036	1200	550	34,000	10.0	3.92	8.00	29,521	8.6	4.33
048-94	F(A,B)4AS(F,B)048*	1600	750	46,500	13.6	5.07	9.00	41,500	12.2	5.50
	F(A,B)4AS(F,B)060	1600	750	47,500	13.9	5.12	9.30	42,794	12.5	5.56
	FG3ASA048	1600	750	45,500	13.3	5.06	9.00	40,475	11.9	5.49
	FG3ASA060	1600	750	46,500	13.6	5.11	9.00	41,525	12.2	5.54
060-94	F(A,B)4AS(F,B)060*	1850	850	57,000	16.7	6.30	9.00	51,200	15.0	7.50
	FB4ASB070	1850	850	58,000	14.1	6.28	9.00	52,183	15.3	7.47
	FG3ASA060	1850	850	56,000	16.4	6.30	9.00	50,365	14.8	7.49

* Tested combination.

- 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).

Sound power

UNIT SIZE	SOUND RATING (dBA)	A-WEIGHTED SOUND POWER LEVELS WITHIN OCTAVE BAND SHOWN						
		125	250	500	1000	2000	4000	8000
018-74	77	59.0	66.0	69.0	71.5	70.0	65.0	58.5
024-74	77	52.0	65.5	67.0	69.0	68.0	68.5	63.0
036-74	75	54.0	65.0	66.5	69.5	67.0	66.5	60.5
036-94	78	59.0	68.0	68.0	72.5	73.0	71.0	67.0
048-94	77	52.0	64.0	69.5	70.5	68.5	66.5	63.0
060-94	76	54.5	61.0	66.5	69.5	68.5	68.0	63.5

Detailed cooling capacities* (S.I.)

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °C																				
		28			32			36			40			44			48			52		
		L/S	(C) EWB	Capacity† (KW)		Sys. Power KW**	Capacity† (KW)		Sys. Power KW**	Capacity† (KW)		Sys. Power KW**	Capacity† (KW)		Sys. Power KW**	Capacity† (KW)		Sys. Power KW**	Capacity† (KW)		Sys. Power KW**	
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†					
38CKC018-74 Outdoor Section With F(A,B)4ASF018 Indoor Section																						
240	22	6.05	3.00	1.84	5.82	2.91	1.92	5.58	2.81	1.99	5.33	2.72	2.06	5.09	2.63	2.13	4.83	2.53	2.20	4.58	2.44	2.27
	20	5.64	3.48	1.80	5.42	3.39	1.87	5.19	3.30	1.94	4.96	3.20	2.01	4.72	3.11	2.08	4.48	3.01	2.14	4.23	2.91	2.20
	18	5.25	3.96	1.76	5.04	3.87	1.82	4.82	3.77	1.89	4.61	3.67	1.96	4.38	3.57	2.02	4.15	3.46	2.08	3.90	3.35	2.14
	16	4.92	4.38	1.72	4.73	4.27	1.79	4.53	4.15	1.85	4.33	4.03	1.91	4.13	3.91	1.98	3.91	3.78	2.03	3.68	3.64	2.09
	14	4.70	4.67	1.70	4.54	4.51	1.76	4.38	4.36	1.83	4.21	4.20	1.90	4.04	4.03	1.96	3.86	3.85	2.02	3.66	3.66	2.09
280	22	6.20	3.15	1.89	5.96	3.05	1.96	5.71	2.96	2.04	5.45	2.87	2.11	5.19	2.77	2.18	4.93	2.68	2.25	4.67	2.58	2.31
	20	5.79	3.70	1.84	5.55	3.61	1.92	5.32	3.51	1.99	5.07	3.41	2.05	4.83	3.32	2.12	4.58	3.22	2.18	4.32	3.12	2.25
	18	5.39	4.24	1.80	5.17	4.14	1.87	4.95	4.04	1.94	4.72	3.94	2.00	4.49	3.82	2.07	4.26	3.70	2.13	4.02	3.56	2.19
	16	5.08	4.68	1.77	4.88	4.56	1.83	4.68	4.44	1.90	4.47	4.31	1.96	4.27	4.17	2.03	4.05	4.01	2.09	3.84	3.84	2.15
	14	4.92	4.90	1.75	4.75	4.74	1.82	4.58	4.57	1.89	4.41	4.40	1.95	4.23	4.22	2.02	4.04	4.03	2.09	3.84	3.84	2.15
320	22	6.32	3.29	1.93	6.07	3.19	2.00	5.81	3.10	2.08	5.55	3.00	2.15	5.28	2.91	2.22	5.01	2.81	2.29	4.73	2.71	2.36
	20	5.90	3.91	1.88	5.66	3.81	1.96	5.41	3.71	2.03	5.16	3.61	2.10	4.91	3.51	2.16	4.65	3.41	2.23	4.39	3.31	2.29
	18	5.51	4.50	1.84	5.28	4.40	1.91	5.05	4.29	1.98	4.82	4.17	2.05	4.59	4.04	2.11	4.36	3.90	2.17	4.13	3.74	2.24
	16	5.22	4.95	1.81	5.01	4.82	1.88	4.80	4.68	1.94	4.60	4.54	2.01	4.39	4.38	2.08	4.19	4.19	2.14	3.99	3.99	2.21
	14	5.12	5.10	1.80	4.94	4.93	1.87	4.76	4.75	1.94	4.57	4.57	2.01	4.39	4.38	2.08	4.19	4.19	2.14	3.99	3.99	2.21

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4ASF	018	1.00	1.00	FG3ASA	024	1.04	1.04
	024	1.07	1.02		—	—	—

38CKC024-74 Outdoor Section With F(A,B)4ASF024 Indoor Section

340	22	7.82	3.93	2.62	7.49	3.81	2.73	7.16	3.68	2.84	6.83	3.56	2.95	6.49	3.43	3.06	6.15	3.31	3.16	5.81	3.19	3.26
	20	7.31	4.61	2.54	7.00	4.48	2.65	6.69	4.35	2.76	6.37	4.22	2.86	6.05	4.10	2.96	5.73	3.97	3.05	5.41	3.84	3.15
	18	6.82	5.27	2.46	6.53	5.13	2.57	6.24	5.00	2.67	5.95	4.87	2.77	5.65	4.73	2.87	5.35	4.59	2.96	5.05	4.43	3.05
	16	6.43	5.82	2.40	6.17	5.67	2.51	5.90	5.51	2.61	5.64	5.35	2.71	5.37	5.19	2.80	5.10	5.01	2.90	4.83	4.81	2.99
	14	6.20	6.17	2.37	5.98	5.96	2.48	5.76	5.74	2.58	5.54	5.52	2.69	5.31	5.30	2.79	5.07	5.06	2.89	4.82	4.82	2.99
380	22	7.97	4.08	2.66	7.63	3.96	2.78	7.28	3.83	2.89	6.94	3.71	3.00	6.59	3.58	3.11	6.24	3.46	3.21	5.89	3.33	3.30
	20	7.45	4.83	2.58	7.13	4.70	2.69	6.80	4.57	2.80	6.47	4.44	2.91	6.14	4.31	3.01	5.81	4.19	3.10	5.48	4.06	3.19
	18	6.96	5.56	2.51	6.66	5.42	2.62	6.36	5.28	2.72	6.06	5.14	2.82	5.76	4.99	2.92	5.46	4.82	3.01	5.17	4.64	3.11
	16	6.59	6.13	2.45	6.32	5.96	2.56	6.05	5.80	2.66	5.77	5.63	2.76	5.51	5.44	2.86	5.24	5.23	2.96	4.98	4.98	3.06
	14	6.43	6.40	2.43	6.20	6.18	2.54	5.96	5.95	2.65	5.73	5.72	2.75	5.48	5.48	2.86	5.24	5.24	2.96	4.98	4.98	3.06
420	22	8.08	4.23	2.71	7.73	4.11	2.82	7.38	3.98	2.93	7.02	3.85	3.05	6.67	3.72	3.15	6.31	3.60	3.25	5.95	3.47	3.35
	20	7.56	5.05	2.63	7.23	4.92	2.74	6.90	4.79	2.84	6.56	4.65	2.95	6.22	4.52	3.05	5.88	4.39	3.15	5.54	4.26	3.24
	18	7.08	5.83	2.55	6.77	5.69	2.66	6.46	5.54	2.76	6.16	5.38	2.87	5.86	5.20	2.97	5.56	5.01	3.07	5.27	4.81	3.16
	16	6.73	6.41	2.50	6.45	6.24	2.61	6.17	6.06	2.71	5.90	5.86	2.81	5.64	5.63	2.92	5.38	5.38	3.02	5.12	5.12	3.12
	14	6.62	6.60	2.48	6.38	6.37	2.59	6.13	6.13	2.70	5.88	5.88	2.81	5.63	5.63	2.92	5.38	5.38	3.02	5.12	5.12	3.12

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4ASF	024	1.00	1.00	FG3ASA	024	0.97	1.01
	030	1.00	1.00		—	—	—

38CKC036-74, 94 Outdoor Section With F(A,B)4ASF036 Indoor Section

500	22	11.9	5.99	3.68	11.4	5.81	3.85	10.9	5.62	4.01	10.4	5.43	4.17	9.92	5.25	4.32	9.42	5.07	4.47	8.92	4.89	4.61
	20	11.1	7.05	3.58	10.6	6.86	3.74	10.2	6.67	3.89	9.70	6.48	4.04	9.23	6.30	4.19	8.76	6.11	4.33	8.28	5.93	4.46
	18	10.3	8.09	3.48	9.92	7.89	3.64	9.48	7.69	3.79	9.05	7.50	3.93	8.62	7.29	4.07	8.18	7.07	4.20	7.74	6.84	4.34
	16	9.76	8.93	3.41	9.37	8.70	3.56	8.98	8.47	3.71	8.59	8.23	3.85	8.20	7.99	3.99	7.81	7.71	4.12	7.41	7.41	4.26
	14	9.46	9.41	3.37	9.13	9.09	3.53	8.80	8.77	3.68	8.47	8.45	3.83	8.13	8.11	3.97	7.77	7.77	4.12	7.41	7.41	4.26
560	22	12.1	6.22	3.76	11.6	6.04	3.92	11.1	5.85	4.09	10.6	5.67	4.25	10.1	5.48	4.40	9.54	5.30	4.55	9.03	5.12	4.69
	20	11.3	7.40	3.66	10.8	7.21	3.81	10.3	7.02	3.97	9.85	6.83	4.12	9.36	6.64	4.27	8.87	6.45	4.41	8.39	6.26	4.54
	18	10.5	8.54	3.56	10.1	8.34	3.71	9.65	8.13	3.87	9.21	7.91	4.01	8.78	7.68	4.16	8.35	7.42	4.30	7.92	7.14	4.43
	16	10.0	9.41	3.49	9.60	9.16	3.64	9.19	8.91	3.79	8.79	8.65	3.94	8.41	8.35	4.08	8.03	8.02	4.23	7.65	7.65	4.37
	14	9.79	9.76	3.46	9.44	9.42	3.62	9.10	9.08	3.78	8.74	8.73	3.93	8.39	8.39	4.08	8.03	8.03	4.23	7.65	7.65	4.37
640	22	12.3	6.53	3.85	11.8	6.34	4.02	11.3	6.15	4.18	10.7	5.96	4.34	10.2	5.77	4.50	9.67	5.59	4.65	9.13	5.40	4.79
	20	11.5	7.85	3.75	11.0	7.66	3.91	10.5	7.46	4.07	10.0	7.26	4.22	9.50	7.07	4.37	9.00	6.88	4.51	8.50	6.69	4.64
	18	10.8	9.10	3.66	10.3	8.88	3.81	9.86	8.64	3.97	9.41	8.37	4.12	8.98	8.08	4.27	8.55	7.79	4.41	8.11	7.49	4.55
	16	10.3	9.98	3.59	9.86	9.70	3.75	9.45	9.40	3.90	9.06	9.06	4.06	8.68	8.68	4.21	8.30	8.30	4.36	7.91	7.91	4.51
	14	10.2	10.2	3.58	9.80	9.80	3.74	9.43	9.43	3.90	9.06	9.06	4.06	8.68	8.68	4.21	8.30	8.30	4.36	7.91	7.91	4.51

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4ASF	036	1.00	1.00	FG3ASA	036	0.97	1.00
F(A,B)4AS(F,B)	042	1.02	1.01		—	—	—

See notes on pg. 10.

Detailed cooling capacities* (S.I.) continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °C																				
L/S	(C) EWB	28			32			36			40			44			48			52		
		Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**	Capacity† (KW)		Comp. Power KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38CKC048-94 Outdoor Section With F(A,B)4AS(F,B)048 Indoor Section																						
650	22	15.4	7.80	4.09	14.9	7.62	4.35	14.4	7.44	4.63	13.9	7.25	4.91	13.4	7.07	5.22	12.9	6.88	5.55	12.4	6.69	5.90
	20	14.4	9.23	4.01	14.0	9.05	4.26	13.5	8.87	4.53	13.0	8.68	4.81	12.6	8.49	5.11	12.1	8.30	5.43	11.6	8.11	5.77
	18	13.5	10.6	3.92	13.1	10.5	4.17	12.7	10.3	4.43	12.2	10.1	4.71	11.8	9.87	5.01	11.3	9.66	5.32	10.9	9.45	5.64
	16	12.8	11.8	3.86	12.4	11.6	4.11	12.1	11.3	4.36	11.7	11.1	4.64	11.3	10.9	4.94	10.8	10.6	5.24	10.4	10.3	5.56
14	12.5	12.4	3.83	12.1	12.1	4.08	11.8	11.8	4.34	11.5	11.5	4.62	11.1	11.1	4.92	10.8	10.8	5.23	10.4	10.4	5.56	
750	22	15.7	8.18	4.19	15.2	8.01	4.45	14.7	7.82	4.72	14.1	7.64	5.01	13.6	7.45	5.32	13.1	7.26	5.65	12.5	7.07	5.99
	20	14.7	9.81	4.10	14.2	9.62	4.35	13.7	9.44	4.62	13.3	9.25	4.90	12.8	9.05	5.21	12.3	8.86	5.53	11.8	8.67	5.86
	18	13.8	11.4	4.02	13.4	11.2	4.27	12.9	11.0	4.53	12.5	10.8	4.81	12.0	10.5	5.11	11.6	10.3	5.43	11.2	9.98	5.76
	16	13.2	12.5	3.96	12.8	12.3	4.21	12.4	12.1	4.47	12.0	11.8	4.74	11.6	11.5	5.05	11.2	11.2	5.37	10.8	10.8	5.70
14	13.0	12.9	3.94	12.6	12.6	4.19	12.3	12.3	4.46	11.9	11.9	4.74	11.5	11.5	5.04	11.2	11.2	5.37	10.8	10.8	5.70	
850	22	15.9	8.56	4.28	15.4	8.38	4.54	14.9	8.20	4.81	14.3	8.01	5.10	13.8	7.82	5.41	13.2	7.62	5.74	12.7	7.43	6.09
	20	14.9	10.4	4.18	14.4	10.2	4.44	13.9	10.0	4.71	13.4	9.81	4.99	12.9	9.61	5.30	12.4	9.41	5.62	11.9	9.21	5.95
	18	14.1	12.1	4.10	13.6	11.8	4.35	13.2	11.6	4.62	12.7	11.3	4.90	12.3	11.0	5.21	11.8	10.7	5.53	11.4	10.4	5.87
	16	13.5	13.2	4.05	13.1	12.9	4.30	12.7	12.6	4.56	12.3	12.3	4.85	11.9	11.9	5.16	11.5	11.5	5.48	11.1	11.1	5.82
14	13.4	13.4	4.04	13.0	13.0	4.30	12.7	12.7	4.56	12.3	12.3	4.85	11.9	11.9	5.16	11.5	11.5	5.48	11.1	11.1	5.82	

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4AS(F,B)	048	1.00		FG3ASA	048	0.98	1.00
	060	1.03			060	1.00	1.01

38CKC060-94 Outdoor Section With F(A,B)4AS(F,B)060 Indoor Section

750	22	18.8	9.45	5.47	18.2	9.23	5.88	17.6	9.01	6.31	17.0	8.78	6.77	16.4	8.54	7.27	15.7	8.30	7.81	15.0	8.06	8.37
	20	17.7	11.2	5.33	17.1	11.0	5.73	16.6	10.7	6.15	16.0	10.5	6.61	15.4	10.2	7.12	14.8	10.0	7.64	14.1	9.76	8.19
	18	16.6	12.9	5.20	16.1	12.6	5.60	15.5	12.4	6.02	15.0	12.2	6.48	14.4	11.9	6.97	13.9	11.6	7.49	13.2	11.4	8.01
	16	15.7	14.3	5.10	15.2	14.0	5.50	14.8	13.7	5.92	14.3	13.4	6.38	13.8	13.1	6.87	13.2	12.8	7.38	12.7	12.5	7.89
14	15.2	15.1	5.05	14.8	14.7	5.45	14.4	14.4	5.88	14.0	14.0	6.34	13.6	13.5	6.84	13.1	13.1	7.36	12.6	12.6	7.88	
850	22	19.1	9.86	5.60	18.5	9.63	6.00	17.9	9.41	6.43	17.3	9.17	6.89	16.6	8.93	7.40	15.9	8.69	7.94	15.2	8.44	8.50
	20	18.0	11.8	5.46	17.4	11.6	5.85	16.8	11.3	6.28	16.2	11.1	6.74	15.6	10.8	7.24	14.9	10.6	7.77	14.3	10.3	8.32
	18	16.9	13.7	5.33	16.3	13.4	5.72	15.8	13.2	6.14	15.2	12.9	6.60	14.7	12.6	7.10	14.1	12.3	7.62	13.5	12.0	8.16
	16	16.1	15.1	5.23	15.6	14.8	5.63	15.1	14.5	6.05	14.6	14.2	6.51	14.1	13.8	7.01	13.6	13.5	7.53	13.0	13.0	8.06
14	15.7	15.7	5.20	15.3	15.3	5.60	14.9	14.9	6.03	14.5	14.4	6.49	14.0	14.0	7.00	13.5	13.5	7.52	13.0	13.0	8.06	
950	22	19.4	10.2	5.72	18.8	10.0	6.12	18.1	9.79	6.55	17.5	9.55	7.01	16.8	9.31	7.52	16.1	9.07	8.06	15.4	8.82	8.62
	20	18.2	12.4	5.57	17.6	12.1	5.97	17.0	11.9	6.40	16.4	11.7	6.85	15.7	11.4	7.36	15.1	11.2	7.88	14.4	10.9	8.43
	18	17.1	14.4	5.44	16.6	14.1	5.84	16.0	13.9	6.26	15.5	13.6	6.72	14.9	13.2	7.23	14.3	12.9	7.75	13.8	12.5	8.30
	16	16.4	15.8	5.36	15.9	15.5	5.75	15.4	15.2	6.18	14.9	14.8	6.64	14.4	14.4	7.15	13.9	13.9	7.68	13.4	13.4	8.22
14	16.2	16.2	5.34	15.8	15.8	5.74	15.3	15.3	6.17	14.9	14.9	6.64	14.4	14.4	7.15	13.9	13.9	7.68	13.4	13.4	8.22	
1000	22	19.5	10.4	5.77	18.9	10.2	6.18	18.2	9.97	6.60	17.5	9.74	7.07	16.8	9.50	7.57	16.1	9.25	8.11	15.4	9.00	8.67
	20	18.3	12.6	5.63	17.7	12.4	6.02	17.1	12.2	6.45	16.5	11.9	6.91	15.8	11.7	7.41	15.2	11.4	7.94	14.5	11.2	8.49
	18	17.2	14.7	5.50	16.7	14.5	5.90	16.1	14.2	6.32	15.6	13.8	6.78	15.0	13.5	7.29	14.4	13.1	7.82	13.9	12.7	8.37
	16	16.5	16.2	5.42	16.0	15.8	5.81	15.6	15.5	6.24	15.1	15.0	6.71	14.6	14.5	7.22	14.0	14.0	7.75	13.5	13.5	8.30
14	16.4	16.4	5.40	16.0	16.0	5.81	15.5	15.5	6.24	15.0	15.0	6.71	14.6	14.6	7.22	14.0	14.0	7.75	13.5	13.5	8.30	

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4AS(F,B)	060	1.00	1.00	FG3ASA	060	0.98	0.96
FB4ASB	070	1.02	1.03		—	—	—

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

‡ Sensible capacities shown are based on 27°C entering air at the indoor coil. For sensible capacities at other than 27°C, deduct 245 kw per 480 L/S of indoor coil air for each degree below 27°C, or add 245 kw per 480 L/S of indoor coil air per degree above 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.

EWB — Entering Wet Bulb

Detailed cooling capacities* (English)

INDOOR COIL AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		CFM	(F) EWB	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		
38CKC018-74 Outdoor Section With F(A,B)4ASF018 Indoor Section																			
525	72	21.7	10.4	1.78	20.6	10.0	1.89	19.5	9.58	1.99	18.3	9.15	2.09	17.1	8.71	2.19	15.9	8.26	2.28
	67	19.7	12.8	1.72	18.7	12.4	1.82	17.6	11.9	1.92	16.5	11.5	2.01	15.4	11.0	2.10	14.2	10.6	2.18
	62	17.8	15.2	1.67	16.9	14.7	1.76	15.9	14.2	1.85	14.9	13.7	1.94	13.9	13.2	2.02	12.7	12.6	2.10
	57	16.7	16.7	1.63	15.9	15.9	1.73	15.2	15.2	1.82	14.4	14.4	1.92	13.6	13.6	2.00	12.6	12.6	2.10
600	72	22.2	10.9	1.82	21.1	10.4	1.92	19.9	10.0	2.03	18.7	9.56	2.13	17.4	9.12	2.23	16.1	8.66	2.32
	67	20.2	13.5	1.76	19.1	13.1	1.86	18.0	12.6	1.96	16.9	12.2	2.05	15.7	11.7	2.14	14.5	11.2	2.23
	62	18.3	16.1	1.70	17.3	15.7	1.80	16.3	15.2	1.89	15.3	14.6	1.98	14.2	14.0	2.06	13.2	13.2	2.15
	57	17.4	17.4	1.68	16.6	16.6	1.78	15.8	15.8	1.87	15.0	15.0	1.97	14.1	14.1	2.06	13.2	13.2	2.15
675	72	22.6	11.3	1.85	21.4	10.8	1.96	20.2	10.4	2.06	18.9	9.94	2.17	17.7	9.50	2.27	16.4	9.04	2.36
	67	20.5	14.2	1.79	19.4	13.8	1.90	18.3	13.3	1.99	17.1	12.8	2.09	15.9	12.4	2.18	14.7	11.9	2.26
	62	18.7	17.0	1.74	17.6	16.5	1.84	16.6	16.0	1.93	15.6	15.4	2.02	14.6	14.6	2.11	13.6	13.6	2.20
	57	18.0	18.0	1.72	17.2	17.2	1.82	16.4	16.4	1.92	15.5	15.5	2.02	14.6	14.6	2.11	13.6	13.6	2.20
Multipliers for Determining the Performance With Other Indoor Sections																			
Indoor Section		Size		Cooling				Indoor Section		Size		Cooling							
F(A,B)4ASF		018		Capacity		Power		FG3ASA		024		Capacity		Power					
		024		1.00		1.00				—		1.04		1.04					
				1.07		1.02						—		—					
38CKC024-74 Outdoor Section With F(A,B)4ASF024 Indoor Section																			
700	72	27.9	13.5	2.49	26.4	12.9	2.66	24.8	12.3	2.82	23.2	11.7	2.97	21.6	11.1	3.11	20.0	10.5	3.25
	67	25.4	16.6	2.39	24.0	16.0	2.54	22.5	15.4	2.69	21.1	14.8	2.84	19.6	14.2	2.97	18.1	13.6	3.10
	62	23.1	19.7	2.29	21.8	19.0	2.44	20.4	18.4	2.58	19.1	17.7	2.72	17.8	17.1	2.84	16.4	16.3	2.97
	57	21.7	21.7	2.24	20.7	20.7	2.39	19.7	19.7	2.54	18.6	18.6	2.68	17.5	17.5	2.82	16.4	16.4	2.96
800	72	28.5	14.1	2.55	26.9	13.5	2.71	25.3	12.9	2.87	23.7	12.3	3.02	22.0	11.7	3.17	20.3	11.1	3.31
	67	26.0	17.6	2.44	24.5	17.0	2.60	23.0	16.4	2.75	21.5	15.7	2.89	19.9	15.1	3.03	18.4	14.5	3.15
	62	23.7	21.0	2.35	22.3	20.4	2.50	20.9	19.7	2.64	19.6	19.0	2.78	18.3	18.2	2.91	17.0	17.0	3.05
	57	22.6	22.6	2.31	21.6	21.6	2.46	20.5	20.5	2.61	19.4	19.4	2.76	18.2	18.2	2.91	17.1	17.1	3.04
900	72	29.0	14.6	2.60	27.4	14.0	2.76	25.7	13.4	2.92	24.0	12.8	3.08	22.3	12.2	3.22	20.6	11.6	3.36
	67	26.5	18.6	2.49	25.0	17.9	2.65	23.4	17.3	2.80	21.8	16.7	2.94	20.2	16.0	3.08	18.6	15.4	3.21
	62	24.2	22.3	2.40	22.8	21.6	2.55	21.4	20.8	2.69	20.1	20.0	2.83	18.8	18.8	2.98	17.6	17.6	3.12
	57	23.5	23.5	2.37	22.3	22.3	2.53	21.2	21.2	2.68	20.0	20.0	2.83	18.8	18.8	2.98	17.6	17.6	3.12
Multipliers for Determining the Performance With Other Indoor Sections																			
Indoor Section		Size		Cooling				Indoor Section		Size		Cooling							
F(A,B)4ASF		024		Capacity		Power		FG3ASA		024		Capacity		Power					
		030		1.00		1.00				—		0.97		1.01					
				1.00		1.00						—		—					
38CKC036-74, 94 Outdoor Section With F(A,B)4ASF036 Indoor Section																			
1050	72	42.5	20.6	3.51	40.2	19.7	3.75	37.9	18.9	3.98	35.6	18.0	4.20	33.2	17.1	4.41	30.8	16.3	4.61
	67	38.6	25.6	3.38	36.5	24.7	3.60	34.4	23.8	3.82	32.2	22.9	4.03	30.0	22.0	4.22	27.8	21.2	4.40
	62	35.0	30.5	3.26	33.1	29.6	3.47	31.1	28.6	3.67	29.2	27.6	3.87	27.3	26.6	4.06	25.3	25.3	4.24
	57	33.2	33.2	3.20	31.7	31.7	3.42	30.2	30.2	3.63	28.6	28.6	3.84	27.0	27.0	4.04	25.3	25.3	4.24
1200	72	43.4	21.5	3.61	41.0	20.6	3.84	38.6	19.8	4.07	36.2	18.9	4.29	33.7	18.0	4.50	31.2	17.1	4.70
	67	39.5	27.2	3.47	37.2	26.3	3.69	35.0	25.3	3.91	32.7	24.4	4.12	30.5	23.5	4.32	28.2	22.6	4.50
	62	35.9	32.6	3.35	33.9	31.6	3.56	31.9	30.6	3.77	29.9	29.5	3.97	28.1	28.1	4.17	26.3	26.3	4.37
	57	34.7	34.7	3.31	33.1	33.1	3.53	31.4	31.4	3.75	29.7	29.7	3.96	28.1	28.1	4.17	26.3	26.3	4.37
1350	72	44.1	22.4	3.69	41.7	21.5	3.92	39.2	20.6	4.15	36.6	19.7	4.37	34.1	18.8	4.59	31.5	18.0	4.79
	67	40.1	28.7	3.55	37.9	27.7	3.77	35.5	26.8	3.99	33.2	25.9	4.20	30.8	24.9	4.40	28.5	24.0	4.59
	62	36.6	34.6	3.43	34.6	33.5	3.65	32.6	32.3	3.86	30.7	30.7	4.07	28.9	28.9	4.28	27.1	27.1	4.49
	57	35.9	35.9	3.41	34.2	34.2	3.63	32.5	32.5	3.86	30.7	30.7	4.07	28.9	28.9	4.29	27.1	27.1	4.49
Multipliers for Determining the Performance With Other Indoor Sections																			
Indoor Section		Size		Cooling				Indoor Section		Size		Cooling							
F(A,B)4ASF		036		Capacity		Power		FG3ASA		036		Capacity		Power					
F(A,B)4AS(F,B)		042		1.00		1.00				—		0.97		1.00					
				1.02		1.01						—		—					

See notes on pg. 12.

Detailed cooling capacities* (English) continued

INDOOR COIL AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		CFM	(F) EWB	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	Gross Capacity† (MBtuh)		Comp. Power KW**	
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡					
38CKC048-94 Outdoor Section With F(A,B)4AS(F,B)048 Indoor Section																			
1400	72	54.5	26.8	3.86	52.3	26.0	4.20	50.0	25.1	4.58	47.6	24.2	4.98	45.2	23.4	5.41	42.7	22.5	5.89
	67	49.9	33.7	3.75	47.8	32.9	4.08	45.7	32.0	4.44	43.6	31.1	4.82	41.3	30.2	5.25	39.0	29.3	5.71
	62	45.6	40.5	3.64	43.8	39.6	3.96	41.9	38.6	4.32	39.9	37.6	4.70	37.9	36.6	5.11	35.8	35.4	5.55
	57	43.8	43.8	3.60	42.3	42.3	3.92	40.7	40.7	4.28	39.1	39.1	4.67	37.5	37.5	5.09	35.7	35.7	5.54
1600	72	55.5	28.0	3.95	53.2	27.2	4.29	50.8	26.3	4.67	48.4	25.4	5.07	45.8	24.5	5.50	43.2	23.6	5.99
	67	50.8	35.7	3.83	48.7	34.9	4.16	46.5	34.0	4.53	44.2	33.1	4.92	41.9	32.2	5.34	39.6	31.3	5.80
	62	46.6	43.2	3.73	44.8	42.3	4.05	42.8	41.2	4.41	40.8	40.1	4.79	38.8	38.8	5.22	37.0	37.0	5.67
	57	45.5	45.5	3.70	43.9	43.9	4.03	42.2	42.2	4.39	40.5	40.5	4.78	38.8	38.8	5.22	37.0	37.0	5.67
1800	72	56.3	29.1	4.03	53.9	28.3	4.38	51.5	27.4	4.75	48.9	26.6	5.15	46.3	25.6	5.59	43.6	24.7	6.07
	67	51.6	37.7	3.91	49.4	36.9	4.24	47.1	36.0	4.61	44.8	35.0	5.00	42.3	34.1	5.43	40.0	33.1	5.89
	62	47.5	45.7	3.81	45.6	44.6	4.14	43.6	43.4	4.49	41.7	41.7	4.89	39.8	39.8	5.32	37.9	37.9	5.79
	57	46.9	46.9	3.80	45.2	45.2	4.13	43.5	43.5	4.49	41.7	41.7	4.89	39.9	39.9	5.32	37.9	37.9	5.79

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4AS(F,B)	048	1.00	1.00	FG3ASA	048	0.98	1.00
	060	1.03	1.01		060	1.00	1.01

38CKC060-94 Outdoor Section With F(A,B)4AS(F,B)060 Indoor Section

1600	72	66.7	32.4	5.11	64.0	31.4	5.63	61.2	30.4	6.21	58.2	29.3	6.86	55.2	28.1	7.57	51.9	27.0	8.35
	67	61.0	40.6	4.92	58.5	39.6	5.43	56.0	38.5	6.01	53.3	37.4	6.64	50.4	36.3	7.35	47.5	35.1	8.10
	62	55.8	48.7	4.75	53.6	47.6	5.26	51.3	46.5	5.83	48.8	45.3	6.46	46.3	44.0	7.15	43.5	42.6	7.86
	57	53.2	53.2	4.67	51.4	51.4	5.19	49.6	49.6	5.76	47.6	47.6	6.41	45.5	45.5	7.12	43.2	43.2	7.84
1850	72	68.1	34.0	5.26	65.2	32.9	5.78	62.3	31.9	6.36	59.2	30.8	7.00	56.0	29.6	7.72	52.6	28.4	8.50
	67	62.3	43.3	5.06	59.7	42.3	5.58	57.0	41.2	6.15	54.1	40.0	6.79	51.2	38.8	7.49	48.2	37.6	8.25
	62	57.1	52.4	4.90	54.8	51.2	5.41	52.4	50.0	5.97	49.9	48.7	6.61	47.4	47.1	7.31	44.9	44.9	8.05
	57	55.5	55.5	4.85	53.6	53.6	5.37	51.6	51.6	5.95	49.5	49.5	6.59	47.3	47.3	7.31	44.9	44.9	8.05
2000	72	68.7	34.9	5.34	65.8	33.8	5.86	62.8	32.7	6.44	59.6	31.6	7.09	56.3	30.5	7.80	52.9	29.3	8.58
	67	62.9	44.8	5.14	60.3	43.8	5.66	57.5	42.7	6.23	54.6	41.5	6.87	51.6	40.3	7.57	48.5	39.1	8.33
	62	57.8	54.4	4.98	55.4	53.2	5.49	53.0	51.8	6.06	50.5	50.3	6.69	48.1	48.1	7.41	45.7	45.7	8.17
	57	56.7	56.7	4.94	54.7	54.7	5.46	52.6	52.6	6.04	50.4	50.4	6.69	48.1	48.1	7.41	45.7	45.7	8.17
2150	72	69.3	35.7	5.42	66.3	34.7	5.94	63.2	33.6	6.52	60.0	32.5	7.17	56.7	31.3	7.88	53.2	30.1	8.66
	67	63.4	46.3	5.22	60.7	45.3	5.73	57.9	44.1	6.31	54.9	43.0	6.94	51.9	41.8	7.65	48.8	40.5	8.41
	62	58.4	56.3	5.06	56.0	55.0	5.57	53.7	53.4	6.14	51.3	51.3	6.79	48.9	48.9	7.51	46.4	46.4	8.27
	57	57.8	57.8	5.04	55.7	55.7	5.56	53.5	53.5	6.14	51.3	51.3	6.79	48.9	48.9	7.51	46.4	46.4	8.27

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
F(A,B)4AS(F,B)	060	1.00	1.00	FG3ASA	060	0.98	0.96
FB4ASB	070	1.02	1.03		—	—	—

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-94. 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.

EWB — Entering Wet Bulb

Condenser only ratings (S.I.)

SST °C		CONDENSER ENTERING AIR TEMPERATURES °C								
		20	24	28	32	36	40	44	48	52
38CKC018-74										
-2	TCG	4.80	4.52	4.22	3.92	3.62	3.32	3.04	2.76	2.50
	KW	1.24	1.30	1.34	1.38	1.41	1.44	1.46	1.48	1.49
	SDT	28.5	33.1	37.6	41.9	46.2	50.4	54.6	58.7	62.8
0	TCG	5.22	4.93	4.63	4.32	4.01	3.70	3.40	3.11	2.83
	KW	1.27	1.33	1.38	1.42	1.46	1.49	1.52	1.54	1.55
	SDT	28.4	33.1	37.6	41.9	46.2	50.4	54.6	58.7	62.8
2	TCG	5.64	5.34	5.03	4.72	4.40	4.08	3.77	3.46	3.15
	KW	1.30	1.36	1.41	1.46	1.51	1.55	1.58	1.60	1.62
	SDT	28.4	33.1	37.6	42.0	46.2	50.4	54.6	58.7	62.8
4	TCG	6.07	5.77	5.45	5.13	4.81	4.48	4.15	3.82	3.50
	KW	1.32	1.39	1.45	1.50	1.55	1.60	1.63	1.66	1.69
	SDT	28.4	33.2	37.7	42.1	46.4	50.6	54.7	58.8	62.8
6	TCG	6.53	6.22	5.89	5.56	5.23	4.89	4.55	4.21	3.87
	KW	1.35	1.42	1.48	1.54	1.60	1.65	1.69	1.73	1.76
	SDT	28.4	33.3	37.9	42.3	46.6	50.8	54.9	59.0	63.0
8	TCG	6.99	6.67	6.34	6.00	5.65	5.30	4.95	4.60	4.25
	KW	1.37	1.45	1.52	1.58	1.65	1.70	1.75	1.79	1.83
	SDT	28.4	33.4	38.1	42.5	46.9	51.1	55.2	59.3	63.3
10	TCG	7.47	7.14	6.80	6.45	6.09	5.73	5.37	5.01	4.64
	KW	1.40	1.48	1.55	1.62	1.69	1.75	1.81	1.85	1.90
	SDT	28.3	33.5	38.2	42.8	47.2	51.4	55.5	59.6	63.6
38CKC024-74										
-2	TCG	6.03	5.69	5.34	5.00	4.66	4.33	4.00	3.67	3.36
	KW	1.77	1.85	1.92	1.98	2.03	2.07	2.10	2.12	2.13
	SDT	35.1	38.9	42.7	46.5	50.3	54.0	57.7	61.4	65.1
0	TCG	6.52	6.16	5.80	5.44	5.09	4.74	4.39	4.05	3.71
	KW	1.82	1.91	1.98	2.05	2.11	2.16	2.20	2.23	2.25
	SDT	35.9	39.7	43.5	47.3	51.1	54.8	58.5	62.2	65.9
2	TCG	7.02	6.64	6.26	5.89	5.51	5.15	4.78	4.43	4.07
	KW	1.88	1.97	2.05	2.13	2.19	2.25	2.30	2.33	2.36
	SDT	36.7	40.5	44.3	48.1	51.9	55.6	59.3	62.9	66.6
4	TCG	7.53	7.14	6.74	6.35	5.96	5.58	5.20	4.82	4.45
	KW	1.93	2.03	2.12	2.20	2.27	2.34	2.39	2.44	2.47
	SDT	37.5	41.4	45.2	48.9	52.7	56.4	60.1	63.7	67.4
6	TCG	8.07	7.65	7.24	6.83	6.42	6.02	5.62	5.23	4.84
	KW	1.98	2.09	2.19	2.27	2.36	2.43	2.49	2.54	2.59
	SDT	38.4	42.3	46.1	49.8	53.5	57.2	60.9	64.6	68.2
8	TCG	8.62	8.18	7.75	7.32	6.90	6.47	6.06	5.65	5.24
	KW	2.04	2.15	2.25	2.35	2.44	2.52	2.59	2.65	2.70
	SDT	39.3	43.2	47.0	50.7	54.4	58.1	61.8	65.4	69.0
10	TCG	9.19	8.74	8.29	7.84	7.39	6.95	6.52	6.08	5.65
	KW	2.10	2.21	2.32	2.43	2.52	2.61	2.69	2.76	2.82
	SDT	40.3	44.1	47.9	51.7	55.4	59.1	62.7	66.3	69.9
38CKC036-74, 94										
-2	TCG	8.75	8.26	7.78	7.30	6.83	6.36	5.88	5.41	4.95
	KW	2.48	2.60	2.70	2.80	2.88	2.95	3.00	3.04	3.07
	SDT	30.9	35.1	39.1	43.1	47.1	51.0	55.0	58.9	62.9
0	TCG	9.48	8.97	8.47	7.97	7.47	6.98	6.49	6.00	5.51
	KW	2.55	2.68	2.79	2.89	2.99	3.07	3.13	3.19	3.23
	SDT	31.4	35.6	39.6	43.6	47.6	51.5	55.4	59.3	63.2
2	TCG	10.2	9.68	9.16	8.63	8.11	7.60	7.09	6.58	6.07
	KW	2.62	2.76	2.88	2.99	3.10	3.19	3.27	3.33	3.38
	SDT	31.9	36.1	40.1	44.1	48.1	52.0	55.8	59.7	63.5
4	TCG	11.0	10.4	9.88	9.33	8.78	8.24	7.71	7.18	6.66
	KW	2.69	2.83	2.97	3.09	3.21	3.31	3.40	3.47	3.54
	SDT	32.4	36.6	40.7	44.7	48.7	52.6	56.4	60.2	64.0
6	TCG	11.8	11.2	10.6	10.0	9.48	8.91	8.36	7.80	7.25
	KW	2.76	2.91	3.06	3.19	3.32	3.43	3.53	3.62	3.69
	SDT	32.9	37.1	41.2	45.3	49.3	53.2	57.0	60.8	64.6
8	TCG	12.6	12.0	11.4	10.8	10.2	9.60	9.02	8.44	7.87
	KW	2.83	2.99	3.15	3.29	3.43	3.55	3.66	3.76	3.85
	SDT	33.5	37.7	41.8	45.9	49.9	53.8	57.6	61.4	65.2
10	TCG	13.4	12.8	12.2	11.6	11.0	10.3	9.72	9.11	8.51
	KW	2.90	3.07	3.24	3.39	3.54	3.68	3.80	3.90	4.00
	SDT	34.0	38.3	42.5	46.5	50.5	54.5	58.3	62.1	65.8

See notes on pg. 14.

Condenser only ratings (S.I.) continued

SST °C		CONDENSER ENTERING AIR TEMPERATURES °C								
		20	24	28	32	36	40	44	48	52
38CKC048-94										
-2	TCG	11.7	11.3	10.9	10.5	10.0	9.58	9.15	8.76	8.42
	KW	3.18	3.41	3.64	3.89	4.15	4.42	4.71	5.02	5.34
	SDT	33.9	38.1	42.2	46.4	50.4	54.5	58.6	62.5	66.3
0	TCG	12.7	12.2	11.8	11.4	10.9	10.4	9.99	9.56	9.17
	KW	3.25	3.48	3.73	3.98	4.24	4.52	4.83	5.14	5.47
	SDT	34.7	38.9	43.0	47.2	51.2	55.3	59.4	63.3	67.2
2	TCG	13.6	13.2	12.8	12.3	11.8	11.3	10.8	10.4	9.93
	KW	3.32	3.56	3.81	4.07	4.34	4.63	4.94	5.26	5.60
	SDT	35.5	39.7	43.8	48.0	52.0	56.1	60.2	64.2	68.0
4	TCG	14.6	14.2	13.7	13.2	12.7	12.2	11.7	11.2	10.7
	KW	3.40	3.64	3.90	4.16	4.44	4.74	5.05	5.38	5.73
	SDT	36.3	40.5	44.6	48.8	52.9	56.9	61.0	65.0	68.9
6	TCG	15.6	15.1	14.6	14.1	13.6	13.0	12.5	12.0	11.4
	KW	3.47	3.71	3.98	4.25	4.54	4.84	5.17	5.51	5.86
	SDT	37.1	41.3	45.4	49.6	53.7	57.7	61.8	65.8	69.7
8	TCG	16.6	16.1	15.6	15.0	14.5	13.9	13.3	12.8	12.2
	KW	3.54	3.79	4.06	4.35	4.64	4.95	5.28	5.63	5.99
	SDT	37.8	42.1	46.2	50.4	54.5	58.5	62.6	66.6	70.6
10	TCG	17.6	17.1	16.5	16.0	15.4	14.8	14.2	13.6	12.9
	KW	3.61	3.87	4.15	4.44	4.74	5.06	5.39	5.75	6.12
	SDT	38.6	42.9	47.0	51.2	55.3	59.3	63.4	67.4	71.4
38CKC060-94										
-2	TCG	15.4	14.9	14.4	13.8	13.3	12.8	12.2	11.7	11.1
	KW	3.48	3.78	4.12	4.49	4.88	5.29	5.72	6.17	6.63
	SDT	34.6	38.7	42.9	47.0	51.2	55.3	59.3	63.2	67.0
0	TCG	16.4	15.9	15.3	14.8	14.2	13.6	13.1	12.5	11.9
	KW	3.56	3.86	4.21	4.58	4.97	5.39	5.83	6.29	6.76
	SDT	35.3	39.5	43.6	47.8	51.9	56.0	60.0	64.0	67.9
2	TCG	17.4	16.9	16.3	15.8	15.2	14.5	13.9	13.3	12.7
	KW	3.64	3.95	4.30	4.67	5.06	5.49	5.94	6.41	6.89
	SDT	36.0	40.2	44.4	48.5	52.6	56.8	60.8	64.8	68.7
4	TCG	18.5	18.0	17.4	16.7	16.1	15.5	14.8	14.2	13.5
	KW	3.73	4.04	4.39	4.77	5.16	5.59	6.06	6.54	7.02
	SDT	36.8	41.0	45.1	49.3	53.4	57.5	61.6	65.6	69.5
6	TCG	19.7	19.1	18.4	17.8	17.1	16.5	15.8	15.1	14.4
	KW	3.83	4.14	4.49	4.87	5.27	5.71	6.18	6.67	7.16
	SDT	37.6	41.8	46.0	50.1	54.2	58.3	62.4	66.5	70.4
8	TCG	20.9	20.2	19.6	18.9	18.2	17.5	16.7	16.0	15.2
	KW	3.93	4.25	4.60	4.98	5.39	5.82	6.30	6.80	7.31
	SDT	38.5	42.6	46.8	50.9	55.1	59.2	63.3	67.3	71.3
10	TCG	22.1	21.4	20.7	20.0	19.3	18.5	17.7	16.9	16.1
	KW	4.04	4.36	4.72	5.10	5.51	5.95	6.43	6.93	7.46
	SDT	39.3	43.5	47.7	51.8	55.9	60.0	64.1	68.1	72.2

SST — Saturated Temperature Entering Compressor (°C)

TCG — Gross Cooling Capacity (Kw)

KW — Total Power (Kw)

SDT — Saturated Temperature Leaving Compressor (°C)

Condenser only ratings (English)

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38CKC018-74									
30	TCG	18.7	17.4	16.1	14.6	13.2	11.8	10.4	9.11
	KW	1.15	1.23	1.31	1.38	1.43	1.47	1.50	1.52
	SDT	67.5	79.8	91.4	103.0	113.0	124.0	134.0	144.0
35	TCG	20.7	19.4	18.0	16.6	15.1	13.6	12.1	10.6
	KW	1.18	1.27	1.35	1.43	1.49	1.54	1.58	1.61
	SDT	66.9	79.6	91.4	103.0	113.0	124.0	134.0	144.0
40	TCG	22.8	21.5	20.0	18.5	17.0	15.4	13.9	12.3
	KW	1.20	1.30	1.39	1.48	1.55	1.62	1.67	1.70
	SDT	66.2	79.5	91.6	103.0	114.0	124.0	134.0	145.0
45	TCG	25.1	23.7	22.2	20.6	19.0	17.4	15.7	14.1
	KW	1.23	1.33	1.43	1.53	1.61	1.69	1.75	1.80
	SDT	65.2	79.4	91.8	103.0	114.0	125.0	135.0	145.0
50	TCG	27.3	25.9	24.4	22.8	21.1	19.4	17.7	15.9
	KW	1.26	1.37	1.47	1.58	1.68	1.76	1.83	1.89
	SDT	65.4	79.1	92.0	104.0	115.0	126.0	136.0	146.0
55	TCG	29.7	28.3	26.7	25.0	23.3	21.5	19.7	17.9
	KW	1.29	1.40	1.52	1.63	1.73	1.83	1.91	1.99
	SDT	65.6	78.6	92.3	104.0	116.0	127.0	137.0	147.0
38CKC024-74									
30	TCG	23.5	21.8	20.2	18.5	16.8	15.2	13.6	12.1
	KW	1.64	1.76	1.87	1.97	2.05	2.12	2.16	2.18
	SDT	83.2	92.9	103.0	112.0	121.0	131.0	140.0	149.0
35	TCG	26.0	24.2	22.4	20.6	18.9	17.2	15.5	13.8
	KW	1.69	1.83	1.96	2.07	2.17	2.24	2.30	2.34
	SDT	85.1	94.9	105.0	114.0	123.0	133.0	142.0	151.0
40	TCG	28.6	26.7	24.8	22.9	21.0	19.2	17.4	15.6
	KW	1.75	1.90	2.04	2.17	2.28	2.37	2.44	2.50
	SDT	87.3	97.0	107.0	116.0	125.0	135.0	144.0	153.0
45	TCG	31.3	29.3	27.2	25.2	23.2	21.3	19.3	17.4
	KW	1.81	1.97	2.12	2.26	2.39	2.50	2.58	2.65
	SDT	89.5	99.3	109.0	118.0	128.0	137.0	146.0	155.0
50	TCG	34.1	32.0	29.8	27.7	25.6	23.5	21.4	19.4
	KW	1.87	2.05	2.21	2.36	2.50	2.62	2.73	2.81
	SDT	91.8	102.0	111.0	121.0	130.0	139.0	148.0	157.0
55	TCG	37.1	34.8	32.6	30.3	28.1	25.8	23.6	21.5
	KW	1.93	2.12	2.30	2.47	2.62	2.75	2.87	2.97
	SDT	94.3	104.0	114.0	123.0	132.0	142.0	151.0	160.0
38CKC036-74, 94									
30	TCG	34.0	31.7	29.3	27.0	24.7	22.4	20.1	17.9
	KW	2.28	2.46	2.63	2.78	2.91	3.01	3.09	3.14
	SDT	74.2	84.9	95.3	105.0	115.0	125.0	135.0	145.0
35	TCG	37.6	35.2	32.7	30.2	27.7	25.3	22.9	20.5
	KW	2.36	2.55	2.74	2.91	3.06	3.18	3.28	3.35
	SDT	75.3	86.1	96.6	107.0	117.0	126.0	136.0	146.0
40	TCG	41.4	38.8	36.2	33.6	30.9	28.4	25.8	23.3
	KW	2.43	2.65	2.85	3.04	3.21	3.35	3.47	3.57
	SDT	76.4	87.3	97.9	108.0	118.0	128.0	137.0	147.0
45	TCG	45.4	42.7	39.9	37.1	34.3	31.6	28.9	26.2
	KW	2.51	2.74	2.96	3.17	3.35	3.52	3.66	3.78
	SDT	77.5	88.6	99.3	110.0	120.0	129.0	139.0	148.0
50	TCG	49.6	46.8	43.8	40.9	37.9	34.9	32.1	29.2
	KW	2.59	2.83	3.07	3.30	3.50	3.69	3.86	4.00
	SDT	78.7	90.0	101.0	111.0	121.0	131.0	141.0	150.0
55	TCG	54.1	51.0	47.9	44.8	41.7	38.5	35.4	32.4
	KW	2.67	2.93	3.18	3.43	3.66	3.87	4.05	4.21
	SDT	79.9	91.4	102.0	113.0	123.0	133.0	142.0	152.0
38CKC048-94									
30	TCG	43.7	41.9	40.0	38.1	35.9	33.8	31.7	30.0
	KW	2.84	3.12	3.43	3.77	4.12	4.50	4.92	5.37
	SDT	80.0	90.5	101.0	111.0	122.0	132.0	142.0	152.0
35	TCG	48.5	46.6	44.6	42.5	40.2	37.9	35.6	33.6
	KW	2.92	3.21	3.54	3.89	4.26	4.65	5.08	5.55
	SDT	81.9	92.5	103.0	113.0	124.0	134.0	144.0	154.0
40	TCG	53.3	51.3	49.1	46.9	44.4	42.0	39.5	37.2
	KW	3.00	3.31	3.65	4.01	4.39	4.80	5.25	5.73
	SDT	83.8	94.5	105.0	115.0	126.0	136.0	146.0	156.0
45	TCG	58.1	55.9	53.7	51.3	48.7	46.1	43.3	40.7
	KW	3.09	3.41	3.75	4.13	4.53	4.95	5.41	5.91
	SDT	85.6	96.4	107.0	117.0	128.0	138.0	148.0	158.0
50	TCG	62.8	60.6	58.2	55.7	53.0	50.1	47.2	44.3
	KW	3.17	3.50	3.86	4.25	4.66	5.10	5.57	6.09
	SDT	87.5	98.4	109.0	119.0	130.0	140.0	150.0	160.0
55	TCG	67.9	65.5	63.0	60.3	57.4	54.4	51.3	48.2
	KW	3.26	3.60	3.97	4.37	4.80	5.26	5.75	6.28
	SDT	89.5	100.0	111.0	122.0	132.0	142.0	152.0	162.0

See notes on pg. 16.

Condenser only ratings (English) continued

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38CKC060-94									
30	TCG	57.0	54.7	52.3	49.8	47.3	44.6	41.9	39.2
	KW	3.02	3.39	3.81	4.28	4.81	5.39	6.00	6.65
	SDT	81.1	91.7	102.0	112.0	123.0	133.0	143.0	153.0
35	TCG	62.2	59.7	57.1	54.4	51.7	48.8	45.9	43.0
	KW	3.12	3.50	3.93	4.41	4.94	5.53	6.17	6.83
	SDT	82.9	93.5	104.0	114.0	125.0	135.0	145.0	155.0
40	TCG	67.6	64.9	62.2	59.3	56.3	53.2	50.1	46.9
	KW	3.25	3.63	4.06	4.54	5.08	5.68	6.34	7.01
	SDT	84.9	95.4	106.0	116.0	127.0	137.0	147.0	157.0
45	TCG	73.3	70.5	67.5	64.4	61.2	57.9	54.5	51.0
	KW	3.38	3.76	4.20	4.69	5.23	5.84	6.51	7.21
	SDT	86.9	97.5	108.0	118.0	129.0	139.0	149.0	159.0
50	TCG	79.3	76.3	73.1	69.8	66.3	62.8	59.1	55.3
	KW	3.52	3.91	4.35	4.85	5.40	6.01	6.68	7.42
	SDT	89.0	99.7	110.0	121.0	131.0	141.0	151.0	161.0
55	TCG	85.6	82.3	78.8	75.3	71.6	67.8	63.9	59.8
	KW	3.67	4.07	4.51	5.01	5.57	6.19	6.87	7.62
	SDT	91.3	102.0	112.0	123.0	133.0	143.0	153.0	164.0

SST — Saturated Temperature Entering Compressor (°F)

TCG — Gross Cooling Capacity (1000 Btuh)

KW — Total Power (Kw)

SDT — Saturated Temperature Leaving Compressor (°F)

System Design Summary

1. Intended for outdoor installation with free air inlet and outlet. Outdoor an external static pressure available is less than 0.01-in. wg.
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°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 (15.24m), indoor coil below = 150 ft (45.72m). (See items 6 and 7 following.)
6. For interconnecting refrigerant tube lengths between 50 ft (15.24m) and 175 ft (53.3m), consult Residential Split-System Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnection refrigerant tube length exceeds 50 ft (15.24m)
8. If any refrigerant tubing is buried, provide a minimum 6 in. (152mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (912mm) may be buried without further consideration. For buried lines longer than 3 ft. (912mm) consult your local distributor.
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.

Guide specifications

Air-Cooled, Split-System Air Conditioner 38CKC 1-1/2 to 5 Tons Nominal (5.2 to 17.5 Kw)

GENERAL

System Description

Outdoor-mounted, air-cooled, split-system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

Unit shall be manufactured in a facility registered to ISO9001/BS5750 Part II, International Standard for quality systems.

Unit will be rated in accordance with the latest edition of ARI Standard 210.

Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC (U.S.A. Standard).

Unit will be constructed in accordance with UL standards.

Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test (U.S.A. Standard).

Air-cooled condenser coils will be leak tested at 150 psig (1034 KPa) and pressure tested at 300 psig (2068 KPa).

Delivery, Storage, and Handling

Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

PRODUCTS

Equipment

Factory assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge (R-22), and special features required prior to field start-up.

Unit Cabinet

Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

Fans

Condenser fan will be direct-drive propeller type, discharging air upward.

Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings.

Shafts will be corrosion resistant.

Fan blades will be statically and dynamically balanced.

Condenser fan openings will be equipped with PVC-coated steel wire safety guards.

Compressor

Compressor will be hermetically sealed.

Compressor will be mounted on rubber vibration isolators.

Condenser Coil

Condenser coil will be air cooled.

Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

Refrigeration circuit components will include liquid line shutoff valve with sweat connections, suction shutoff valves with sweat connections, system charge of refrigerant R-22, and compressor oil.

Operating Characteristics

The capacity of the unit will meet or exceed _____ Btuh (kw) at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kw.

Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh (kw) or greater at conditions of _____ CFM (L/S) entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).

Electrical Requirements

Nominal unit electrical characteristics will be _____ v, _____ phase, 50 hertz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.

Unit electrical power will be single point connection.

Control circuit will be 24v.

Special Features

Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

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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