

**38CKC (50 Hz)
10 SEER Air Conditioner
Export Model
1-1/2 to 5 Nominal Tons (5.2 to 17.5 kW)**



Product Data



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 9.5 when used with components designated by manufacturer.

FEATURES AND BENEFITS

ELECTRICAL RANGE

230v single phase units are available sizes 018 through 036. 400v three-phase units are available in sizes 036 through 060.

WIDE RANGE OF SIZES

The 38CKC is available in 7 nominal sizes from 018 through 060 to meet the needs of residential and light commercial applications.

WEATHERARMOR™ CABINET

A weather protective cabinet of pre-painted steel is protected underneath by a zinc galvanized coating for a 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

Provides greater reliability under adverse conditions and dependable performance for many years. The permanent-split-capacitor-type motor is designed for optimum efficiency. The motor is tested and qualified under extreme conditions to ensure the greatest reliability.

UNIT DESIGN

Aluminum fin material is pre-coated on both sides with a corrosion protective coating, capable of 1000 hr salt spray exposure per ASTM B117 test

Copper tube, enhanced sine wave aluminum coated fin coil is designed for optimum heat transfer and corrosion protection. 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

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.

FEATURES AND BENEFITS (CONT.)

EASY SERVICEABILITY

One panel provides access to electrical controls. Removal of wire dome gives access to fan motor and removal of the top gives access to the coil and compressor.

PRESSURE SWITCHES

All units are equipped with high and low pressure switches.

COMPRESSOR PROTECTION

Each compressor is protected with internal temperature- and current-sensitive overloads.

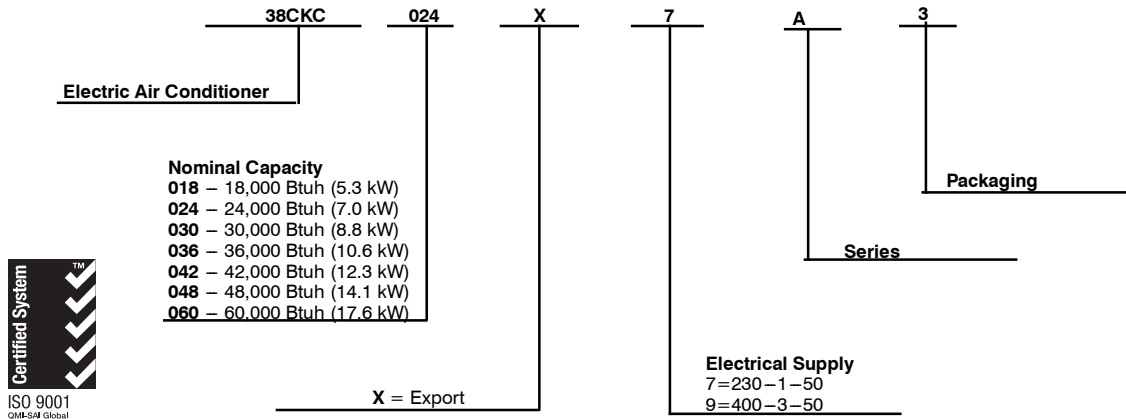
3-PHASE MONITOR BOARD

Control board that monitors the electrical phase and prevents operation if wired incorrectly. Standard on 3-phase 048 and 060 sizes.

OPERATING RANGE

Minimum outdoor operating ambient in cooling mode is 55°F (12.8°C), maximum is 125°F (51.7°C).

PRODUCT NUMBER NOMENCLATURE



38CKC

PHYSICAL DATA

Unit Size	018-7D	024-7D	030-7D	036-7D, 9D	042-9D	048-7C, 9C	060-9C
OPERATING WEIGHT (lb/kg)	120 / 54.5	130 / 59.1	140 / 63.6	152 / 69.1	175 / 79.5	213 / 96.8	219 / 99.5
COMPRESSOR TYPE	Recip				Scroll		
REFRIGERANT	R-22						
Control	AccuRater®						
Charge (Lb) @ 15 Ft./4.6m	3.76 / 1.71	3.41 / 1.55	5.00 / 2.27	4.84 / 2.20	6.25 / 2.84	6.25 / 2.84	9.10 / 4.13
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM/L/S)	1600 / 755	2000 / 944			3200 / 1510		
COND COIL	Copper Tube, Aluminum Plate Fin						
Face Area sq ft / sq m	6.2 / 0.58	7.5 / 0.70	9.1 / 0.85	12.4 / 1.15		14.8 / 1.37	22.2 / 2.06
VALVE CONNECTION (in./mm)ID	Sweat						
Vapor	5/8 / 15.88		3/4 / 19.05		7/8 / 22.23		
Liquid	3/8 / 9.53						
REFRIG. TUBES*(in./mm) OD							
Vapor (0-50 ft./0-15.24m Tube)	5/8 / 15.88		3/4 / 19.05		7/8 / 22.23		1-1/8 / 28.58
Liquid (0-50 ft./0-15.24 m/ Tube Length)	3/8 / 9.53						

* 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.

METERING DEVICE

UNIT SIZE - VOLTAGE,SERIES	PISTON IDENTIFICATION NO.	REQUIRED SUB-COOLING °F(°C) with TXV Expansion Device
018-7D	57	8 (4.4)
024-7D	63	11 (6.1)
030-7D	70	12 (6.7)
036-7D, 9D	73	16 (8.9)
042-9D	78	12 (6.7)
048-7C, 9C	90	14 (7.8)
060-9C	98	11 (6.1)

* 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.

A-WEIGHTED SOUND POWER (dBA)

UNIT SIZE - VOLTAGE, SERIES	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018-7D	77	59.0	66.0	69.0	71.5	70.0	65.0	58.5
024-7D	77	52.0	65.5	67.0	69.0	68.0	68.5	63.0
030-7D	77	55.0	64.5	71.0	72.0	70.5	69.0	62.5
036-7D, 9D	78	59.0	68.0	68.0	72.5	73.0	71.0	67.0
042-9D	78	59.0	66.5	68.5	75.5	74.5	73.0	65.5
048-7C, 9C	78	62.5	64.0	70.5	73.5	72.5	70.5	66.5
060-9C	78	58.5	66.0	69.0	73.0	70.0	70.5	66.5

38CKC

ACCESSORIES

PART NO.	DESCRIPTION
KSASHS1001AAA	Start Assist – Capacitor/Relay – Sizes 018, 024
KSASHS1301AAA	Start Assist – Capacitor/Relay – Size 030, 036 (7D)
KAACS0101PTC	Start Assist – PTC – Sizes 018, 024
KAACS0201PTC	Start Assist – PTC – Sizes 030, 036 (7D), 048 (7C)
KAALS0101LLS*	Liquid Solenoid Valve – All Sizes
KSACY0101AAA	Cycle Protector – All Sizes
KAAWS0101AAA	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, 030, 036 (7D) , 048 (7C)
KAACH1101AAA	Crankcase Heater – Sizes 036 (9D)
KAACH1301AAA	Crankcase Heater – Sizes 042, 048 (9C), 060
KAACF0701SML	Coastal Filter – Size 018
KAACF1001MED	Coastal Filter – Sizes 024, 030, 036
KAACF1101LRG	Coastal Filter – Sizes 042, 048, 060
KSATX0601HSO*	Thermostatic Expansion Valve (Hard Shutoff) – Sizes 018, 024, 030, 036, 042
KSATX0701HSO*	Thermostatic Expansion Valve (Hard Shutoff) – Size 048
KSATX1001HSO*	Thermostatic Expansion Valve (Hard Shutoff) – Size 060
KSALA0201R22	Low – Ambient Pressure Switch (R22) – All Sizes
KSALA0401AAA	MotorMaster® Control – 024, 030, 036 (7C), 048 (7C)
KSALA0501AAA	MotorMaster® Control – 036 (9A), 042, 048 (9C), 060
KH45LD060	Filter Drier – 018–042
KH45LE062	Filter Drier – 048, 060
KSASH1201COP	Sound Shield – 036
KSASH2101COP	Sound Shield – 042, 048, 060

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

ACCESSORY THERMOSTATS

PART NUMBER	PROGRAM	ELECTRIC	HEAT	COOL
TB–PAC01	5–2 Day	√	1	1
TB–NAC01	NP		1	1

THERMOSTAT ACCESSORIES		
PART NUMBER	BRIEF DESCRIPTION	THERMOSTATS USED WITH
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) – 10 pack	All Carrier® branded thermostats
TX–MBP01	Medium Decorative Backplate	TC–Nxx, TB–Pxx
TX–SBP01	Small Decorative Backplate	TB–Nxx

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBI- ENT COOLING APPLICATIONS (Below 55°F/12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft./24.38 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km)
Ball Bearing Fan Motor	Yes†	No	No
Compressor Start Assist Capacitor and Relay	Yes†	Yes	No
Crankcase Heater	Yes†	Yes	No
Evaporator Freeze Thermostat	Yes†	No	No
Hard Shut-Off TXV	Yes†	Yes	Yes
Liquid Line Solenoid Valve	No	No	No
Motor Master® Control or Low-ambient Pressure Switch	Yes†	No	No
Support Feet	Recommended	No	Recommended

* For tubing line sets between 50 (15.24 m) and 175 ft (53.34 m) and/or 20 ft (6.1 m) vertical differential, refer to Residential Split Systems Long-Line Application Guideline.

† Required for Low-Ambient Controller (full modulation feature) MotorMaster® Control.

ACCESSORY DESCRIPTION AND USAGE (LISTED ALPHABETICALLY)

1. Ball-Bearing Fan Motor

A fan motor with ball bearings, which permits speed reduction while maintaining bearing lubrication.

Usage Guideline:

Required on all units when Motor Master® Low-Ambient Controller is installed.

2. 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.

3. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

- Long line
- Low ambient
- Hard shut off expansion valve on indoor coil
- Liquid line solenoid on indoor coil

Required for scroll compressors in the following applications:

- Long line
- Low ambient

Suggested for all compressors in areas with a history of low voltage problems.

4. Compressor Start Assist - PTC Type

Solid-state electrical device which gives a "soft" boost to the compressor motor at each start up.

Usage Guideline:

Suggested when compressor power supply is marginal
Suggested in reciprocating compressor applications with rapid pressure balance (RPB) expansion valve on indoor coil.

5. 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 the chance of liquid slugging.

Usage Guideline:

Required in low ambient applications.

Required in long line applications.

Suggested in all commercial applications.

6. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

7. Filter Drier-Bi-Flow

A device for removing contaminants from refrigerant circulating in an air conditioning system: single-direction flow.

Usage Guideline:

Suggested in all field-connected split-system air conditioners.

8. High-Pressure Switch

Auto reset SPST switch activated by refrigerant pressure on high side of refrigerant circuit. Cycles compressor off if refrigerant pressure rises to 426 ± 10 psig and resets at 320 ± 20 psig. Provides protection against compressor damage due to loss of outdoor airflow.

Usage Guideline:

Suggested in installations exposed to "very dirty" outdoor air.

Suggested in installations where condenser inlet air temperature exceeds 125°F. (51.7°C)

ACCESSORY DESCRIPTION AND USAGE (LISTED ALPHABETICALLY) (CONT.)

9. Liquid-Line Solenoid Valve (LLS)

This device serves two purposes. It is an electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation.

It maintains a column of refrigerant liquid ready for action at next compressor operation cycle. It also provides system protection against off-cycle refrigerant migration.

NOTE: When LLS is used with reciprocating compressors, Compressor Start Assist - Capacitor and Relay is required.

Usage Guideline:

Required in air conditioner long line applications with a piston indoor metering device to prevent off cycle refrigerant migration. A hard shut off TXV can be used instead of LLS in single flow air conditioner applications. See Long Line Application Guideline.

10. Low-Ambient Pressure Switch

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch or Motor Master® - Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

11. MotorMaster®-Low-Ambient Controller

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 ± 5.5°C).

Usage Guideline:

A Motor Master® - Low-Ambient Controller or Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

12. Outdoor Air Temperature Sensor

Designed for use with Carrier Thermostats listed in this publication. The device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

13. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Usage Guideline:

Suggested when unit is installed closer than 15 ft (4.57 m) to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft (3.05 m) apart.

14. Thermostatic Expansion Valve (TXV) Single-Flow

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.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist - Capacitor and Relay is required.

Usage Guideline:

Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

15. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

NOTE: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.

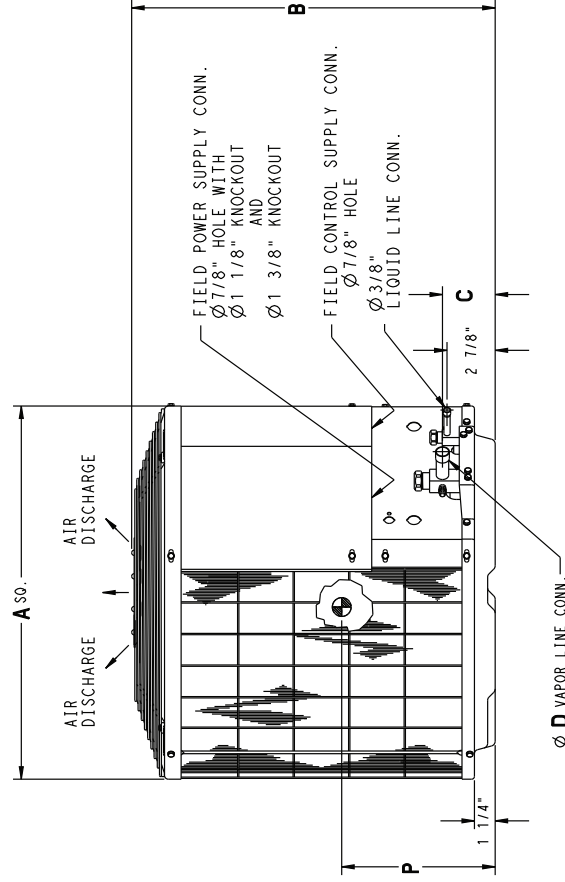
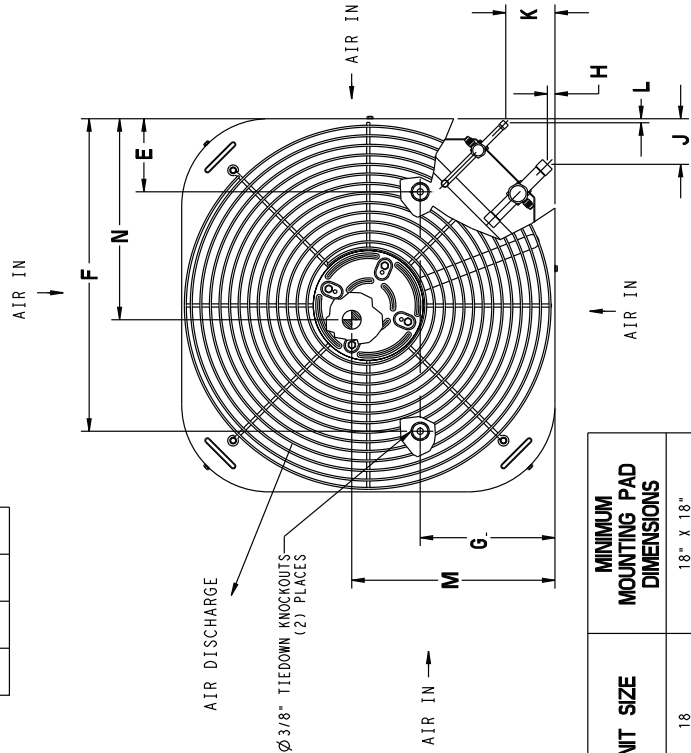
DIMENSIONS (ENGLISH)

UNIT	SERIES	ELECTRICAL CHARACTERISTICS		A	B	C	D	E	F	G	H	J	K	L	M	N	P	SHIPPING WEIGHT		
38CK018	D	X	0	0	18"	23 15/16"	3 3/16"	3 3/16"	5/8"	3"	15"	7 13/16"	7/16"	1 11/16"	1 7/8"	1/4"	9 5/8"	10 1/8"	9 1/2"	120#
38CK024	D	X	0	0	22 1/2"	21 15/16"	3 3/16"	3 3/16"	5/8"	3 11/16"	18 1/8"	7/16"	2 3/4"	2 15/16"	1/4"	11 3/4"	12 1/8"	10 3/4"	131#	
38CK030	D	X	0	0	22 1/2"	25 15/16"	3 3/16"	3/4"	3/4"	3 11/16"	18 1/8"	7/16"	2 3/4"	2 15/16"	1/4"	11 3/4"	12 1/8"	11 1/2"	140#	
38CK036	D	X	X	0	22 1/2"	33 15/16"	3 3/16"	3/4"	3/4"	3 11/16"	18 1/8"	7/16"	2 3/4"	2 15/16"	1/4"	11 3/4"	12 1/8"	15"	153#	
38CK042	D	0	X	0	22 1/2"	33 15/16"	3 1/4"	7/8"	7/8"	3 11/16"	18 1/8"	7/16"	2 3/4"	2 15/16"	1/4"	11 3/4"	12 1/8"	15"	175#	
38CK048	C	X	X	0	30"	27 15/16"	3 1/4"	7/8"	7/8"	6 1/2"	23 1/2"	7/16"	2 3/4"	2 15/16"	1/4"	16"	14 1/2"	14"	215#	
38CK060	C	0	X	0	30"	39 15/16"	3 1/4"	7/8"	7/8"	6 1/2"	23 1/2"	7/16"	2 3/4"	2 15/16"	1/4"	16"	14 1/2"	16"	220#	

230-50	400-3-50	.	.
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X = YES
0 = NO

- NOTES:
- ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
 - MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
 - SERIES DESIGNATION IS THE 13TH POSITION OF THE UNIT MODEL NUMBER.
 - CENTER OF GRAVITY



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18	18" X 18"
24, 30, 36, 42	22 1/2" X 22 1/2"
48, 60	30" X 30"

38CKC

38CKC

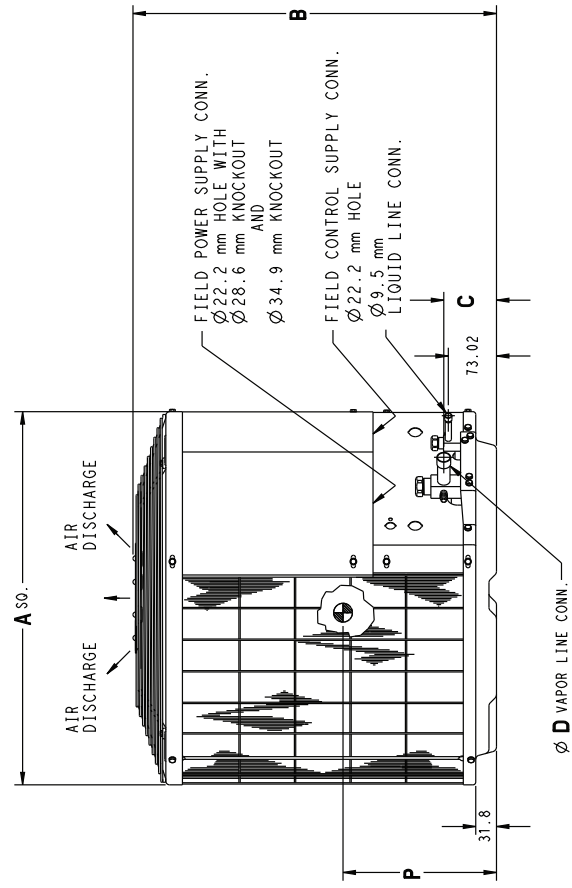
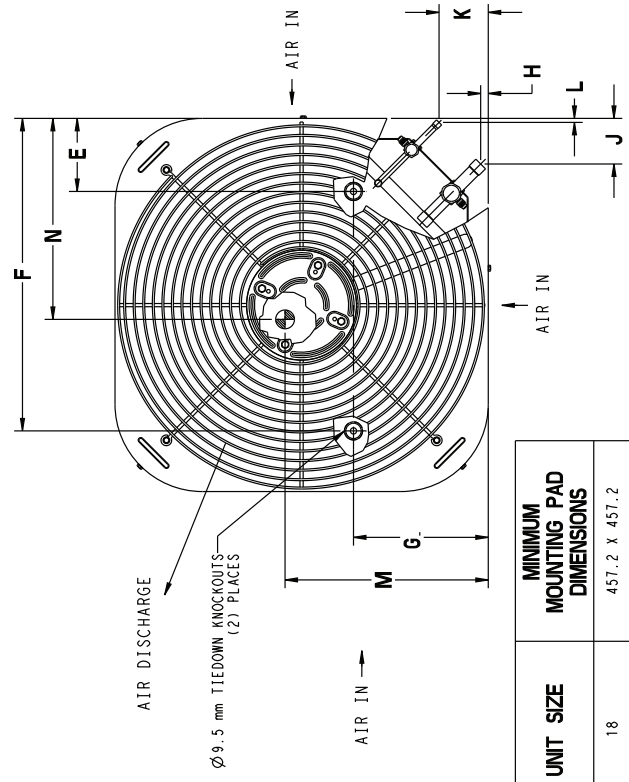
DIMENSIONS (S.I.)

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	SHIPPING WEIGHT (kg)
38CKC018	D	X 0 0 0	457.2	608.0	81.0	15.9	76.2	381.0	198.4	11.1	42.9	47.6	6.3	244.5	257.0	241.3	54.5
38CKC024	D	X 0 0 0	571.5	557.2	81.0	15.9	93.7	460.4	206.4	11.1	69.8	74.6	6.3	298.4	308.0	273.1	59.4
38CKC030	D	X 0 0 0	571.5	658.8	81.0	19.1	93.7	460.4	206.4	11.1	69.8	74.6	6.3	298.4	308.0	292.1	63.6
38CKC036	D	X X 0 0	571.5	862.0	81.0	19.1	93.7	460.4	206.4	11.1	69.8	74.6	6.3	298.4	308.0	381.0	69.4
38CKC042	D	O X 0 0	571.5	862.0	82.6	22.2	93.7	460.4	206.4	11.1	69.8	74.6	6.3	298.4	308.0	381.0	79.5
38CKC048	C	X X 0 0	762.0	709.6	82.6	22.2	165.1	596.9	254.0	11.1	69.8	74.6	6.3	406.4	368.0	355.6	97.5
38CKC060	C	O X 0 0	762.0	1014.4	82.6	22.2	165.1	596.9	254.0	11.1	69.8	74.6	6.3	406.4	368.0	406.4	99.8

NOTES:
 1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT.
 1. 48" ABOVE UNIT - 6" ON SIDE 12" ON REMAINING SIDE,
 AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
 2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING
 MODE IS 55°F, MAX. 125°F.
 3. SERIES DESIGNATION IS THE 13TH POSITION OF THE
 UNIT MODEL NUMBER.
 4. CENTER OF GRAVITY

X = YES
 O = NO

230-450	400-350
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UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18	457.2 X 457.2
24, 30, 36, 42	571.5 X 571.5
48, 60	762.0 X 762.0

ELECTRICAL DATA

UNIT SIZE - VOLTAGE SERIES	V/PH	OPERATING 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 BKR AMPS
		MAX	MIN	LRA	RLA						
018-7D	230-1	253	207	55.0	9.9	0.80	13.2	14	59/56	18.0/17.1	20
024-7D				68.0	11.6	0.52	15.0	14	53/50	16.2/15.2	25
030-7D				75.1	12.1	0.52	15.6	14	49/47	14.9/14.3	25
036-7D				94.0	17.7	0.52	22.6	12	55/52	16.8/15.8	35
048-7C				150.0	25.8	1.60	33.6	10	91/87	27.7/26.5	50
036-9D	400-3	440	360	42.0	6.4	0.30	8.3	14	202/192	61.8/58.7	15
042-9D				58.0	7.1	0.70	9.6	14	202/192	61.8/58.7	15
048-9C				63.0	7.9	0.70	10.7	14	165/157	50.3/47.9	15
060-9C				74.0	9.0	0.70	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 (NFPA 70).

The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60° C (140° F) conductors, per the NEC (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 (NFPA 70).

FLA — Full Load Amps

LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

NOTES:

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

COMBINATION RATINGS*

Outdoor Unit Size— Voltage, Series	Indoor Model	Nominal Airflow		Cooling @ 95° F (35° C)					Cooling @ 115° F (46° C)		
				Capacity		Power	Efficiency		Capacity		Power
		CFM	L/s	BTUH	kW	kW	W/W	EER	BTUH	kW	kW
38CKC018-X-7D	FB4BSF018	600	283	18000	5.27	2.00	2.64	9.00	14600	4.28	2.25
	FB4BSF024	600	283	19000	5.57	2.11	2.64	9.00	15476	4.53	2.39
	F33QX018	562	265	19200	5.63	2.06	2.72	9.30	15622	4.58	2.32
	FS3QX024	651	307	20200	5.92	2.10	2.81	9.60	16352	4.79	2.36
38CKC024-X-7D	FB4BSF024	800	377	24000	7.03	2.67	2.64	9.00	19500	5.71	3.00
	FB4BSF030	800	377	24800	7.27	2.76	2.64	9.00	20085	5.88	2.09
	FS3QX024	651	307	23600	6.91	2.65	2.61	8.90	19111	5.60	2.97
	FS3QX030	848	400	25400	7.44	2.79	2.67	9.10	20670	6.06	3.15
38CKC030-X-7D	FB4BSF030	1000	472	29000	8.50	3.22	2.64	9.00	24400	7.15	3.59
	FB4BSF036	1000	472	29800	8.73	3.35	2.61	8.90	25132	7.36	3.73
	FS3QX030	937	442	28200	8.26	3.17	2.61	8.90	23668	6.93	3.52
	FS3QX036	1076	508	28800	8.44	3.39	2.49	8.50	24156	7.08	3.77
38CKC036-X-7D,9D	FB4BSF036	1200	566	35000	10.25	3.89	2.64	9.00	29100	8.53	4.28
	FB4BS(F,B)042	1200	566	35600	10.43	3.96	2.64	9.00	29682	8.70	4.37
	FS3QX036	1076	508	33000	9.67	3.75	2.58	8.80	27354	8.01	4.11
	FS3QX042	1126	531	34200	10.02	3.68	2.72	9.30	28518	8.36	4.07
38CKC042-X-9D	FB4BS(F,B)042	1400	660	39000	11.43	4.33	2.64	9.00	33400	9.79	5.14
	FB4BS(F,B)048	1400	660	40000	11.72	4.21	2.78	9.50	34402	10.08	5.29
	FS3QX042	1277	602	37200	10.90	3.84	2.84	9.70	32732	9.59	4.73
	FS3QX048	1477	697	38500	11.28	3.74	3.02	10.30	34736	10.18	4.63
38CKC048-X-7C,9C	FB4BS(F,B)048	1600	755	47000	13.77	5.22	2.64	9.00	44700	13.10	6.39
	FB4BS(F,B)060	1600	755	48500	14.21	5.39	2.64	9.00	46041	13.49	6.58
	FS3QX048	1477	697	46000	13.48	4.79	2.81	9.60	43806	12.84	5.88
	FS3QX060	1629	768	49000	14.36	5.05	2.84	9.70	46488	13.62	6.20
38CKC060-X-9C	FB4BS(F,B)060	1850	873	60000	17.58	6.67	2.64	9.00	54300	15.91	7.76
	FB4BSB070	1850	873	61000	17.87	6.78	2.64	9.00	55386	16.23	7.92
	FS3QX060	2025	955	58500	17.14	6.16	2.78	9.50	55386	16.23	7.14

* 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.

EER — Energy Efficiency Ratio

kW — Kilowatts

BTUH — BTU/Hr

DETAILED COOLING CAPACITIES (ENGLISH)

INDOOR COIL AIR		CONDENSER ENTERING AIR TEMPERATURES ° F																		
		75			85			95			105			115			125			
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	
CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
38CKC018-7D OUTDOOR SECTION WITH FB4BSF018 INDOOR SECTION																				
57	57	17.33	17.33	16.09	16.09	14.82	14.82	1.85	1.85	13.59	13.59	12.37	12.37	1.97	1.97	11.19	11.19	2.10	2.10	2.23
62	62	18.66	15.89	17.15	14.99	15.60	14.05	1.88	1.88	14.05	13.12	12.57	12.18	1.99	1.99	11.20	11.20	2.11	2.11	2.23
67	67	20.35	13.51	19.10	12.92	17.57	12.14	1.96	1.96	15.90	11.30	14.26	10.48	2.08	2.08	12.64	9.68	2.20	2.20	2.32
72	72	21.52	10.91	20.72	10.58	19.48	10.06	2.02	2.02	17.94	9.40	16.23	8.65	2.17	2.17	14.50	7.93	2.32	2.32	2.44
57	57	18.15	18.15	16.87	16.87	15.55	15.55	1.90	1.90	14.24	14.24	12.96	12.96	2.03	2.03	11.70	11.70	2.16	2.16	2.29
62	62	19.12	16.88	17.64	16.01	16.07	15.03	1.93	1.93	14.47	14.01	12.97	12.97	2.04	2.04	11.70	11.70	2.16	2.16	2.29
67	67	20.66	14.08	19.52	13.62	18.00	12.88	2.00	2.00	16.30	12.02	14.60	11.17	2.13	2.13	12.92	10.35	2.25	2.25	2.37
72	72	21.70	11.15	20.98	10.91	19.83	10.46	2.05	2.05	18.32	9.84	16.62	9.10	2.21	2.21	14.84	8.36	2.37	2.37	2.50
57	57	18.79	18.79	17.53	17.53	16.18	16.18	1.96	1.96	14.80	14.80	13.46	13.46	2.08	2.08	12.15	12.15	2.21	2.21	2.35
62	62	19.46	17.75	18.02	16.92	16.45	15.89	1.97	1.97	14.83	14.83	13.46	13.46	2.08	2.08	12.14	12.14	2.21	2.21	2.35
67	67	20.85	14.56	19.81	14.23	18.32	13.55	2.03	2.03	16.63	12.70	14.86	11.82	2.18	2.18	13.15	10.96	2.29	2.29	2.41
72	72	21.81	11.36	21.13	11.18	20.06	10.80	2.08	2.08	18.60	10.23	16.92	9.53	2.24	2.24	15.09	8.76	2.41	2.41	2.54
Indoor Model Capacity																				
*FB4BSF018																				
FB4BSF024																				
FS3QX018																				
FS3QX024																				
CONDENSER ENTERING AIR TEMPERATURES ° F																				
INDOOR COIL AIR		75			85			95			105			115			125			
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	
		CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
38CKC024-7D OUTDOOR SECTION WITH FB4BSF024 INDOOR SECTION																				
57	57	23.29	23.29	21.63	21.63	19.95	19.95	2.42	2.42	18.31	18.31	16.72	16.72	2.58	2.58	15.16	15.16	2.75	2.75	2.93
62	62	24.99	21.35	22.94	20.11	20.89	18.87	2.47	2.47	18.87	17.65	16.95	16.45	2.62	2.62	15.17	15.17	2.77	2.77	2.93
67	67	27.57	18.36	25.54	17.34	23.39	16.24	2.62	2.62	21.19	15.13	19.05	14.06	2.78	2.78	17.00	13.04	2.93	2.93	3.09
72	72	29.71	15.05	28.01	14.32	26.01	13.47	2.72	2.72	23.87	12.55	21.63	11.59	2.92	2.92	19.40	10.64	3.12	3.12	3.30
57	57	24.48	24.48	22.72	22.72	20.96	20.96	2.51	2.51	19.22	19.22	17.53	17.53	2.67	2.67	15.90	15.90	2.85	2.85	3.03
62	62	25.70	22.84	23.61	21.57	20.26	19.46	2.54	2.54	19.46	18.94	17.54	17.54	2.69	2.69	15.90	15.90	2.85	2.85	3.03
67	67	28.18	19.35	26.19	18.40	24.00	17.31	2.67	2.67	21.71	16.15	19.50	15.04	2.85	2.85	17.38	13.98	3.00	3.00	3.16
72	72	30.11	15.54	28.49	14.88	26.54	14.07	2.77	2.77	24.40	13.18	22.14	12.24	2.97	2.97	19.85	11.26	3.18	3.18	3.38
57	57	25.44	25.44	23.64	23.64	21.82	21.82	2.60	2.60	20.00	20.00	18.22	18.22	2.76	2.76	16.51	16.51	2.93	2.93	3.12
62	62	26.29	24.24	24.18	22.91	22.07	21.52	2.62	2.62	20.01	20.01	18.22	18.22	2.76	2.76	16.51	16.51	2.93	2.93	3.12
67	67	28.61	20.26	26.67	19.38	24.48	18.32	2.72	2.72	22.17	17.16	19.86	15.99	2.91	2.91	17.68	14.88	3.07	3.07	3.23
72	72	30.39	15.97	28.82	15.37	26.92	14.62	2.81	2.81	24.79	13.76	22.54	12.84	3.02	3.02	20.22	11.88	3.23	3.23	3.43
Indoor Model Capacity																				
*FB4BSF024																				
FB4BSF030																				
FS3QX024																				
FS3QX030																				

DETAILED COOLING CAPACITIES (ENGLISH) CONTINUED

INDOOR COIL AIR		CONDENSER ENTERING AIR TEMPERATURES ° F																	
		75			85			95			105			115			125		
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**
CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	
38CKC030-7D OUTDOOR SECTION WITH FB4BSF030 INDOOR SECTION																			
57	875	28.11	28.11	2.60	26.50	2.79	24.83	24.83	2.97	23.17	23.17	3.15	21.51	21.51	3.34	19.84	19.84	3.52	18.84
62		29.54	26.22	2.65	27.55	2.84	25.52	23.93	3.00	23.48	22.75	3.17	21.52	21.52	3.34	19.84	19.84	3.52	18.84
67		32.55	22.37	2.74	30.51	2.95	28.39	20.40	3.16	26.15	19.34	3.34	23.92	18.31	3.51	21.74	17.30	3.68	17.30
72		35.31	18.21	2.82	33.48	3.05	31.42	16.64	3.27	29.23	15.76	3.50	26.90	14.83	3.71	24.54	13.87	3.92	13.87
57	1000	29.43	29.43	2.68	27.73	2.89	26.01	26.01	3.08	24.23	24.23	3.26	22.48	22.48	3.45	20.73	20.73	3.64	19.84
62		30.32	28.08	2.71	28.30	2.91	26.27	25.66	3.10	24.24	24.24	3.26	22.47	22.47	3.45	20.73	20.73	3.64	19.84
67		33.22	23.68	2.79	31.17	3.01	29.00	21.76	3.22	26.70	20.68	3.43	24.40	19.61	3.59	22.16	18.57	3.76	18.57
72		35.81	18.89	2.87	34.03	3.10	31.98	17.44	3.34	29.77	16.57	3.56	27.40	15.65	3.78	25.00	14.71	3.99	14.71
57	1125	30.50	30.50	2.75	28.76	2.96	26.98	26.98	3.18	25.12	25.12	3.36	23.28	23.28	3.55	21.46	21.46	3.75	20.73
62		30.96	29.76	2.76	28.94	2.97	26.98	26.98	3.18	25.12	25.12	3.36	23.27	23.27	3.55	21.46	21.46	3.75	20.73
67		33.71	24.89	2.84	31.67	3.06	29.46	23.04	3.28	27.15	21.98	3.49	24.78	20.85	3.66	22.49	19.76	3.83	19.76
72		36.14	19.49	2.92	34.40	3.16	32.37	18.16	3.39	30.15	17.32	3.62	27.78	16.43	3.84	25.32	15.48	4.05	15.48
38CKC036-7D, 9D OUTDOOR SECTION WITH FB4BSF036 INDOOR SECTION																			
CONDENSER ENTERING AIR TEMPERATURES ° F																			
Capacity																			
Power																			
*FB4BSF030																			
1.00																			
FB4BSF036																			
1.03																			
FS3QX030																			
0.97																			
FS3QX036																			
0.99																			
1.05																			
38CKC036-7D, 9D OUTDOOR SECTION WITH FB4BSF036 INDOOR SECTION																			
CONDENSER ENTERING AIR TEMPERATURES ° F																			
Capacity																			
Power																			
*FB4BSF036																			
1.00																			
FB4BS(FB)036																			
1.02																			
FS3QX036																			
0.94																			
FS3QX042																			
0.98																			
1.02																			
0.96																			
0.95																			

See notes on page 13



38CKC

DETAILED COOLING CAPACITIES (ENGLISH) CONTINUED

INDOOR COIL AIR		CONDENSER ENTERING AIR TEMPERATURES ° F																				
		75			85			95			105			115			125					
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**			
CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†			
38CKC042-9D OUTDOOR SECTION WITH FB4BSF042 INDOOR SECTION																						
57		38.28	38.28	3.32	36.35	34.27	34.27	4.08	32.14	32.14	4.49	29.96	29.96	4.91	27.73	27.73	5.30	27.73	27.73	5.30		
62	1225	39.51	36.24	3.35	34.85	33.36	33.36	4.11	32.37	31.78	4.50	29.96	29.96	4.91	27.73	27.73	5.30	27.73	27.73	5.30		
67		43.15	30.58	3.45	40.83	28.23	28.23	4.25	35.56	26.90	4.65	32.86	32.86	5.05	30.04	24.23	5.62	30.04	24.23	5.62		
72		46.71	24.56	3.55	44.54	42.09	22.69	4.35	39.38	21.60	4.77	36.55	20.46	5.19	33.67	19.30	5.62	33.67	19.30	5.62		
57		39.74	39.74	3.43	37.73	35.57	35.57	4.22	33.34	33.34	4.62	31.14	31.14	5.03	28.81	28.81	5.43	28.81	28.81	5.43		
62	1400	40.37	38.65	3.45	38.10	35.61	35.61	4.22	33.33	33.33	4.62	31.13	31.13	5.03	28.81	28.81	5.43	28.81	28.81	5.43		
67		43.87	32.39	3.53	41.54	31.30	30.09	4.33	36.17	28.73	4.75	33.40	27.37	5.14	30.53	25.96	5.52	30.53	25.96	5.52		
72		47.28	25.52	3.64	45.12	24.70	23.74	4.43	39.98	22.69	4.85	37.07	21.55	5.26	34.14	20.38	5.68	34.14	20.38	5.68		
57		40.92	40.92	3.53	38.89	36.68	36.68	4.34	34.39	34.39	4.74	32.10	32.10	5.14	29.70	29.70	5.54	29.70	29.70	5.54		
62	1575	41.12	40.68	3.53	38.91	36.67	36.67	4.34	34.38	34.38	4.74	32.09	32.09	5.14	29.69	29.69	5.54	29.69	29.69	5.54		
67		44.39	34.07	3.61	42.05	31.83	31.83	4.41	36.65	30.48	4.82	33.81	29.05	5.23	30.90	27.58	5.61	30.90	27.58	5.61		
72		47.68	26.39	3.72	45.51	24.71	24.71	4.51	40.39	23.69	4.93	37.44	22.58	5.34	34.48	21.41	5.75	34.48	21.41	5.75		
		Indoor Model			Capacity			Capacity			Capacity			Capacity			Capacity			Power		
		*FB4BS(FB0042)			1.00			1.00			1.00			1.00			1.00			1.00		
		FB4BS(FB)048			1.03			1.03			1.03			1.03			1.03			1.03		
		FS3QX042			0.95			0.95			0.95			0.95			0.95			0.95		
		FS3QX048			0.99			0.99			0.99			0.99			0.99			0.99		
38CKC048-7C, 9C OUTDOOR SECTION WITH FB4BSF048 INDOOR SECTION																						
INDOOR COIL AIR		CONDENSER ENTERING AIR TEMPERATURES ° F																				
		75			85			95			105			115			125					
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**			
CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†			
57		40.95	40.95	3.97	40.87	40.63	40.63	4.88	40.14	40.14	5.41	39.38	39.38	5.99	38.29	38.29	6.61	38.29	38.29	6.61		
62	1400	42.79	38.14	4.03	42.41	38.94	38.94	4.94	40.87	39.08	5.45	39.66	39.66	6.00	38.29	38.29	6.61	38.29	38.29	6.61		
67		47.02	32.49	4.15	46.74	32.87	32.87	5.12	45.20	33.14	5.69	43.89	33.06	6.26	42.17	32.85	6.86	42.17	32.85	6.86		
72		50.91	26.36	4.28	51.08	26.72	26.72	5.28	50.02	26.89	5.86	48.89	26.74	6.49	47.26	26.41	7.17	47.26	26.41	7.17		
57		42.73	42.73	4.09	42.65	42.37	42.37	5.04	41.86	41.86	5.58	41.05	41.05	6.16	39.91	39.91	6.79	39.91	39.91	6.79		
62	1600	43.75	40.63	4.12	43.47	41.35	41.35	5.07	41.88	41.88	5.58	41.04	41.04	6.16	39.91	39.91	6.79	39.91	39.91	6.79		
67		47.90	34.37	4.25	47.67	34.90	34.90	5.22	46.06	35.38	5.79	44.70	35.34	6.39	42.93	35.17	6.99	42.93	35.17	6.99		
72		51.59	27.35	4.37	51.85	27.85	27.85	5.38	50.86	28.22	5.96	49.70	28.14	6.59	48.04	27.87	7.27	48.04	27.87	7.27		
57		44.20	44.20	4.20	44.13	43.82	43.82	5.19	43.28	43.28	5.74	42.44	42.44	6.32	41.26	41.26	6.95	41.26	41.26	6.95		
62	1800	44.51	42.90	4.21	44.40	43.84	43.84	5.19	43.27	43.27	5.74	42.43	42.43	6.32	41.25	41.25	6.95	41.25	41.25	6.95		
67		48.56	36.14	4.33	48.37	36.84	36.84	4.80	46.74	37.50	5.88	45.35	37.54	6.50	43.52	37.38	7.11	43.52	37.38	7.11		
72		52.08	28.26	4.45	52.39	28.88	28.88	5.47	51.48	29.48	6.05	50.31	29.47	6.68	48.63	29.27	7.37	48.63	29.27	7.37		
		Indoor Model			Capacity			Capacity			Capacity			Capacity			Capacity			Power		
		*FB4BS(FB0048)			1.00			1.00			1.00			1.00			1.00			1.00		
		FB4BS(FB)060			1.03			1.03			1.03			1.03			1.03			1.03		
		FS3QX048			0.98			0.98			0.98			0.98			0.98			0.98		
		FS3QX060			1.04			1.04			1.04			1.04			1.04			1.04		

DETAILED COOLING CAPACITIES (ENGLISH) CONTINUED

INDOOR COIL AIR		CONDENSER ENTERING AIR TEMPERATURES ° F																		
		75			85			95			105			115			125			
		Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	Capacity† (MBtuh)		Total Sys. kW**	
CFM	(F) EWB	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total		
38CKC060-9C OUTDOOR SECTION WITH FB4BSF060 INDOOR SECTION																				
57		55.30	55.30	5.37	53.65	53.65	5.85	51.82	49.86	49.86	6.34	6.88	47.74	47.74	47.74	47.74	7.41	7.41	45.40	45.40
62		57.86	51.77	5.40	55.67	50.88	5.93	49.85	48.76	48.76	6.40	6.91	47.98	47.98	47.44	47.44	7.42	7.42	45.39	45.39
67		63.31	43.73	5.52	61.68	43.35	6.03	42.49	56.49	41.47	6.59	7.14	53.61	40.42	40.42	53.61	7.65	7.65	50.38	39.25
72		67.26	34.77	5.64	66.88	34.94	6.17	34.55	62.99	33.80	6.72	7.29	60.24	32.86	32.86	60.24	7.87	7.87	57.10	31.78
57		56.88	56.88	5.46	55.19	55.19	5.99	53.27	53.27	53.27	6.48	7.00	49.14	49.14	49.14	49.14	7.54	7.54	46.73	46.73
62		58.75	54.01	5.49	56.59	53.18	6.03	52.11	51.61	50.91	6.51	7.02	49.13	49.13	49.13	49.13	7.54	7.54	46.73	46.73
67		63.82	45.08	5.60	62.42	44.97	6.12	44.97	57.23	43.24	6.67	7.24	54.30	42.20	42.20	54.30	7.76	7.76	51.02	41.02
72		67.59	35.40	5.74	67.37	35.75	6.26	35.49	63.70	34.86	6.81	7.37	60.93	33.95	33.95	60.93	7.95	7.95	57.77	32.90
57		58.23	58.23	5.55	56.58	56.58	6.09	54.62	52.59	52.59	6.60	7.13	50.37	50.37	50.37	50.37	7.66	7.66	47.92	47.92
62		59.49	56.09	5.57	57.43	55.33	6.10	54.96	52.59	52.59	6.61	7.13	50.36	50.36	50.36	50.36	7.66	7.66	47.92	47.92
67		64.22	46.38	5.69	63.00	46.51	6.20	46.51	57.86	44.98	6.75	7.32	54.87	43.90	43.90	54.87	7.86	7.86	51.56	42.73
72		67.83	35.98	5.82	67.72	36.48	6.35	36.35	64.25	35.84	6.90	7.46	61.47	34.98	34.98	61.47	8.03	8.03	58.30	33.96

Indoor Model		Capacity		Power	
*FB4BS(FB0048		1.00		1.00	
FB4BSF070		1.02		1.02	
FS3GX060		0.98		0.92	

NOTE: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-08. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* Tested Combination

† 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).

** Unit Total System kW is total of indoor and outdoor unit kilowatts.

EWB – Entering Wet Bulb



DETAILED COOLING CAPACITIES (S.I.)

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																	
L/S	(C) EWB	24			29			35			41			46			52		
		Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
38CKC018-7D OUTDOOR SETION WITH FB4BSF018 INDOOR SECTION																			
14		5.08	5.08	4.71	4.71	4.34	4.34	3.98	3.98	3.63	3.63	3.28	3.28	2.10	2.10	3.28	3.28	2.23	2.23
17		5.47	4.66	4.39	4.39	4.12	4.12	3.84	3.84	3.57	3.57	3.28	3.28	2.11	2.11	3.28	3.28	2.23	2.23
19		5.96	3.96	3.78	3.78	3.56	3.56	3.31	3.31	3.07	3.07	2.84	2.84	2.20	2.20	3.70	2.84	2.32	2.32
22		6.30	3.20	3.10	3.10	2.95	2.95	2.75	2.75	2.53	2.53	2.32	2.32	2.32	2.32	4.25	2.32	2.44	2.44
14		5.32	5.32	4.94	4.94	4.56	4.56	4.17	4.17	3.80	3.80	3.43	3.43	2.16	2.16	3.43	3.43	2.29	2.29
17		5.60	4.95	4.69	4.69	4.40	4.40	4.11	4.11	3.80	3.80	3.43	3.43	2.16	2.16	3.43	3.43	2.29	2.29
19		6.05	4.12	3.99	3.99	3.77	3.77	3.52	3.52	3.27	3.27	2.99	2.99	2.25	2.25	3.79	3.03	2.37	2.37
22		6.36	3.27	3.20	3.20	3.06	3.06	2.88	2.88	2.67	2.67	2.45	2.45	2.37	2.37	4.35	2.45	2.50	2.50
14		5.51	5.51	5.14	5.14	4.74	4.74	4.34	4.34	3.94	3.94	3.56	3.56	2.21	2.21	3.56	3.56	2.35	2.35
17		5.70	5.20	4.96	4.96	4.66	4.66	4.34	4.34	3.94	3.94	3.56	3.56	2.21	2.21	3.56	3.56	2.35	2.35
19		6.11	4.27	4.17	4.17	3.97	3.97	3.72	3.72	3.46	3.46	3.21	3.21	2.29	2.29	3.85	3.21	2.41	2.41
22		6.39	3.33	3.27	3.27	3.16	3.16	2.98	2.98	2.79	2.79	2.57	2.57	2.41	2.41	4.42	2.57	2.54	2.54
		Indoor Model																	
		Capacity																	
		*FB4BSF018																	
		FB4BSF024																	
		FS3QX018																	
		FS3QX024																	

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																	
L/S	(C) EWB	24			29			35			41			46			52		
		Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**	Capacityt (kW)		Sys. Power kW**
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
38CKC024-7D OUTDOOR SETION WITH FB4BSF024 INDOOR SECTION																			
14		6.82	6.82	6.34	6.34	5.85	5.85	5.36	5.36	4.90	4.90	4.44	4.44	2.75	2.75	4.44	4.44	2.93	2.93
17		7.32	6.26	5.89	5.89	6.12	5.53	5.17	5.17	4.82	4.82	4.44	4.44	2.77	2.77	4.44	4.44	2.93	2.93
19		8.08	5.38	5.08	5.08	4.76	4.76	4.43	4.43	4.12	4.12	3.82	3.82	2.93	2.93	4.98	3.82	3.09	3.09
22		8.70	4.41	4.20	4.20	3.95	3.95	3.68	3.68	3.40	3.40	3.12	3.12	3.12	3.12	5.68	3.12	3.30	3.30
14		7.17	7.17	6.66	6.66	6.14	6.14	5.63	5.63	5.14	5.14	4.66	4.66	2.85	2.85	4.66	4.66	3.03	3.03
17		7.53	6.09	5.82	5.82	5.50	5.50	5.17	5.17	4.82	4.82	4.44	4.44	2.85	2.85	4.66	4.66	3.03	3.03
19		8.26	5.67	5.39	5.39	5.07	5.07	4.73	4.73	4.41	4.41	4.10	4.10	3.00	3.00	5.09	4.10	3.16	3.16
22		8.82	4.55	4.36	4.36	4.12	4.12	3.86	3.86	3.59	3.59	3.30	3.30	3.18	3.18	5.82	3.30	3.38	3.38
14		7.45	7.45	6.93	6.93	6.39	6.39	5.86	5.86	5.34	5.34	4.84	4.84	2.93	2.93	4.84	4.84	3.12	3.12
17		7.70	7.10	6.71	6.71	6.47	6.30	6.02	6.02	5.71	5.71	5.34	5.34	2.93	2.93	4.84	4.84	3.12	3.12
19		8.38	5.94	5.68	5.68	5.37	5.37	5.03	5.03	4.69	4.69	4.36	4.36	3.07	3.07	5.18	4.36	3.23	3.23
22		8.90	4.68	4.50	4.50	4.28	4.28	4.03	4.03	3.76	3.76	3.48	3.48	3.23	3.23	5.93	3.48	3.43	3.43
		Indoor Model																	
		Capacity																	
		*FB4BSF024																	
		FB4BSF030																	
		FS3QX024																	
		FS3QX030																	

DETAILED COOLING CAPACITIES (S.I.) CONTINUED

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																		
		24			29			35			41			46			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**		
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†						
		38CKC030-7D OUTDOOR SETION WITH FB4BSF030 INDOOR SECTION																		
415		14	8.24	8.24	2.60	7.76	7.76	2.79	7.28	7.28	2.97	6.79	6.79	3.15	6.30	6.30	3.34	5.81	5.81	3.52
		17	8.66	7.68	2.65	7.35	7.48	2.84	7.01	7.01	3.00	6.88	6.67	3.17	6.30	6.30	3.34	5.81	5.81	3.52
		19	9.54	6.55	2.74	6.27	8.32	2.95	5.98	5.98	3.16	7.66	5.67	3.34	7.01	5.36	3.51	6.37	5.07	3.68
		22	10.34	5.33	2.82	5.12	9.81	3.05	4.88	4.88	3.27	8.56	4.62	3.50	7.88	4.34	3.71	7.19	4.06	3.92
470		14	8.62	8.62	2.68	8.13	8.13	2.89	7.62	7.62	3.08	7.10	7.10	3.26	6.59	6.59	3.45	6.07	6.07	3.64
		17	8.88	8.23	2.71	8.29	7.88	2.91	7.52	7.52	3.10	7.10	7.10	3.26	6.58	6.58	3.45	6.07	6.07	3.64
		19	9.73	6.94	2.79	9.13	6.67	3.01	6.38	6.38	3.22	8.02	6.06	3.49	7.15	5.75	3.59	6.49	5.44	3.76
		22	10.49	5.53	2.87	5.34	9.97	3.10	5.11	5.11	3.34	8.72	4.86	3.56	8.03	4.59	3.78	7.32	4.31	3.99
530		14	8.94	8.94	2.75	8.43	8.43	2.96	7.90	7.90	3.18	7.36	7.36	3.36	6.82	6.82	3.55	6.29	6.29	3.75
		17	9.07	8.72	2.76	8.48	8.35	2.97	7.91	7.91	3.18	7.36	7.36	3.36	6.82	6.82	3.55	6.29	6.29	3.75
		19	9.88	7.29	2.84	9.28	7.04	3.06	6.63	6.75	3.28	7.96	6.44	3.49	7.26	6.11	3.66	6.59	5.79	3.83
		22	10.59	5.71	2.92	10.08	5.54	3.16	5.32	5.32	3.39	8.83	5.07	3.62	8.14	4.81	3.84	7.42	4.53	4.05
		Indoor Model																		
		Capacity																		
		*FB4BSF030																		
		1.00																		
		FB4BSF036																		
		1.03																		
		FS3QX030																		
		0.97																		
		FS3QX036																		
		0.99																		

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																		
		24			29			35			41			46			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**		
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†						
		38CKC036-7D, 9D OUTDOOR SETION WITH FB4BSF036 INDOOR SECTION																		
495		14	10.12	10.12	3.19	9.48	9.48	3.38	8.83	8.83	3.56	8.20	8.20	3.76	7.57	7.57	3.96	6.95	6.95	4.16
		17	10.59	9.51	3.24	9.04	9.04	3.44	8.57	8.57	3.60	8.27	8.10	3.77	7.57	7.57	3.96	6.95	6.95	4.16
		19	11.69	8.10	3.36	10.88	7.71	3.58	10.06	7.31	3.80	9.19	6.89	3.99	8.38	6.49	4.17	7.57	6.10	4.34
		22	12.68	6.57	3.47	11.94	6.27	3.71	11.13	5.94	3.95	10.29	5.59	4.18	9.41	5.23	4.41	8.56	4.89	4.63
565		14	10.57	10.57	3.30	9.90	9.90	3.52	9.22	9.22	3.71	8.55	8.55	3.90	7.89	7.89	4.11	7.24	7.24	4.32
		17	10.86	10.17	3.33	10.07	9.68	3.54	9.28	9.16	3.72	8.54	8.54	3.90	7.89	7.89	4.11	7.24	7.24	4.32
		19	11.92	8.57	3.45	11.10	8.19	3.67	10.25	7.79	3.89	9.37	7.36	4.10	8.53	6.95	4.28	7.70	6.54	4.46
		22	12.84	6.80	3.55	12.12	6.53	3.80	11.31	6.21	4.04	10.46	5.87	4.27	9.57	5.52	4.50	8.69	5.16	4.72
635		14	10.94	10.94	3.40	10.25	10.25	3.63	9.55	9.55	3.85	8.84	8.84	4.04	8.15	8.15	4.25	7.47	7.47	4.46
		17	11.08	10.75	3.42	10.29	10.27	3.63	9.54	9.54	3.85	8.84	8.84	4.04	8.15	8.15	4.25	7.47	7.47	4.46
		19	12.08	9.00	3.53	11.26	8.65	3.75	10.40	8.24	3.98	9.51	7.82	4.19	8.64	7.38	4.38	7.80	6.95	4.56
		22	12.94	7.01	3.62	12.24	6.76	3.88	11.43	6.46	4.12	10.57	6.12	4.36	9.68	5.78	4.59	8.80	5.43	4.81
		Indoor Model																		
		Capacity																		
		*FB4BSF036																		
		1.00																		
		FB4BS(FB)036																		
		1.02																		
		FS3QX036																		
		0.94																		
		FS3QX042																		
		0.98																		

See notes on page 17



DETAILED COOLING CAPACITIES (S.I.) CONTINUED

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																	
		24			29			35			41			46			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†	
38CKC042-9D OUTDOOR SETION WITH FB4BSF042 INDOOR SECTION																			
	14	11.22	11.22	3.32	10.65	10.65	3.70	10.04	10.04	4.08	9.42	9.42	4.49	8.78	8.78	4.91	8.13	8.13	5.30
580	17	11.58	10.62	3.35	10.91	10.21	3.74	10.21	9.78	4.11	9.48	9.31	4.50	8.78	8.78	4.91	8.12	8.12	5.30
	19	12.64	8.96	3.45	11.96	8.63	3.84	11.22	8.27	4.25	10.42	7.88	4.65	9.63	7.50	5.05	7.10	7.10	5.42
	22	13.69	7.20	3.55	13.05	6.94	3.94	12.33	6.65	4.35	11.54	6.33	4.77	10.71	5.99	5.19	9.86	5.65	5.60
	14	11.64	11.64	3.43	11.06	11.06	3.83	10.42	10.42	4.22	9.77	9.77	4.62	9.12	9.12	5.03	8.44	8.44	5.43
660	17	11.83	11.32	3.45	11.16	10.89	3.84	10.43	10.43	4.22	9.77	9.77	4.62	9.12	9.12	5.03	8.44	8.44	5.43
	19	12.86	9.49	3.53	12.17	9.17	3.92	11.43	8.82	4.33	10.60	8.42	4.75	9.79	8.02	5.14	8.94	7.61	5.52
	22	13.85	7.48	3.64	13.22	7.24	4.03	12.50	6.96	4.43	11.71	6.65	4.85	10.86	6.31	5.26	10.00	5.97	5.68
	14	11.99	11.99	3.53	11.40	11.40	3.93	10.75	10.75	4.34	10.08	10.08	4.74	9.40	9.40	5.14	8.70	8.70	5.54
745	17	12.05	11.92	3.53	11.40	11.40	3.93	10.75	10.75	4.34	10.07	10.07	4.74	9.40	9.40	5.14	8.70	8.70	5.54
	19	13.01	9.98	3.61	12.32	9.68	4.00	11.57	9.33	4.41	10.74	8.93	4.82	9.91	8.51	5.23	9.05	8.08	5.61
	22	13.97	7.73	3.72	13.34	7.51	4.11	12.62	7.24	4.51	11.84	6.94	4.93	10.97	6.62	5.34	10.10	6.27	5.75
		Indoor Model																	
		*FB4BS(FB)042																	
		FB4BS(FB)048																	
		FS3QX042																	
		FS3QX048																	

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																	
		24			29			35			41			46			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†	
38CKC048-7C, 9C OUTDOOR SETION WITH FB4BSF048 INDOOR SECTION																			
	14	12.00	12.00	3.97	11.97	11.97	4.40	11.90	11.90	4.88	11.76	11.76	5.41	11.54	11.54	5.99	11.22	11.22	6.61
660	17	12.54	11.17	4.03	12.43	11.32	4.47	12.24	11.41	4.94	11.98	11.45	5.45	11.62	11.43	6.00	11.22	11.22	6.61
	19	13.78	9.52	4.15	13.70	9.63	4.61	13.51	9.69	5.12	13.24	9.71	5.69	12.86	9.69	6.26	12.36	9.62	6.86
	22	14.92	7.72	4.28	14.97	7.83	4.76	14.88	7.88	5.28	14.66	7.88	5.86	14.32	7.83	6.49	13.85	7.74	7.17
	14	12.52	12.52	4.09	12.50	12.50	4.55	12.41	12.41	5.04	12.26	12.26	5.58	12.03	12.03	6.16	11.69	11.69	6.79
755	17	12.82	11.91	4.12	12.74	12.12	4.58	12.55	12.20	5.07	12.27	12.27	5.58	12.03	12.03	6.16	11.69	11.69	6.79
	19	14.04	10.07	4.25	13.97	10.23	4.71	13.77	10.32	5.22	13.50	10.37	5.79	13.10	10.35	6.39	12.58	10.30	6.99
	22	15.12	8.01	4.37	15.19	8.16	4.85	15.12	8.25	5.38	14.90	8.27	5.96	14.56	8.24	6.59	14.08	8.17	7.27
	14	12.95	12.95	4.20	12.93	12.93	4.66	12.84	12.84	5.19	12.68	12.68	5.74	12.43	12.43	6.32	12.09	12.09	6.95
850	17	13.04	12.57	4.21	13.01	12.82	4.67	12.84	12.84	5.19	12.68	12.68	5.74	12.43	12.43	6.32	12.09	12.09	6.95
	19	14.23	10.59	4.33	14.17	10.79	4.80	13.97	10.92	5.31	13.69	10.99	5.88	13.29	11.00	6.50	12.75	10.95	7.11
	22	15.26	8.28	4.45	15.35	8.46	4.94	15.30	8.59	5.47	15.08	8.64	6.05	14.74	8.63	6.68	14.25	8.58	7.37
		Indoor Model																	
		*FB4BS(FB)048																	
		FB4BS(FB)060																	
		FS3QX048																	
		FS3QX060																	

See notes on page 17

DETAILED COOLING CAPACITIES (S.I.) CONTINUED

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES ° C																	
		24			29			35			41			46			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†	
38CK060-9C OUTDOOR SETION WITH FB4BSF060 INDOOR SECTION																			
	14	16.20	16.20	5.37	15.72	15.72	5.85	15.18	15.18	6.34	14.61	14.61	6.88	13.99	13.99	7.41	13.30	13.30	7.94
	17	16.95	15.17	5.40	16.31	14.91	5.93	15.59	14.61	6.40	14.85	14.29	6.91	14.06	13.90	7.42	13.30	13.30	7.94
800	19	18.55	12.81	5.52	18.07	12.70	6.03	17.35	12.45	6.59	16.55	12.15	7.14	15.71	11.84	7.65	14.76	11.50	8.17
	22	19.71	10.19	5.64	19.60	10.24	6.17	19.15	10.12	6.72	18.46	9.90	7.29	17.65	9.63	7.87	16.73	9.31	8.46
	14	16.67	16.67	5.46	16.17	16.17	5.99	15.61	15.61	6.48	15.03	15.03	7.00	14.40	14.40	7.54	13.69	13.69	8.07
	17	17.21	15.83	5.49	16.58	15.58	6.03	15.85	15.27	6.51	15.12	14.92	7.02	14.40	14.40	7.54	13.69	13.69	8.07
875	19	18.70	13.21	5.60	18.29	13.18	6.12	17.58	12.96	6.67	16.77	12.67	7.24	15.91	12.36	7.76	14.95	12.02	8.27
	22	19.81	10.37	5.74	19.74	10.47	6.26	19.32	10.40	6.81	18.66	10.21	7.37	17.85	9.95	7.95	16.93	9.64	8.54
	14	17.06	17.06	5.55	16.58	16.58	6.09	16.00	16.00	6.60	15.41	15.41	7.13	14.76	14.76	7.66	14.04	14.04	8.20
	17	17.43	16.43	5.57	16.83	16.21	6.10	16.10	15.87	6.61	15.41	15.41	7.13	14.76	14.76	7.66	14.04	14.04	8.20
945	19	18.82	13.59	5.69	18.46	13.63	6.20	17.77	13.45	6.75	16.95	13.18	7.32	16.08	12.86	7.86	15.11	12.52	8.37
	22	19.87	10.54	5.82	19.84	10.69	6.35	19.45	10.65	6.90	18.82	10.50	7.46	18.01	10.25	8.03	17.08	9.95	8.62

		Indoor Model		Capacity		Power	
		*FB4BS(FB0048		1.00		1.00	
		FB4BSF070		1.02		1.02	
		FS3QX060		0.98		0.92	

NOTE: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-08. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* Tested combination

† 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 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80° F (27° C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80° F (27° C).

** Unit System Power kW is total of indoor and outdoor unit kilowatts.

EWB – Entering Wet Bulb



38CKC

CONDENSER ONLY RATINGS (ENGLISH)

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38CKC018-7D									
30	TCG	18.60	16.70	15.10	13.50	11.90	10.40	8.80	7.10
	SDT	80.80	89.70	98.20	106.10	113.90	121.90	129.80	137.60
	KW	1.29	1.38	1.42	1.47	1.51	1.53	1.54	1.53
35	TCG	21.30	19.10	17.20	15.50	13.80	12.10	10.50	8.80
	SDT	82.70	91.50	100.10	108.50	116.40	124.20	132.10	139.90
	KW	1.32	1.41	1.50	1.54	1.59	1.62	1.64	1.64
40	TCG	24.60	21.90	19.70	17.70	15.90	14.10	12.30	10.50
	SDT	84.60	93.50	102.10	110.40	118.70	126.70	134.50	142.40
	KW	1.34	1.45	1.54	1.63	1.67	1.71	1.74	1.76
45	TCG	28.80	25.10	22.50	20.20	18.20	16.20	14.30	12.40
	SDT	86.10	95.50	104.20	112.50	120.70	128.90	137.00	144.80
	KW	1.36	1.48	1.59	1.68	1.77	1.80	1.84	1.87
50	TCG	34.40	29.20	25.80	23.10	20.80	18.70	16.60	14.50
	SDT	87.30	97.30	106.30	114.70	122.90	131.00	139.00	147.00
	KW	1.36	1.51	1.63	1.74	1.83	1.92	1.95	1.98
55	TCG	39.90	34.30	29.70	26.50	23.80	21.40	19.10	16.90
	SDT	89.70	99.00	108.30	116.90	125.10	133.20	141.20	149.00
	KW	1.38	1.53	1.67	1.79	1.90	1.99	2.07	2.12
38CKC024-7D									
30	TCG	25.00	22.80	20.60	18.40	16.20	14.00	11.90	9.60
	SDT	87.50	95.00	102.40	109.90	117.50	125.20	132.90	140.50
	KW	1.66	1.74	1.80	1.86	1.91	1.95	1.97	1.97
35	TCG	28.30	25.80	23.50	21.20	18.90	16.60	14.30	12.00
	SDT	90.40	98.10	105.50	112.90	120.40	128.10	135.80	143.40
	KW	1.73	1.84	1.93	1.99	2.05	2.09	2.13	2.15
40	TCG	32.10	29.20	26.60	24.10	21.70	19.20	16.90	14.50
	SDT	93.10	101.10	108.80	116.20	123.60	131.00	138.70	146.30
	KW	1.79	1.92	2.04	2.14	2.19	2.25	2.30	2.33
45	TCG	36.50	33.10	30.10	27.40	24.70	22.10	19.60	17.10
	SDT	95.90	103.90	111.70	119.40	127.00	134.30	141.80	149.40
	KW	1.86	2.00	2.14	2.26	2.37	2.42	2.47	2.52
50	TCG	41.70	37.70	34.30	31.10	28.20	25.30	22.50	19.90
	SDT	98.60	106.70	114.50	122.20	129.90	137.50	145.10	152.70
	KW	1.92	2.08	2.23	2.37	2.49	2.60	2.67	2.73
55	TCG	47.80	43.00	39.00	35.50	32.20	29.10	26.00	23.10
	SDT	101.30	109.50	117.50	125.10	132.80	140.40	147.90	155.50
	KW	1.98	2.16	2.33	2.48	2.62	2.74	2.86	2.96
38CKC030-7D									
30	TCG	28.40	26.20	24.00	21.70	19.30	17.10	14.70	12.10
	SDT	83.40	91.70	100.10	108.50	116.80	125.20	133.30	141.30
	KW	1.88	2.00	2.12	2.23	2.32	2.39	2.44	2.46
35	TCG	31.80	29.40	27.10	24.70	22.20	19.80	17.40	14.80
	SDT	86.10	94.40	102.80	111.00	119.30	127.70	135.90	144.00
	KW	1.96	2.11	2.23	2.35	2.46	2.55	2.62	2.66
40	TCG	35.40	32.90	30.40	27.90	25.30	22.70	20.20	17.60
	SDT	89.10	97.30	105.60	113.90	122.10	130.30	138.60	146.70
	KW	2.03	2.20	2.37	2.49	2.60	2.71	2.80	2.86
45	TCG	39.30	36.70	34.00	31.30	28.60	25.90	23.20	20.50
	SDT	92.30	100.50	108.60	116.90	125.10	133.20	141.40	149.50
	KW	2.11	2.30	2.47	2.64	2.79	2.88	2.99	3.07
50	TCG	43.70	40.70	37.80	35.00	32.10	29.20	26.40	23.60
	SDT	95.80	103.80	111.90	120.10	128.20	136.30	144.40	152.50
	KW	2.19	2.39	2.58	2.76	2.94	3.10	3.20	3.30
55	TCG	48.80	45.20	42.00	38.90	35.90	32.90	29.70	26.80
	SDT	98.80	107.40	115.50	123.50	131.60	139.70	147.60	155.70
	KW	2.26	2.49	2.69	2.89	3.08	3.25	3.41	3.56

KW – Total Power (kW)
SDT – Saturated Temperature Leaving Compressor (°F)
SST – Saturated Temperature Entering Compressor (°F)
TCG – Gross Cooling Capacity (1000 Btuh)

CONDENSER ONLY RATINGS (ENGLISH) (CONT.)

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38CKC036-7D, 9D									
30	TCG	35.60	32.70	29.80	26.90	24.00	21.10	18.20	15.20
	SDT	85.70	93.60	101.60	109.60	117.70	125.90	133.90	141.90
	KW	2.34	2.46	2.58	2.68	2.77	2.84	2.89	2.92
35	TCG	39.90	36.80	33.80	30.70	27.60	24.60	21.60	18.50
	SDT	88.70	96.60	104.60	112.50	120.50	128.60	136.70	144.70
	KW	2.45	2.62	2.74	2.85	2.96	3.05	3.12	3.17
40	TCG	44.50	41.20	38.00	34.80	31.50	28.30	25.20	22.00
	SDT	92.10	99.90	107.70	115.70	123.50	131.60	139.60	147.60
	KW	2.56	2.75	2.93	3.06	3.16	3.27	3.36	3.43
45	TCG	49.80	46.00	42.50	39.10	35.60	32.20	28.90	25.60
	SDT	95.20	103.30	111.10	119.00	126.90	134.70	142.80	150.70
	KW	2.66	2.88	3.07	3.25	3.41	3.51	3.62	3.71
50	TCG	56.20	51.60	47.40	43.70	40.10	36.40	32.90	29.40
	SDT	97.70	106.30	114.60	122.50	130.40	138.10	146.10	154.00
	KW	2.75	3.00	3.23	3.43	3.61	3.78	3.92	4.03
55	TCG	63.60	58.30	53.60	49.30	45.20	41.30	37.20	33.60
	SDT	100.30	109.00	117.30	125.50	133.50	141.50	149.40	157.30
	KW	2.83	3.11	3.36	3.59	3.80	3.99	4.17	4.33
38CKC042-9D									
30	TCG	36.40	34.60	32.60	30.40	28.10	25.60	22.90	19.80
	SDT	82.70	92.10	101.00	110.20	119.40	128.60	137.60	146.40
	KW	1.87	2.20	2.54	2.92	3.33	3.76	4.18	4.57
35	TCG	40.00	38.10	36.00	33.70	31.20	28.70	25.90	22.70
	SDT	85.20	94.20	103.40	112.50	121.60	130.80	139.90	148.60
	KW	1.98	2.29	2.64	3.02	3.44	3.88	4.32	4.73
40	TCG	43.90	41.80	39.60	37.20	34.60	31.90	29.00	25.80
	SDT	87.70	96.80	105.90	115.00	124.00	133.20	142.20	151.00
	KW	2.07	2.41	2.78	3.17	3.57	4.01	4.46	4.90
45	TCG	48.40	45.90	43.40	40.90	38.10	35.30	32.40	29.20
	SDT	90.10	99.40	108.60	117.70	126.70	135.70	144.60	153.20
	KW	2.17	2.52	2.91	3.33	3.74	4.18	4.63	5.08
50	TCG	53.40	50.60	47.90	45.10	42.30	39.20	36.20	33.00
	SDT	92.10	101.50	110.60	119.70	128.70	137.60	146.30	154.90
	KW	2.25	2.61	3.00	3.42	3.87	4.35	4.82	5.27
55	TCG	59.10	55.90	52.90	49.90	46.90	43.60	40.30	37.00
	SDT	94.20	103.60	112.70	121.70	130.60	139.50	148.20	156.70
	KW	2.35	2.71	3.10	3.52	3.97	4.44	4.94	5.45
38CKC048-7C 9C									
30	TCG	46.00	43.40	40.60	37.70	34.80	31.60	28.10	24.30
	SDT	81.70	90.60	99.60	108.60	117.70	126.80	135.80	144.60
	KW	2.66	2.95	3.28	3.64	4.04	4.46	4.89	5.32
35	TCG	50.90	48.10	45.20	42.20	39.20	35.90	32.40	28.50
	SDT	84.10	93.00	101.90	110.80	120.00	129.10	138.10	146.90
	KW	2.79	3.10	3.42	3.79	4.20	4.64	5.09	5.55
40	TCG	56.20	53.30	50.20	47.00	43.80	40.50	36.90	32.90
	SDT	86.60	95.40	104.40	113.30	122.40	131.50	140.50	149.30
	KW	2.90	3.23	3.61	3.98	4.40	4.85	5.31	5.79
45	TCG	62.10	58.80	55.60	52.10	48.70	45.20	41.50	37.50
	SDT	89.50	98.20	107.00	115.80	124.90	134.10	143.10	152.00
	KW	3.04	3.38	3.75	4.16	4.63	5.11	5.59	6.08
50	TCG	68.40	64.90	61.40	57.80	53.90	50.30	46.50	42.40
	SDT	92.60	101.20	109.90	118.80	127.60	136.70	145.80	154.70
	KW	3.19	3.53	3.91	4.34	4.80	5.32	5.88	6.44
55	TCG	75.80	71.60	67.70	63.80	59.80	55.80	51.90	47.80
	SDT	95.20	104.20	113.10	121.80	130.60	139.60	148.50	157.20
	KW	3.32	3.69	4.09	4.52	4.99	5.52	6.08	6.67

38CKC

KW – Total Power (kW)
SDT – Saturated Temperature Leaving Compressor (°F)
SST – Saturated Temperature Entering Compressor (°F)
TCG – Gross Cooling Capacity (1000 Btuh)

CONDENSER ONLY RATINGS (ENGLISH) (CONT.)

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38CKC060-9C									
30	TCG	58.80	55.50	52.00	48.30	44.40	40.30	35.80	30.80
	SDT	82.90	92.20	101.00	109.80	118.70	127.50	136.20	144.70
	KW	3.29	3.79	4.25	4.77	5.34	5.93	6.51	7.07
35	TCG	65.80	61.70	58.00	54.10	50.10	45.90	41.30	36.30
	SDT	84.40	94.40	103.60	112.30	121.10	129.90	138.70	147.30
	KW	3.34	3.90	4.44	4.95	5.54	6.16	6.78	7.40
40	TCG	73.90	68.90	64.60	60.20	56.00	51.70	47.00	42.00
	SDT	85.90	96.00	105.60	114.90	123.60	132.50	141.30	149.90
	KW	3.39	3.97	4.57	5.19	5.76	6.41	7.07	7.74
45	TCG	83.70	81.90	72.10	67.50	62.70	58.20	53.50	48.40
	SDT	87.20	95.70	107.30	116.60	125.70	134.50	143.30	151.90
	KW	3.43	3.91	4.66	5.31	6.01	6.68	7.37	8.06
50	TCG	95.90	87.00	80.90	75.60	70.40	65.40	60.60	55.40
	SDT	88.30	99.30	109.10	118.40	127.50	136.40	145.10	153.70
	KW	3.46	4.10	4.74	5.41	6.12	6.87	7.65	8.46
55	TCG	119.20	98.60	91.00	84.90	79.40	73.50	68.40	63.10
	SDT	87.30	100.70	110.80	120.20	129.30	138.20	146.90	155.50
	KW	3.37	4.15	4.82	5.51	6.23	7.00	7.80	8.64

KW – Total Power (kW)
SDT – Saturated Temperature Leaving Compressor (°F)
SST – Saturated Temperature Entering Compressor (°F)
TCG – Gross Cooling Capacity (1000 Btuh)

38CKC

CONDENSER ONLY RATINGS (S.I.)

SST °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
38CKC018-7D									
-1	TCG	5.40	4.90	4.40	4.00	3.50	3.00	2.60	2.10
	SDT	27.00	32.00	37.00	41.00	46.00	50.00	54.00	59.00
	KW	1.29	1.38	1.42	1.47	1.51	1.53	1.54	1.53
2	TCG	6.30	5.60	5.00	4.50	4.10	3.60	3.10	2.60
	SDT	28.00	33.00	38.00	42.00	47.00	51.00	56.00	60.00
	KW	1.32	1.41	1.50	1.54	1.59	1.62	1.64	1.64
4	TCG	7.20	6.40	5.80	5.20	4.70	4.10	3.60	3.10
	SDT	29.00	34.00	39.00	44.00	48.00	53.00	57.00	61.00
	KW	1.34	1.45	1.54	1.63	1.67	1.71	1.74	1.76
7	TCG	8.40	7.40	6.60	5.90	5.30	4.80	4.20	3.60
	SDT	30.00	35.00	40.00	45.00	49.00	54.00	58.00	63.00
	KW	1.36	1.48	1.59	1.68	1.77	1.80	1.84	1.87
10	TCG	10.10	8.50	7.50	6.80	6.10	5.50	4.90	4.20
	SDT	31.00	36.00	41.00	46.00	50.00	55.00	59.00	64.00
	KW	1.36	1.51	1.63	1.74	1.83	1.92	1.95	1.98
13	TCG	11.70	10.00	8.70	7.80	7.00	6.30	5.60	4.90
	SDT	32.00	37.00	42.00	47.00	52.00	56.00	61.00	65.00
	KW	1.38	1.53	1.67	1.79	1.90	1.99	2.07	2.12
38CKC024-7D									
-1	TCG	7.30	6.70	6.00	5.40	4.70	4.10	3.50	2.80
	SDT	31.00	35.00	39.00	43.00	47.00	52.00	56.00	60.00
	KW	1.66	1.74	1.80	1.86	1.91	1.95	1.97	1.97
2	TCG	8.30	7.60	6.90	6.20	5.50	4.90	4.20	3.50
	SDT	32.00	37.00	41.00	45.00	49.00	53.00	58.00	62.00
	KW	1.73	1.84	1.93	1.99	2.05	2.09	2.13	2.15
4	TCG	9.40	8.60	7.80	7.10	6.40	5.60	4.90	4.20
	SDT	34.00	38.00	43.00	47.00	51.00	55.00	59.00	64.00
	KW	1.79	1.92	2.04	2.14	2.19	2.25	2.30	2.33
7	TCG	10.70	9.70	8.80	8.00	7.20	6.50	5.70	5.00
	SDT	35.00	40.00	44.00	49.00	53.00	57.00	61.00	65.00
	KW	1.86	2.00	2.14	2.26	2.37	2.42	2.47	2.52
10	TCG	12.20	11.00	10.00	9.10	8.30	7.40	6.60	5.80
	SDT	37.00	42.00	46.00	50.00	54.00	59.00	63.00	67.00
	KW	1.92	2.08	2.23	2.37	2.49	2.60	2.67	2.73
13	TCG	14.00	12.60	11.40	10.40	9.40	8.50	7.60	6.80
	SDT	38.00	43.00	47.00	52.00	56.00	60.00	64.00	69.00
	KW	1.98	2.16	2.33	2.48	2.62	2.74	2.86	2.96
38CKC030-7D									
-1	TCG	8.30	7.70	7.00	6.40	5.70	5.00	4.30	3.50
	SDT	29.00	33.00	38.00	42.00	47.00	52.00	56.00	61.00
	KW	1.88	2.00	2.12	2.23	2.32	2.39	2.44	2.46
2	TCG	9.30	8.60	7.90	7.20	6.50	5.80	5.10	4.30
	SDT	30.00	35.00	39.00	44.00	49.00	53.00	58.00	62.00
	KW	1.96	2.11	2.23	2.35	2.46	2.55	2.62	2.66
4	TCG	10.40	9.60	8.90	8.20	7.40	6.70	5.90	5.10
	SDT	32.00	36.00	41.00	45.00	50.00	55.00	59.00	64.00
	KW	2.03	2.20	2.37	2.49	2.60	2.71	2.80	2.86
7	TCG	11.50	10.70	10.00	9.20	8.40	7.60	6.80	6.00
	SDT	34.00	38.00	43.00	47.00	52.00	56.00	61.00	65.00
	KW	2.11	2.30	2.47	2.64	2.79	2.88	2.99	3.07
10	TCG	12.80	11.90	11.10	10.20	9.40	8.60	7.70	6.90
	SDT	35.00	40.00	44.00	49.00	53.00	58.00	62.00	67.00
	KW	2.19	2.39	2.58	2.76	2.94	3.10	3.20	3.30
13	TCG	14.30	13.20	12.30	11.40	10.50	9.60	8.70	7.80
	SDT	37.00	42.00	46.00	51.00	55.00	60.00	64.00	69.00
	KW	2.26	2.49	2.69	2.89	3.08	3.25	3.41	3.56

38CKC

KW – Total Power (kW)
SDT – Saturated Temperature Leaving Compressor (°C)
SST – Saturated Temperature Entering Compressor (°C)
TCG – Gross Cooling Capacity (1000 kW)

CONDENSER ONLY RATINGS (S.I.) (CONT.)

SST °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
38CKC036-7D, 9D									
-1	TCG	10.40	9.60	8.70	7.90	7.00	6.20	5.30	4.50
	SDT	30.00	34.00	39.00	43.00	48.00	52.00	57.00	61.00
	KW	2.34	2.46	2.58	2.68	2.77	2.84	2.89	2.92
2	TCG	11.70	10.80	9.90	9.00	8.10	7.20	6.30	5.40
	SDT	32.00	36.00	40.00	45.00	49.00	54.00	58.00	63.00
	KW	2.45	2.62	2.74	2.85	2.96	3.05	3.12	3.17
4	TCG	13.00	12.10	11.10	10.20	9.20	8.30	7.40	6.40
	SDT	33.00	38.00	42.00	46.00	51.00	55.00	60.00	64.00
	KW	2.56	2.75	2.93	3.06	3.16	3.27	3.36	3.43
7	TCG	14.60	13.50	12.50	11.40	10.40	9.40	8.50	7.50
	SDT	35.00	40.00	44.00	48.00	53.00	57.00	62.00	66.00
	KW	2.66	2.88	3.07	3.25	3.41	3.51	3.62	3.71
10	TCG	16.50	15.10	13.90	12.80	11.70	10.70	9.60	8.60
	SDT	37.00	41.00	46.00	50.00	55.00	59.00	63.00	68.00
	KW	2.75	3.00	3.23	3.43	3.61	3.78	3.92	4.03
13	TCG	18.60	17.10	15.70	14.40	13.20	12.10	10.90	9.80
	SDT	38.00	43.00	47.00	52.00	56.00	61.00	65.00	70.00
	KW	2.83	3.11	3.36	3.59	3.80	3.99	4.17	4.33
38CKC042-9D									
-1	TCG	10.70	10.10	9.50	8.90	8.20	7.50	6.70	5.80
	SDT	28.00	33.00	38.00	43.00	49.00	54.00	59.00	64.00
	KW	1.87	2.20	2.54	2.92	3.33	3.76	4.18	4.57
2	TCG	11.70	11.20	10.50	9.90	9.10	8.40	7.60	6.70
	SDT	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
	KW	1.98	2.29	2.64	3.02	3.44	3.88	4.32	4.73
4	TCG	12.90	12.20	11.60	10.90	10.10	9.30	8.50	7.60
	SDT	31.00	36.00	41.00	46.00	51.00	56.00	61.00	66.00
	KW	2.07	2.41	2.78	3.17	3.57	4.01	4.46	4.90
7	TCG	14.20	13.40	12.70	12.00	11.20	10.30	9.50	8.60
	SDT	32.00	37.00	43.00	48.00	53.00	58.00	63.00	67.00
	KW	2.17	2.52	2.91	3.33	3.74	4.18	4.63	5.08
10	TCG	15.60	14.80	14.00	13.20	12.40	11.50	10.60	9.70
	SDT	33.00	39.00	44.00	49.00	54.00	59.00	64.00	68.00
	KW	2.25	2.61	3.00	3.42	3.87	4.35	4.82	5.27
13	TCG	17.30	16.40	15.50	14.60	13.70	12.80	11.80	10.90
	SDT	35.00	40.00	45.00	50.00	55.00	60.00	65.00	69.00
	KW	2.35	2.71	3.10	3.52	3.97	4.44	4.94	5.45
38CKC048-7C 9C									
-1	TCG	13.50	12.70	11.90	11.10	10.20	9.30	8.20	7.10
	SDT	28.00	33.00	38.00	43.00	48.00	53.00	58.00	63.00
	KW	2.66	2.95	3.28	3.64	4.04	4.46	4.89	5.32
2	TCG	14.90	14.10	13.30	12.40	11.50	10.50	9.50	8.40
	SDT	29.00	34.00	39.00	44.00	49.00	54.00	59.00	64.00
	KW	2.79	3.10	3.42	3.79	4.20	4.64	5.09	5.55
4	TCG	16.50	15.60	14.70	13.80	12.80	11.90	10.80	9.70
	SDT	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
	KW	2.90	3.23	3.61	3.98	4.40	4.85	5.31	5.79
7	TCG	18.20	17.20	16.30	15.30	14.30	13.30	12.20	11.00
	SDT	32.00	37.00	42.00	47.00	52.00	57.00	62.00	67.00
	KW	3.04	3.38	3.75	4.16	4.63	5.11	5.59	6.08
10	TCG	20.00	19.00	18.00	16.90	15.80	14.70	13.60	12.40
	SDT	34.00	38.00	43.00	48.00	53.00	58.00	63.00	68.00
	KW	3.19	3.53	3.91	4.34	4.80	5.32	5.88	6.44
13	TCG	22.20	21.00	19.80	18.70	17.50	16.30	15.20	14.00
	SDT	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
	KW	3.32	3.69	4.09	4.52	4.99	5.52	6.08	6.67

KW – Total Power (kW)
SDT – Saturated Temperature Leaving Compressor (°C)
SST – Saturated Temperature Entering Compressor (°C)
TCG – Gross Cooling Capacity (1000 kW)

CONDENSER ONLY RATINGS (S.I.) (CONT.)

SST °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
38CKC060-9C									
-1	TCG	17.20	16.30	15.20	14.10	13.00	11.80	10.50	9.00
	SDT	28.00	33.00	38.00	43.00	48.00	53.00	58.00	63.00
	KW	3.29	3.79	4.25	4.77	5.34	5.93	6.51	7.07
2	TCG	19.30	18.10	17.00	15.80	14.70	13.40	12.10	10.60
	SDT	29.00	35.00	40.00	45.00	49.00	54.00	59.00	64.00
	KW	3.34	3.90	4.44	4.95	5.54	6.16	6.78	7.40
4	TCG	21.70	20.20	18.90	17.70	16.40	15.10	13.80	12.30
	SDT	30.00	36.00	41.00	46.00	51.00	56.00	61.00	66.00
	KW	3.39	3.97	4.57	5.19	5.76	6.41	7.07	7.74
7	TCG	24.50	24.00	21.10	19.80	18.40	17.10	15.70	14.20
	SDT	31.00	35.00	42.00	47.00	52.00	57.00	62.00	67.00
	KW	3.43	3.91	4.66	5.31	6.01	6.68	7.37	8.06
10	TCG	28.10	25.50	23.70	22.10	20.60	19.20	17.80	16.20
	SDT	31.00	37.00	43.00	48.00	53.00	58.00	63.00	68.00
	KW	3.46	4.10	4.74	5.41	6.12	6.87	7.65	8.46
13	TCG	34.90	28.90	26.70	24.90	23.30	21.50	20.10	18.50
	SDT	31.00	38.00	44.00	49.00	54.00	59.00	64.00	69.00
	KW	3.37	4.15	4.82	5.51	6.23	7.00	7.80	8.64

KW – Total Power (kW)

SDT – Saturated Temperature Leaving Compressor (°C)

SST – Saturated Temperature Entering Compressor (°C)

TCG – Gross Cooling Capacity (1000 kW)

38CKC

SYSTEM DESIGN

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft (15.24m), indoor coil below = 150 ft (45.7m).
6. For interconnecting refrigerant tube lengths between 50 (15.24m) and 175 (53.34m) or 20 ft (6.1m) vertical differential, consult Residential's Split System Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnecting refrigerant tube length exceeds 50 ft (15.24m).
8. If any refrigerant tubing is buried, provide a 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

GENERAL

AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER 38CKC 1-1/2 TO 5 NOMINAL TONS (5.2 TO 17.5 kW)

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 construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 300 psig.
- Unit constructed in ISO 9001 approved facility.

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 air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge (R22), and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized, prepainted steel.

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 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 epoxy coated, enhanced 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 line shutoff valves with sweat connections, system charge of R-22 refrigerant, and compressor oil.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh 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 or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. 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.