

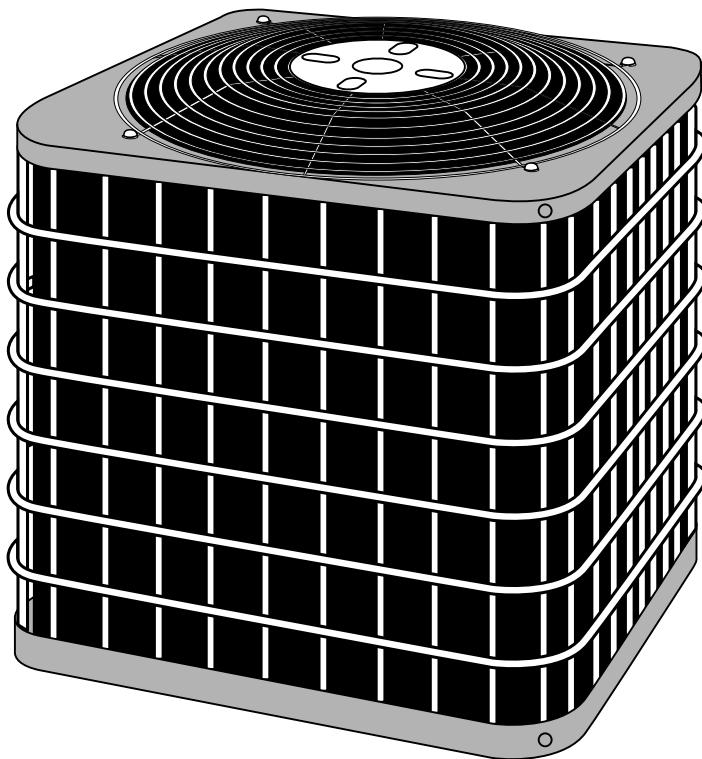


HEATING & COOLING

## Product Data

## 38YCC (60 Hz) Heat Pump

38YCC Sizes 018 thru 060



The 38YCC Outdoor Section of Split-System Heat Pumps is designed for quiet, reliable heating during the winter and cooling during the summer. With SEER ratings up to 11.5 and HSPF from 6.8 to 7.6, this heat pump system provides economy of operation through energy conservation when used with components designated by the manufacturer. The 38YCC recovers heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, removes indoor heat and excess humidity during the cooling season. All models are listed with UL (U.S. and Canada), CEC, and ARI.

### FEATURES

**Electrical Range** — All sizes of the 38YCC are offered in single phase 208–230v. The 38YCC 030 through 060 models are offered in 208/230v 3 phase and 38YCC 036 through 060 are offered in 460v 3 phase.

**Size Range** — The 38YCC is available in 7 nominal sizes from 018 through 060 to meet the needs of residential and light commercial applications.

**Compressor** — Designed specifically for heat pump duty, with energy efficiency during heating and cooling operation. Each compressor is hermetically sealed against contamination to assure long life and dependable performance; compressors are also externally mounted on rubber isolators for quiet operation. For improved serviceability, all models are equipped with a compressor terminal plug. Continuous compressor operation is approved down to  $-30^{\circ}\text{F}$  ( $-34.4^{\circ}\text{C}$ ) in the heating mode, and down to  $55^{\circ}\text{F}$

(12.8°C) in the cooling mode (unless equipped for low-ambient operation). (See heating and cooling performance tables.)

**Reliable Standard Components** — Includes a suction-tube accumulator that reduces the amount of liquid refrigerant that reaches the compressor; a low-pressure switch to stop the compressor if refrigerant charge is lost; a crankcase heater on all 3-phase units (except 030 size) to keep compressor oil warm and free of refrigerant for maximum lubricity; an internal compressor relief valve for high-pressure protection.

**3-Phase (Scroll Compressor Units) Monitor Board**—Control board that monitors the electrical phase and prevents compressor operation if wired incorrectly.

**Discharge Muffler** — Minimizes low frequency sound and pressure

pulsation generated by compressor discharge gas.

**Defrost Control Board** — Incorporates a defrost relay, defrost timer, and low-voltage terminations. The defrost control is a time and temperature initiation/termination control which includes 3 field-selectable time periods of 30, 50, and 90 minutes.

**Weather-Protective Cabinet** — Casing steel is protected with a galvanized 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.

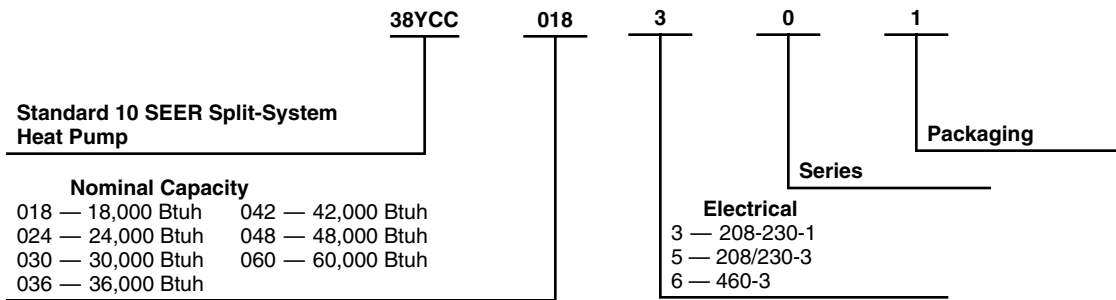
**Unit Design** — All units are equipped with totally enclosed fan motors for greater reliability under adverse weather


conditions. The large, wraparound coil uses copper tube and enhanced aluminum fin and is designed for optimum heat transfer during heating and cooling. The vertical air discharge carries the sound and air up and away from adjacent patio areas and foliage. Coil can be cleaned with a common garden hose.

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

**Limited Warranty** — Standard 5-year limited warranty on parts. 5-year limited warranty on compressor parts.

## Model number nomenclature





This heat pump can be part of a Comfort Heat Pump System which can provide higher heating supply air temperatures, as well as up to 30 times more humidity removal in cooling mode. A Comfort Heat Pump System requires the use of a Variable-Speed Fan Coil with Thermidistat Control.



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



REGISTERED QUALITY SYSTEM



CERTIFICATE NO. FM 28768

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



# Physical data

UNIT SIZE	018	024	030	036	042	048	060
<b>SERIES</b>	34/35	34/35	34/35, 52	33, 56, 66/ 34, 55, 65	34, 57, 67/ 36, 59, 69	32, 56, 66/ 34, 57, 67	32, 56, 66/ 34, 57, 67
<b>OPERATING WT (Lb)</b>	127	143	157/153	185/176	197/195	219	237
<b>COMPRESSOR Type</b>	Reciprocating				Scroll		
<b>REFRIGERANT Control Charge (Lb) @ 15 ft</b>	4.25/4.69	4.63/4.75	5.19/5.63	6.38	R-22 Piston 7.88	9.25/9.38	10.25/10.50
<b>CONDENSER FAN Air Discharge Air Qty (CFM) Motor HP Motor RPM (60 Hz)</b>	Propeller Type, Direct Drive Vertical						
	1700 1/12 1100	1700 1/12 1100	2500 1/4 1125	3000 1/4 1100	3000 1/4 1100	3300 1/4 1100	3300 1/4 1100
<b>CONDENSER COIL Face Area (Sq Ft) Fins per In. Rows Circuit</b>	9.11 20 1 2	9.11 25 1 3	12.42 20 1 3	14.8 20 1 3	18.5 20 1 4	22.40 20 1 4	22.40 25 1 5
<b>CONNECTION (In. ID) Vapor Liquid</b>	Sweat (38YCC)						
	5/8 5/8	5/8 5/8	3/4 3/4	3/4 3/4	7/8 3/8	7/8 7/8	7/8 7/8
<b>REFRIGERANT TUBES* (In. OD) Vapor (0-50 Ft Tube Length) Vapor (Max Diameter for Long-Line Applications) Liquid (0-50 Ft Tube Length) Liquid (For Long-Line Applications)</b>	5/8 3/4	5/8 3/4	3/4 7/8	3/4 7/8	7/8 3/8	7/8 1-1/8	1-1/8 1-1/8

\* Tube sizes are for lengths up to 50 ft. For lengths over 50 ft, consult Long-Line Application Guideline.

**NOTE:** See unit Installation Instructions for proper installation.

## METERING DEVICE

UNIT SIZE	SERIES	OUTDOOR PISTON	INDOOR PISTON*
018	34/35	42/40	55/52
024	34, 35	49	63
030	34, 35, 52	55	70
036	33, 56, 66	61	76
036	34, 55, 65	57	70
042	34, 36, 57, 59, 67, 69	63	78
048	32, 56, 66/34, 57, 67	73/70	88/86
060	32, 34, 56, 57, 66, 67	76	96

\*Piston listed is for any approved coil combination.

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE-SERIES	REQUIRED SUBCOOLING (°F)
018-34/35	12/14
024-34/35	12/10
030-35/52	12/8
036-(33, 56, 66)	12
036-(34, 55, 65)	14
042	16
048-32, 56, 66/34, 57, 67	10/15
060	10

# Accessories

ORDERING NUMBER	DESCRIPTION
KAATD0101TDR	Time-Delay Relay — All Sizes
KSALA0201R22	Low-Ambient Pressure Switch — All sizes
32LT660004 (RCD)†	MotorMaster® Control — Sizes 018–030; 036 (33, 34, 55, 56); 042 (34, 36, 57, 59, 67, 69); 048 (32, 56, 66, 34, 57); 060 (32, 34, 56, 57)
32LT660005 (RCD)†	MotorMaster® Control — Sizes 036 (65, 66); 042 (67, 69); 048 (66, 67); 060 (66, 67)
HC34GE232 (RCD)	Ball Bearing Fan Motor — Sizes 018, 024
HC40GE232 (RCD)	Ball Bearing Fan Motor — Sizes 030 (34, 35, 52); 036 (33, 34, 55, 56); 042 (34, 36, 57, 59); 048 (32, 56, 34, 57); 060 (32, 34, 56, 57)
HC40GE462 (RCD)	Ball Bearing Fan Motor — Sizes 036 (65, 66); 042 (67, 69); 048 (66, 67); 060 (66, 67)
KAaft0101AAA‡	Evaporator Freeze Thermostat — All Sizes
KHAIR0101AAA‡	Isolation Relay — All Sizes
KSACY0101AAA	Cycle Protector — All Sizes
KSaHS1001AAA	Start Assist — Capacitor and Relay — Sizes 018 (35); 024 (35); 030 (35)
KSaHS0901AAA	Start Assist — Capacitor and Relay—Size 030 (34)
KSaHS2101AAA	Start Assist — Capacitor and Relay—Size 024 (34); 036 (34)
KSaHS2001AAA	Start Assist — Capacitor and Relay—Size 018 (34)
KSaHS1501AAA	Start Assist — Capacitor and Relay — Size 042 (34, 36); 048 (34)
KSaHS1601AAA	Start Assist — Capacitor and Relay — Sizes 048 (32); 060 (32, 34)
N/A	Start Assist — Capacitor and Relay — All 3 phase sizes
KAACS0201PTC	Start Assist — PTC — Sizes 018–030 (34); 036 (33); 042 (34, 36); 048 (32, 34); 060 (32, 34)
N/A	Start Assist — PTC — All Three Phase
Standard	Crankcase Heater — All Three Phase; Sizes 018–030 (35); 036 (34); 060 (32, 34)
KAACH1001AAA	Crankcase Heater — 018–030 (34)
KAACH1201AAA	Crankcase Heater — Sizes 036 (33); 042 (34, 36); 048 (32, 34)
KSASH1101COP	Sound Hood — Sizes 018–024 (35); 030 (35, 52)
KSASH1901CYL	Sound Hood — Size 036 (33, 56, 66); 042 (34, 57, 67)
KSASH2001CYL	Sound Hood — Sizes 042 (36); 048 (32, 56, 66); 060 (32, 56, 66)
KSASH0601COP	Sound Hood — Size 042 (36, 59, 69)
KSASH2001BRL	Sound Hood — Sizes 018–030 (34); 036 (34, 55, 65)
KSASH2101COP	Sound Hood — Sizes 048 (34, 57, 67); 060 (34, 57, 67)
KSASH1201COP	Sound Hood — Sizes 030 (35, 52)
KHAOT0301FST	Outdoor Thermostat — All Sizes
KHAOT0201SEC	Secondary Outdoor Thermostat — All Sizes
KSATX0601HSO††	TXV (Hard Shutoff) — Sizes 018–042
KSATX0701HSO††	TXV (Hard Shutoff) — Sizes 048–060
KHATX0201RPB	TXV (RPB) — Size 018
KHATX0301RPB	TXV (RPB) — Size 024
KHATX0401RPB	TXV (RPB) — Size 030
KHATX0501RPB	TXV (RPB) — Sizes 036, 042
KHATX0601RPB	TXV (RPB) — Sizes 048
KHATX0701RPB	TXV (RPB) — Sizes 060
KHAHI0101HPS	High-Pressure Switch — All Sizes
P504-8083S (RCD)	Filter Drier — Bi-Flow — Sizes 018–036
P504-8163S (RCD)	Filter Drier — Bi-Flow — Sizes 042–060
KHALS0401LLS††	Liquid-Line Solenoid Valve (LSV) — All Sizes
KSACG0804CSM	Inlet Grille Kit — Sizes 018–024
KSACG0204CSM	Inlet Grille Kit — Size 030 (35, 52)
KSACG1704CMD	Inlet Grille Kit — Size 036 (33, 34, 55, 56, 65, 66)
KSACG2004CMD	Inlet Grille Kit — Size 042 (34, 36, 57, 59, 67, 69)
KSACG2304CMD	Inlet Grille Kit — Sizes 048 (32, 56, 66, 34, 57, 67); 060 (32, 34, 56, 57, 66, 67)
KAACF1001MED	Coastal Filter Kit — 018–030
KAACF1101LRG	Coastal Filter Kit — 036–060

\* Isolation relay required.

† Fan motor with ball bearings required.

‡ Use with low-ambient controller.

\*\* Requires outdoor thermostat.

†† Addition of these accessories requires capacitor and relay compressor start assist on all single-phase reciprocating compressor applications.

N/A — Not applicable in this application.

THERMOSTAT PKG	DESCRIPTION
TSTATCCNHP01-B	Thermostat — Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool
TSTATCCPHP01-B	Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool
TSTATCCPDF01-B	Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, Dual Fuel Must be used with Outdoor Sensor (TSTATXXSEN01-B). High-pressure switch must be added if not supplied with the system.
TSTATCCPRH01-B	Thermostat™ Control — Programmable Thermostat with Humidity Control
TSTATCCBHP01	Builder's Thermostat — Manual Changeover, Non-Programmable, °F, 2-Stage Heat, 1-Stage Cool
TSTATXXSEN01-B	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXBP01	Backplate for Programmable Thermostat
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) — 10 Pack
TSTATXXBBP01	Backplate for Builder's Thermostat

## Accessory usage guideline

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATIONS (Below 55°F)	REQUIRED FOR LONG-LINE APPLICATIONS* (Over 50 Ft)
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Accumulator	No	No
Compressor Start Assist Capacitor and Relay	Yes	Yes
MotorMaster® Control, or Low-Ambient Pressure Switch	Yes	No
Wind Baffle	See Low-Ambient Instructions	No
Coastal Filter	No	No
Unit Risers	Recommended	No
Liquid-Line Solenoid Valve or Hard Shutoff TXV	No	See Long-Line Application Guideline
Ball Bearing Fan Motor	Yes‡	No
Isolation Relay	Yes	No

\* For tubing line sets between 50 and 175 ft horizontal or 20 ft vertical differential, refer to the Residential Split-System Long-Line Application Guideline.

‡ Required for low-ambient controller (full modulation feature) and MotorMaster Control only.

For buried line applications, contact your local distributor.

## 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.

SUGGESTED USE: Required on all units where low-ambient controller (full modulation feature) or MotorMaster® Control has been added.

### 2. Compressor Start Assist — Capacitor and Relay

Start capacitor and start relay gives “hard” boost to compressor motor at each start-up.

SUGGESTED USE: Installations where interconnecting tube length exceeds 50 ft.  
Installations where outdoor design temperature exceeds 105°F (40.6°C).  
Installations with hard shutoff expansion valve on indoor coil.  
Units installed with Low-Ambient Controller.  
Units installed with Liquid-Line Solenoid Valve.

### 3. Compressor Start Assist — PTC

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.  
When unit will be operated below 55°F (12.8°C) outdoor air temperature. (Use with Low-Ambient Controller.)

### 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.  
High-rise applications.

### 6. Evaporator Freeze Thermostat

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

SUGGESTED USE: All units where Low-Ambient Controller has been added.

### 7. Filter Drier—Bi-Flow

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

SUGGESTED USE: All field-connected split-system heat pumps.

## Accessory description and usage (continued)

### 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  $426 \pm 10$  psig and resets at  $320 \pm 20$  psig. Provides protection against compressor damage due to loss of outdoor airflow.

SUGGESTED USE: Installations exposed to very "dirty" outdoor air.  
Installations where condenser inlet air temperature exceeds 125°F.

### 9. Inlet Grille Kit

A field-installed enhanced inlet grille to replace the standard inlet grille on residential air conditioners and heat pumps.

SUGGESTED USE: For greater protection against inclement weather, incidental damage, and vandalism.

### 10. Isolation Relay

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

SUGGESTED USE: All heat pumps where Low-Ambient Controller has been added.

### 11. Liquid-Line Solenoid Valve (LSV)

An electrically operated shutoff valve to be installed at the outdoor unit and which stops and starts refrigerant liquid flow in response to compressor operation. Maintains a column of refrigerant liquid ready for action at next compressor operation cycle.

**NOTE:** Compressor Start Assist — Capacitor and Relay must be used also on reciprocating compressors.

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 the Residential Split-System Long-Line Application Guideline.

### 12. 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 when properly installed.

SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).

### 13. 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, it maintains condensing temperature at  $100^\circ\text{F} \pm 10^\circ\text{F}$ .

SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F.  
All commercial installations.

### 14. Outdoor Air Temperature Sensor

A device that allows the temperature at a remote location (outdoors) to be displayed on the thermostat.

SUGGESTED USE: All Carrier programmable thermostats.

### 15. Outdoor Thermostat

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

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

REQUIRED WITH: Interface Control

### 16. Secondary Outdoor Thermostat

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

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

### 17. Sound Hood

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

SUGGESTED USE: Unit installed closer than 15 ft to quiet areas—bedrooms, etc.  
Unit installed between 2 houses less than 10 ft apart.

### 18. Thermostatic Expansion Valve (TXV) Bi-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. Hard shutoff TXV requires Compressor Start Assist — Capacitor and Relay on units with single-phase reciprocating compressors.

SUGGESTED USE: For improved system performance in cooling mode for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.  
Required for use on all zoning systems.

### 19. Time-Delay Relay

An 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.

## SOUND POWER (A-weighted, non-pure tone corrected.)

UNIT SIZE	SOUND LEVEL (dBA)	OCTAVE BAND SHOWN						
		125	250	500	1000	2000	4000	8000
018	78	49.5	58.0	66.5	69.5	67.0	66.5	59.5
024	78	50.5	59.0	64.5	68.0	67.5	67.5	61.5
030	80	57.5	64.5	68.5	72.5	72.5	70.0	64.0
036	81	60.5	67.5	73.0	76.0	73.0	69.5	63.5
042	80	59.0	65.0	70.5	75.5	72.0	69.5	64.0
048	80	54.5	63.5	69.5	75.0	71.0	70.0	67.5
060	80	56.0	64.5	73.0	74.5	71.0	71.0	63.0

**NOTE:** Tested in accordance with ARI standard 270.95. (Not listed with ARI.)

# Electrical data

OUTDOOR UNIT	V/PH 60 Hz	OPERATING VOLTS*		COMPRESSOR		FAN FLA	MCA	60°C MIN WIRE SIZE†	75°C MIN WIRE SIZE†	60°C MAX LENGTH (Ft)‡	75°C MAX LENGTH (Ft)‡	MAX FUSE** OR CKT BKR AMPS			
		Max	Min	LRA	RLA										
018-34	208-230/1	253	197	48.0	9.0	0.5	11.8	14	14	66	62	20			
018-35				49.0	9.8	0.5	12.8	14	14	70	70	20			
024-34				61.0	11.3	0.5	14.6	14	14	53	50	20			
024-35				61.0	11.4	0.5	14.8	14	14	50	45	20			
030-34				73.0	13.8	1.4	18.7	14	14	41	39	30			
030-35				75.0	13.7	1.4	18.5	14	14	40	40	30			
036-33				105.0	18.0	1.4	23.9	12	12	50	50	35			
036-34				86.0	17.2	1.4	22.9	12	12	55	52	35			
042-34				115.0	24.2	1.4	31.9	8	10	97	59	50			
042-36				127.0	22.9	1.4	30.0	10	10	67	63	50			
048-32				140.0	24.4	1.4	31.9	8	8	90	90	50			
048-34				131.0	22.0	1.4	29.0	8	10	107	66	50			
060-32				165.0	30.8	1.4	39.9	8	8	75	70	60			
060-34				148.0	30.8	1.4	39.9	8	8	75	70	60			
030-52				208/230/3	253	187	68.0	9.0	1.4	12.7	14	14	70	65	15
036-55							90.0	11.4	1.4	15.7	14	14	50	50	20
036-56	78.0	11.3	1.4				15.5	14	14	57	54	20			
042-57	90.0	17.4	1.4				23.2	12	12	60	57	35			
042-59	88.0	16.4	1.4				21.9	12	12	66	63	30			
048-56	120.0	13.5	1.4				18.3	14	14	45	40	25			
048-57	91.0	12.9	1.4				17.5	14	14	51	48	25			
060-57	125.0	17.0	1.4				22.9	12	12	55	55	35			
060-56	137.0	20.7	1.4				27.3	10	10	82	78	35			
036-65	460/3	506	414				40.0	5.7	0.8	7.9	14	14	227	216	15
036-66				45.0	6.2	0.8	8.6	14	14	202	192	15			
042-67				45.0	8.0	0.8	10.8	14	14	165	157	15			
042-69				44.0	8.4	0.8	11.3	14	14	152	144	15			
048-66				52.5	7.1	0.8	9.7	14	14	182	173	15			
048-67				46.0	6.4	0.8	8.8	14	14	202	192	15			
060-67				62.0	9.6	0.8	12.8	14	14	140	133	20			
060-66				66.5	8.5	0.8	11.4	14	14	152	144	15			

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

† If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEC (ANSI/NFPA 70). The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conductors, per the NEC (ANSI/NFPA 70) Article 336-26.

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).

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

\*\* Time-delay fuse.

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

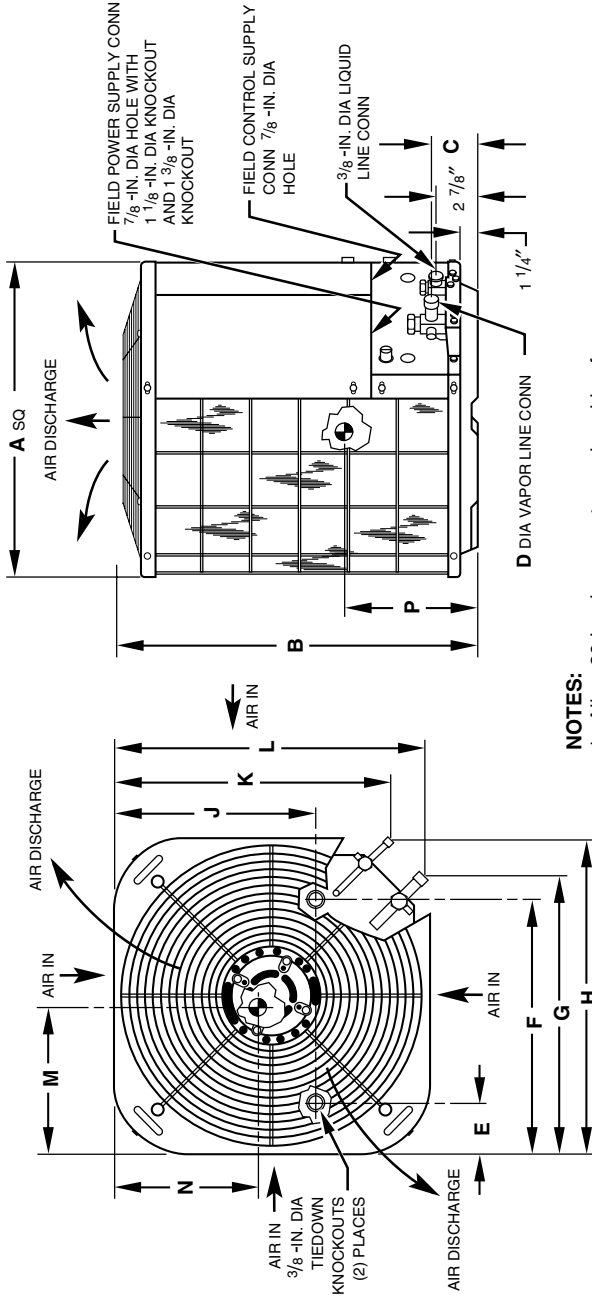
FLA — Full Load Amps

LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

# Dimensions—38YCC



**NOTES:**

1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F (unless low ambient control is used) max. 125°F.
3. Maximum outdoor operating ambient in heating mode is 66°F.
4. Series designation is the 13th position of the unit model number.
5. Center of gravity

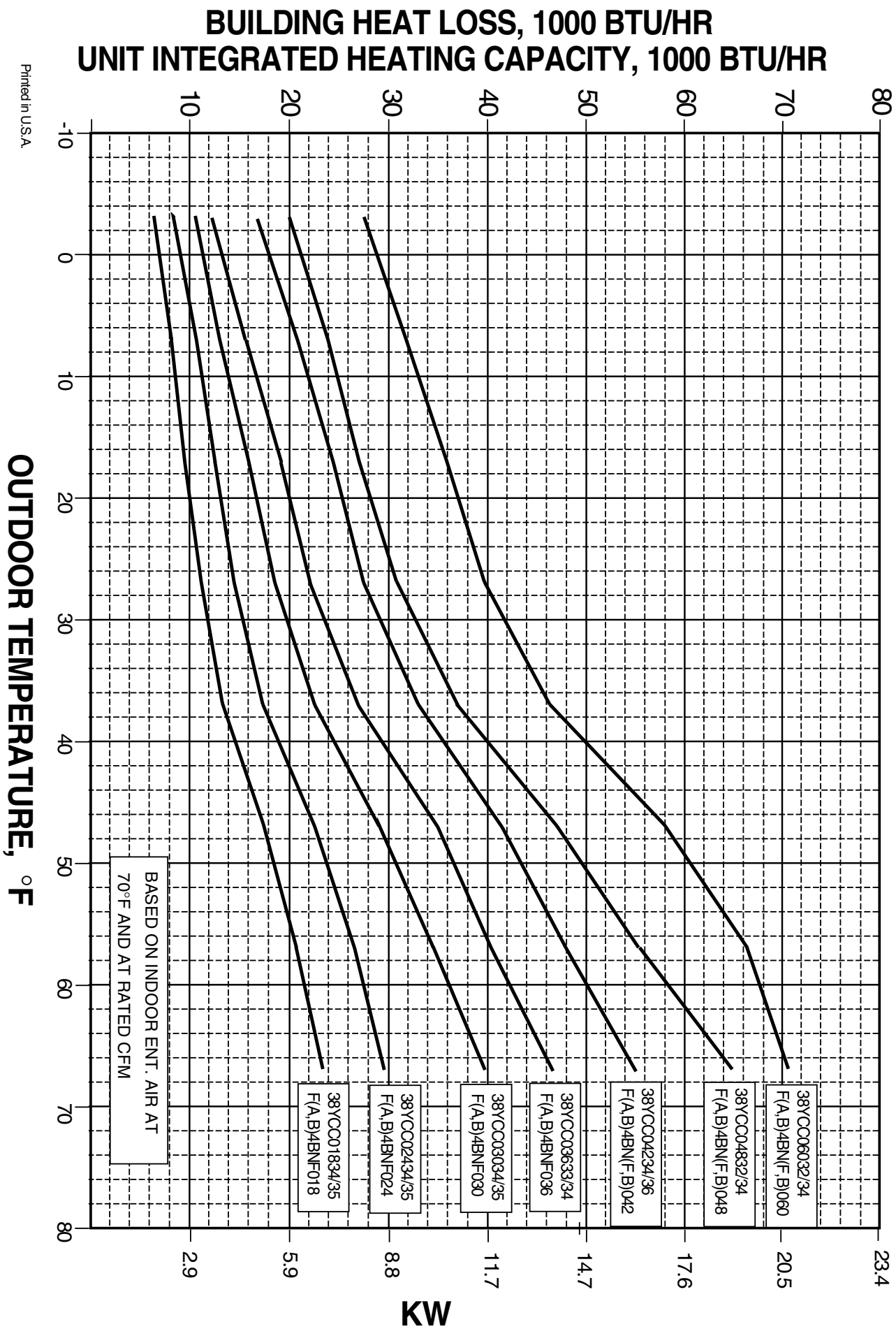
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**DIMENSIONS (IN.)**

UNIT SIZE	Series	Electrical Characteristics	A	B	C	D	E	F	G	H	J	K	L	M	N	P	MOUNTING PAD (Square)
38YCC018	4, 5	1 Phase	22-1/2	25-15/16	3-3/16	5/8	3-11/16	18-1/8	19-3/4	21-5/8	14-3/8	18-7/8	22-1/16	11	5	12	22-1/2"
38YCC024	4, 5	1 Phase	22-1/2	25-15/16	3-3/16	5/8	3-11/16	18-1/8	19-3/4	21-5/8	14-3/8	18-7/8	22-1/16	10	5	13	22-1/2"
38YCC030	2	3 Phase	22-1/2	33-15/16	3-3/16	3/4	3-11/16	18-1/8	19-3/4	21-5/8	14-3/8	18-7/8	22-1/16	12-1/2	12	14	22-1/2"
38YCC030	5	1 Phase	22-1/2	33-15/16	3-3/16	3/4	3-11/16	18-1/8	19-3/4	21-5/8	14-3/8	18-7/8	22-1/16	12-1/2	12	14	22-1/2"
38YCC036	3, 4	1 Phase	30	27-15/16	3-3/16	3/4	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	16-3/4	15	12	30"
38YCC036	5, 6	3 Phase	30	27-15/16	3-3/16	3/4	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	16-3/4	15	12	30"
38YCC042	4	1 Phase	30	33-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15	15-3/4	13-1/2	30"
38YCC042	6	1 Phase	30	31-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15	15-3/4	13-1/2	30"
38YCC042	7, 9	3 Phase	30	33-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15	15-3/4	13-1/2	30"
38YCC048	2, 4	1 Phase	30	39-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15	15-3/4	15-1/2	30"
38YCC048	6, 7	3 Phase	30	39-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15	15-3/4	15-1/2	30"
38YCC060	2, 4	1 Phase	30	39-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	13-3/4	15-5/8	15	30"
38YCC060	6, 7	3 Phase	30	39-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	13-3/4	15-5/8	15	30"



# 38YCC BALANCE POINT WORKSHEET



# Combination ratings

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS**											
		Cooling						Heating					
		TC	Seasonal Efficiency SEER				EER	High-Temp		Low-Temp		HSPF	
			Factory-Supplied Enhancement	Standard Rating	Accessory TXV‡	Carrier Gas Furnace or Accessory TDR†		TC	COP	TC	COP		
018-34, 35	*F(A,B)4BN(F,C)018	17,000	TDR	10.00	—	—	8.80	17,500	3.00	11,000	2.22	7.0	
	CC5A/CD5AA018	17,500	NONE	—	10.00	10.00	8.85	17,000	2.94	11,000	2.18	6.8	
	CC5A/CD5AA024	17,800	NONE	—	10.10	10.10	9.05	17,500	3.08	11,200	2.24	7.0	
	CE3AA024	17,800	NONE	—	10.10	10.10	9.10	17,500	3.08	11,200	2.26	7.0	
	CF5AA024	17,800	NONE	—	10.10	10.10	9.10	17,500	3.10	11,300	2.26	7.2	
	CK3BA024	17,800	NONE	—	10.10	10.10	9.00	17,500	3.16	11,300	2.26	7.0	
	CK5A/CK5BA018	17,500	NONE	—	10.00	10.00	8.85	17,000	3.04	11,200	2.24	6.8	
	CK5A/CK5BA024	17,800	NONE	—	10.10	10.10	9.00	17,500	3.16	11,300	2.26	7.0	
	CK5A/CK5BW024	17,800	NONE	—	10.10	10.10	9.00	17,500	3.16	11,300	2.26	7.0	
	F(A,B)4AN(F,C)018	17,000	TDR	10.00	—	—	8.80	17,500	3.00	11,000	2.22	7.0	
	F(A,B)4AN(F,C)024	18,000	TDR	10.10	—	—	8.95	18,000	3.12	11,400	2.26	7.2	
	F(A,B)4BN(F,C)024	18,000	TDR	10.10	—	—	8.95	18,000	3.12	11,400	2.26	7.2	
	FC4BNF024	18,000	TDR&TXV	10.10	—	—	8.80	18,000	3.14	11,300	2.28	7.2	
	FC4CNF024	18,000	TDR&TXV	10.10	—	—	8.80	18,000	3.14	11,300	2.28	7.2	
	FF1DNA018	17,000	TDR	10.00	—	—	9.00	17,500	3.02	11,000	2.22	7.0	
	FF1DNA024	17,800	TDR	10.20	—	—	9.05	17,600	3.16	11,300	2.28	7.2	
	FG3AAA024	17,500	NONE	—	10.00	10.00	8.65	16,800	3.06	11,200	2.26	6.8	
	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA024	17,500	TDR	11.00	—	—	9.70	17,000	3.06	10,200	2.26	7.0
		CC5A/CD5AW024	17,500	TDR	11.00	—	—	9.70	17,000	3.06	10,200	2.26	7.0
		CE3AA024	17,500	TDR	11.00	—	—	9.70	17,000	3.08	10,300	2.28	7.0
		CK3BA024	17,500	TDR	11.00	—	—	9.85	17,000	3.24	10,400	2.34	7.2
		CK5A/CK5BA024	17,500	TDR	11.00	—	—	9.85	17,000	3.24	10,400	2.34	7.2
		CK5A/CK5BW024	17,500	TDR	11.00	—	—	9.85	17,000	3.24	10,400	2.34	7.2
	024-34, 35	*F(A,B)4BN(F,C)024	22,600	TDR	10.00	—	—	8.90	22,800	3.20	14,000	2.28	7.0
		CC5A/CD5AA024	22,400	NONE	—	10.00	10.00	8.85	22,800	3.10	13,800	2.24	6.9
		CC5A/CD5AA030	22,800	NONE	—	10.00	10.00	8.90	22,800	3.10	13,900	2.24	6.9
		CC5A/CD5AW030	22,800	NONE	—	10.00	10.00	8.90	22,800	3.10	13,900	2.24	6.9
		CE3AA024	22,600	NONE	—	10.00	10.00	8.90	22,800	3.14	13,900	2.26	6.9
		CE3AA030	23,000	NONE	—	10.00	10.00	8.95	22,800	3.22	14,000	2.28	7.0
		CF5AA024	22,600	NONE	—	10.00	10.00	8.90	22,800	3.14	13,900	2.26	6.9
		CK3BA024	22,600	NONE	—	10.00	10.00	8.85	22,800	3.22	14,100	2.30	7.0
CK3BA030		22,800	NONE	—	10.00	10.00	8.90	22,800	3.18	14,100	2.28	6.9	
CK5A/CK5BA024		22,600	NONE	—	10.00	10.00	8.90	22,800	3.20	14,000	2.28	7.0	
CK5A/CK5BA030		22,800	NONE	—	10.00	10.00	8.90	22,800	3.18	14,100	2.28	6.9	
CK5A/CK5BW024		22,600	NONE	—	10.00	10.00	8.90	22,800	3.20	14,000	2.28	7.0	
CK5A/CK5BW030		22,800	NONE	—	10.00	10.00	8.90	22,800	3.18	14,100	2.28	6.9	
F(A,B)4AN(F,C)024		22,600	TDR	10.00	—	—	8.90	22,800	3.20	14,000	2.28	7.0	
F(A,B)4AN(F,C)030		22,800	TDR	10.00	—	—	9.00	22,800	3.22	14,000	2.30	7.0	
F(A,B)4BN(F,C)030		22,800	TDR	10.00	—	—	9.00	22,800	3.22	14,000	2.30	7.0	
FC4BNF024		22,600	TDR&TXV	10.00	—	—	8.90	22,800	3.20	14,000	2.28	7.0	
FC4BNF030		22,800	TDR&TXV	10.00	—	—	8.90	22,800	3.22	14,000	2.30	7.0	
FC4CNF024		22,600	TDR&TXV	10.00	—	—	8.90	22,800	3.20	14,000	2.28	7.0	
FC4CNF030		22,800	TDR&TXV	10.00	—	—	8.80	22,800	3.22	14,000	2.30	7.0	
FF1DNA024		22,000	TDR	10.00	—	—	9.05	22,800	3.18	14,100	2.28	7.0	
FF1DNA030		23,000	TDR	10.00	—	—	9.05	22,800	3.24	14,200	2.30	7.0	
FK4CNF001		23,000	TDR&TXV	11.00	—	—	9.95	22,000	3.38	13,400	2.44	7.2	
FK4CNF002		23,200	TDR&TXV	11.10	—	—	10.00	21,000	3.40	13,500	2.46	7.0	
FK4DNF001		23,000	TDR&TXV	11.00	—	—	9.95	22,000	3.38	13,400	2.44	7.2	
FK4DNF002		23,200	TDR&TXV	11.10	—	—	10.00	21,000	3.40	13,500	2.46	7.0	
<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>													
		CC5A/CD5AA030	22,800	TDR	11.00	—	—	9.65	20,600	3.22	12,800	2.32	7.0
		CC5A/CD5AW030	22,800	TDR	11.00	—	—	9.65	20,600	3.22	12,800	2.32	7.0
		CE3AA030	22,800	TDR	11.00	—	—	9.70	21,000	3.30	13,100	2.36	7.0
		CK3BA030	22,800	TDR	11.00	—	—	9.65	21,000	3.34	13,200	2.36	7.0
		CK5A/CK5BA030	22,800	TDR	11.00	—	—	9.65	21,000	3.34	13,200	2.36	7.0
	CK5A/CK5BW030	22,800	TDR	11.00	—	—	9.65	21,000	3.34	13,200	2.36	7.0	
030-34, 35, 52	*F(A,B)4BN(F,C)030	28,200	TDR	10.00	—	—	9.20	29,000	3.08	17,100	2.20	7.2	
	CC5A/CD5AA030	27,800	NONE	—	10.00	10.00	9.10	28,600	3.00	17,000	2.16	7.0	
	CC5A/CD5AA036	28,600	NONE	—	10.20	10.20	9.30	29,200	3.14	17,300	2.20	7.2	
	CC5A/CD5AW030	27,800	NONE	—	10.00	10.00	9.10	28,600	3.00	17,000	2.16	7.0	
	CC5A/CD5AW036	28,600	NONE	—	10.20	10.20	9.30	29,200	3.14	17,300	2.20	7.2	
	CE3AA030	28,000	NONE	—	10.00	10.00	9.15	29,000	3.08	17,200	2.18	7.0	
	CE3AA036	28,200	NONE	—	10.00	10.00	9.25	29,000	3.08	17,200	2.20	7.2	
	CF5AA036	28,200	NONE	—	10.00	10.00	9.30	29,000	3.10	17,300	2.20	7.2	
	CK3BA030	27,800	NONE	—	10.00	10.00	9.15	28,600	3.06	17,100	2.18	7.0	
	CK3BA036	28,600	NONE	—	10.20	10.20	9.40	29,200	3.18	17,400	2.24	7.2	
	CK5A/CK5BA030	27,800	NONE	—	10.00	10.00	9.15	28,600	3.06	17,100	2.18	7.0	
	CK5A/CK5BA036	28,600	NONE	—	10.20	10.20	9.40	29,200	3.18	17,400	2.24	7.2	
	CK5A/CK5BT036	28,600	NONE	—	10.20	10.20	9.40	29,200	3.18	17,400	2.24	7.2	
	CK5A/CK5BW030	27,800	NONE	—	10.00	10.00	9.15	28,600	3.06	17,100	2.18	7.0	
	CK5A/CK5BW036	28,600	NONE	—	10.20	10.20	9.40	29,200	3.18	17,400	2.24	7.2	
	F(A,B)4AN(F,C)030	28,200	TDR	10.00	—	—	9.20	29,000	3.08	17,100	2.20	7.2	
	F(A,B)4AN(F,C)036	28,400	TDR	10.00	—	—	9.20	29,200	3.08	17,500	2.18	7.2	
	F(A,B)4BN(F,C)036	28,400	TDR	10.00	—	—	9.20	29,200	3.08	17,500	2.18	7.2	
	FC4BNF030	28,200	TDR&TXV	10.00	—	—	9.05	29,000	3.08	17,100	2.20	7.2	
	FC4BNF036	28,400	TDR&TXV	10.00	—	—	8.85	29,200	3.08	17,500	2.18	7.2	
	FC4CNF030	28,200	TDR&TXV	10.00	—	—	9.05	29,000	3.08	17,100	2.20	7.2	

See notes on pg. 14.

# Combination ratings

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS**											
		Cooling						Heating					
		TC	Seasonal Efficiency SEER				EER	High-Temp		Low-Temp		HSPF	
			Factory- Supplied Enhance- ment	Standard Rating	Accessory TXV‡	Carrier Gas Furnace or Accessory TDR†		TC	COP	TC	COP		
030-34, 35, 52	FC4CNF036	28,400	TDR&TXV	10.00	—	—	8.85	29,200	3.08	17,500	2.18	7.2	
	FF1DNA030	28,200	TDR	10.00	—	—	9.20	29,000	3.10	17,400	2.18	7.2	
	FG3AAA036	28,200	NONE	—	10.00	10.00	9.10	29,000	3.08	17,200	2.20	7.2	
	FK4CNF001	28,200	TDR&TXV	10.50	—	—	9.95	28,000	3.18	16,500	2.30	7.3	
	FK4CNF002	28,400	TDR&TXV	11.00	—	—	10.00	28,200	3.26	16,600	2.32	7.5	
	FK4CNF003	28,800	TDR&TXV	11.00	—	—	10.30	28,000	3.30	16,400	2.36	7.5	
	FK4DNF001	28,200	TDR&TXV	10.50	—	—	9.95	28,000	3.18	16,500	2.30	7.3	
	FK4DNF002	28,400	TDR&TXV	11.00	—	—	10.00	28,200	3.26	16,600	2.32	7.5	
	FK4DNF003	28,800	TDR&TXV	11.00	—	—	10.30	28,000	3.30	16,400	2.36	7.5	
	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA036	28,600	TDR	11.00	—	—	10.10	27,400	3.20	16,000	2.30	7.2
		CE3AA036	28,000	TDR	10.80	—	—	9.95	27,400	3.14	16,000	2.28	7.2
		CK3BA036	28,600	TDR	11.00	—	—	10.10	27,400	3.24	16,300	2.32	7.2
		CK5A/CK5BA036	28,600	TDR	11.00	—	—	10.10	27,400	3.24	16,300	2.32	7.2
		CK5A/CK5BT036	28,600	TDR	11.00	—	—	10.10	27,400	3.24	16,300	2.32	7.2
<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>													
	CC5A/CD5AA036	28,600	TDR	11.00	—	—	10.25	27,400	3.22	15,900	2.32	7.2	
	CC5A/CD5AW036	28,600	TDR	11.00	—	—	10.25	27,400	3.22	15,900	2.32	7.2	
	CE3AA036	28,600	TDR	11.00	—	—	10.15	27,400	3.16	15,800	2.32	7.2	
	CK3BA036	28,600	TDR	11.00	—	—	10.25	27,400	3.26	16,200	2.34	7.2	
	CK5A/CK5BA036	28,600	TDR	11.00	—	—	10.25	27,400	3.26	16,200	2.34	7.2	
	CK5A/CK5BW036	28,600	TDR	11.00	—	—	10.25	27,400	3.26	16,200	2.34	7.2	
036-33, 34, 55, 56, 65, 66	*F(A,B)4BN(F,C)036	34,200	TDR	10.00	—	—	9.30	35,000	3.10	21,200	2.24	7.2	
	CC5A/CD5AA036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.16	23,400	2.26	7.2	
	CC5A/CD5AA042	34,800	NONE	—	10.20	10.20	9.60	35,000	3.16	21,000	2.26	7.2	
	CC5A/CD5AW036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.16	21,000	2.26	7.2	
	CC5A/CD5AW042	34,400	NONE	—	10.20	10.20	9.35	35,000	3.12	20,800	2.26	7.2	
	CE3AA036	34,200	NONE	—	10.10	10.10	9.55	34,800	3.12	20,800	2.24	7.2	
	CE3AA042	34,600	NONE	—	10.20	10.20	9.55	35,000	3.18	21,000	2.28	7.2	
	CF5AA036	34,200	NONE	—	10.00	10.00	9.55	34,800	3.14	20,800	2.26	7.2	
	CK3BA036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.18	21,000	2.28	7.2	
	CK3BA042	34,800	NONE	—	10.20	10.20	9.60	35,000	3.18	21,000	2.28	7.2	
	CK5A/CK5BA036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.18	21,000	2.28	7.2	
	CK5A/CK5BA042	34,800	NONE	—	10.20	10.20	9.60	35,000	3.18	21,000	2.28	7.2	
	CK5A/CK5BT036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.18	21,000	2.28	7.2	
	CK5A/CK5BT042	34,800	NONE	—	10.20	10.20	9.60	35,000	3.18	21,000	2.28	7.2	
	CK5A/CK5BW036	34,200	NONE	—	10.00	10.00	9.60	35,000	3.18	21,000	2.28	7.2	
	F(A,B)4AN(F,B,C)042	34,800	TDR	10.20	—	—	9.55	35,200	3.16	21,200	2.26	7.4	
	F(A,B)4AN(F,C)036	34,200	TDR	10.00	—	—	9.30	35,000	3.10	21,200	2.24	7.2	
	F(A,B)4BN(F,B,C)042	34,800	TDR	10.20	—	—	9.55	35,200	3.16	21,200	2.26	7.4	
	FC4BN(F,B)042	34,800	TDR&TXV	10.20	—	—	9.55	35,200	3.16	21,200	2.26	7.4	
	FC4BNF036	34,200	TDR&TXV	10.00	—	—	9.30	35,000	3.10	21,200	2.24	7.2	
	FC4CN(F,B)042	34,800	TDR&TXV	10.20	—	—	9.55	35,200	3.16	21,200	2.26	7.4	
	FC4CNF036	34,200	TDR&TXV	10.00	—	—	9.30	35,000	3.10	21,200	2.24	7.2	
	FG3AAA036	34,000	NONE	—	10.00	10.00	9.55	34,000	3.10	20,800	2.24	7.0	
	FK4CNF001	33,800	TDR&TXV	11.00	—	—	10.05	34,000	3.20	20,200	2.32	7.5	
	FK4CNF002	33,800	TDR&TXV	11.00	—	—	10.05	34,000	3.28	20,400	3.34	7.5	
	FK4CNF003	34,200	TDR&TXV	11.50	—	—	10.50	34,000	3.30	20,000	2.38	7.5	
	FK4DNF001	33,800	TDR&TXV	11.00	—	—	10.05	34,000	3.20	20,200	2.32	7.5	
	FK4DNF002	33,800	TDR&TXV	11.00	—	—	10.05	34,000	3.28	20,400	3.34	7.5	
	FK4DNF003	34,200	TDR&TXV	11.50	—	—	10.50	34,000	3.30	20,000	2.38	7.5	
	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>												
		CE3AA042	34,600	TDR	11.00	—	—	10.00	34,000	3.24	20,200	2.36	7.4
		CK5A/CK5BE042	34,800	TDR	11.00	—	—	10.00	34,200	3.28	20,200	2.36	7.4
	<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA042	34,600	TDR	11.00	—	—	10.15	33,800	3.24	19,800	2.36	7.4
		CE3AA042	34,800	TDR	11.20	—	—	10.15	34,000	3.26	20,000	2.38	7.4
		CK3BA042	34,600	TDR	11.20	—	—	10.10	34,000	3.28	20,000	2.38	7.4
		CK5A/CK5BA042	34,600	TDR	11.20	—	—	10.10	34,000	3.28	20,000	2.38	7.4
		CK5A/CK5BE042	34,800	TDR	11.20	—	—	10.15	34,000	3.32	20,200	2.40	7.4
		CK5A/CK5BT042	34,600	TDR	11.20	—	—	10.10	34,000	3.28	20,000	2.38	7.4
	<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA042	34,600	TDR	11.20	—	—	10.25	33,600	3.26	19,700	2.38	7.4
		CC5A/CD5AW042	34,200	TDR	11.20	—	—	10.20	33,600	3.22	19,600	2.36	7.4
		CE3AA042	34,800	TDR	11.20	—	—	10.20	34,000	3.28	20,000	2.38	7.4
		CK3BA042	34,800	TDR	11.20	—	—	10.20	34,000	3.30	20,000	2.40	7.4
		CK5A/CK5BA042	34,800	TDR	11.20	—	—	10.25	34,000	3.30	20,000	2.40	7.4
		CK5A/CK5BT042	34,600	TDR	11.20	—	—	10.20	34,000	3.30	20,000	2.40	7.4
	<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>												
	CC5A/CD5AA042	34,600	TDR	11.20	—	—	10.20	33,800	3.24	19,800	2.36	7.4	
	CC5A/CD5AW042	34,200	TDR	11.20	—	—	10.15	33,600	3.22	19,700	2.36	7.4	
	CE3AA042	34,800	TDR	11.20	—	—	10.15	34,000	3.28	20,000	2.38	7.4	
	CK3BA042	34,600	TDR	11.20	—	—	10.15	34,000	3.28	20,000	2.40	7.4	
	CK5A/CK5BA042	34,600	TDR	11.20	—	—	10.15	34,000	3.28	20,000	2.40	7.4	
	CK5A/CK5BT042	34,600	TDR	11.20	—	—	10.15	34,000	3.28	20,000	2.40	7.4	

See notes on pg. 14.

# Combination ratings

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS**											
		Cooling						Heating					
		TC	Seasonal Efficiency SEER				EER	High-Temp		Low-Temp		HSPF	
			Factory- Supplied Enhance- ment	Standard Rating	Accessory TXV†	Carrier Gas Furnace or Accessory TDR†		TC	COP	TC	COP		
<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>													
036-33, 34, 55, 56, 65, 66	CC5A/CD5AA042	34,600	TDR	11.20	—	—	10.30	33,600	3.26	19,700	2.38	7.4	
	CC5A/CD5AW042	34,400	TDR	11.20	—	—	10.20	33,600	3.24	19,600	2.36	7.4	
	CE3AA042	34,800	TDR	11.20	—	—	10.25	34,000	3.28	19,900	2.40	7.4	
	CK3BA042	34,600	TDR	11.20	—	—	10.20	34,000	3.30	20,000	2.40	7.4	
	CK5A/CK5BA042	34,800	TDR	11.20	—	—	10.20	34,000	3.30	20,000	2.40	7.4	
	CK5A/CK5BT042	34,800	TDR	11.20	—	—	10.20	34,000	3.30	20,000	2.40	7.4	
042-34, 36, 57, 59, 67, 69	*F(A,B)4BN(F,B,C)042	40,500	TDR	10.00	—	—	9.00	42,000	3.06	27,000	2.26	7.2	
	CC5A/CD5AA042	40,500	NONE	—	10.00	10.00	9.10	42,000	3.04	26,800	2.26	7.2	
	CC5A/CD5AC048	40,500	NONE	—	10.00	10.00	9.05	42,000	2.96	26,600	2.22	7.2	
	CC5A/CD5AW042	40,500	NONE	—	10.00	10.00	9.05	42,000	3.02	26,600	2.24	7.2	
	CC5A/CD5AW048	41,000	NONE	—	10.00	10.00	9.10	42,000	3.08	26,800	2.28	7.2	
	CD5AA048	41,000	NONE	—	10.00	10.00	9.10	42,000	3.08	26,800	2.28	7.2	
	CE3AA042	41,000	NONE	—	10.00	10.00	9.15	42,000	3.10	26,800	2.28	7.2	
	CE3AA048	41,000	NONE	—	10.00	10.00	9.20	42,000	3.12	26,800	2.30	7.2	
	CF5AA048	40,500	NONE	—	10.00	10.00	9.15	42,000	3.06	26,800	2.26	7.2	
	CK3BA042	40,500	NONE	—	10.00	10.00	9.10	42,000	3.08	26,800	2.28	7.2	
	CK3BA048	41,000	NONE	—	10.00	10.00	9.15	42,000	3.14	26,800	2.30	7.2	
	CK5A/CK5BA042	40,500	NONE	—	10.00	10.00	9.10	42,000	3.08	26,800	2.28	7.2	
	CK5A/CK5BA048	41,000	NONE	—	10.00	10.00	9.15	42,000	3.14	26,800	2.30	7.2	
	CK5A/CK5BE042	41,000	NONE	—	10.00	10.00	9.15	41,000	3.14	26,800	2.30	7.0	
	CK5A/CK5BT042	40,500	NONE	—	10.00	10.00	9.10	42,000	3.08	26,800	2.28	7.2	
	CK5A/CK5BT048	41,000	NONE	—	10.00	10.00	9.15	42,000	3.14	26,800	2.30	7.2	
	CK5A/CK5BW048	41,000	NONE	—	10.00	10.00	9.15	42,000	3.14	26,800	2.30	7.2	
	F(A,B)4AN(F,B,C)042	40,500	TDR	10.00	—	—	9.00	42,000	3.06	27,000	2.26	7.2	
	F(A,B)4AN(F,B,C)048	41,000	TDR	10.00	—	—	9.10	42,000	3.16	27,000	2.30	7.2	
	F(A,B)4BN(F,B,C)048	41,000	TDR	10.00	—	—	9.10	42,000	3.16	27,000	2.30	7.2	
	FC4BN(F,B)042	40,500	TDR&TXV	10.00	—	—	9.05	42,000	3.06	27,000	2.26	7.2	
	FC4BN(F,B)048	41,000	TDR&TXV	10.00	—	—	9.15	42,000	3.16	27,000	2.30	7.2	
	FC4CN(F,B)042	40,500	TDR&TXV	10.00	—	—	9.05	42,000	3.06	27,000	2.26	7.2	
	FC4CN(F,B)048	41,000	TDR&TXV	10.00	—	—	9.15	42,000	3.16	27,000	2.30	7.2	
	FG3AAA048	40,500	NONE	—	10.00	10.00	9.15	42,000	3.12	26,800	2.30	7.2	
	FK4CNF003	40,000	TDR&TXV	10.50	—	—	9.80	41,500	3.14	25,800	2.34	7.4	
	FK4CNF005	41,000	TDR&TXV	11.00	—	—	10.20	41,000	3.38	26,000	2.46	7.5	
	FK4DNF003	40,000	TDR&TXV	10.50	—	—	9.80	41,500	3.14	25,800	2.34	7.4	
	FK4DNF005	41,000	TDR&TXV	11.00	—	—	10.20	41,000	3.38	26,000	2.46	7.5	
	<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>												
	042-34, 36, 57, 59, 67, 69	CC5A/CD5AC048	40,000	TDR	10.50	—	—	9.65	40,500	2.96	25,600	2.28	7.2
		CD5AA048	40,500	TDR	10.50	—	—	9.75	41,000	3.14	25,800	2.34	7.4
CE3AA048		40,500	TDR	10.50	—	—	9.70	41,000	3.16	26,000	2.34	7.4	
CK3BA048		40,500	TDR	10.50	—	—	9.75	41,000	3.20	25,800	2.36	7.4	
CK5A/CK5BA048		40,500	TDR	10.50	—	—	9.75	41,000	3.20	25,800	2.36	7.4	
CK5A/CK5BT048		40,500	TDR	10.50	—	—	9.75	41,000	3.20	25,800	2.36	7.4	
<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>													
042-34, 36, 57, 59, 67, 69	CC5A/CD5AC048	40,000	TDR	10.50	—	—	9.75	40,500	2.98	25,400	2.30	7.2	
	CC5A/CD5AW048	40,500	TDR	11.00	—	—	9.85	41,000	3.14	25,600	2.34	7.4	
	CD5AA048	40,500	TDR	11.00	—	—	9.85	41,000	3.16	25,600	2.34	7.4	
	CE3AA048	40,500	TDR	10.50	—	—	9.80	41,000	3.18	25,800	2.36	7.4	
	CK3BA048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BA048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BT048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BW048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>												
	042-34, 36, 57, 59, 67, 69	CC5A/CD5AC048	40,000	TDR	10.50	—	—	9.75	40,500	2.98	25,400	2.30	7.2
CC5A/CD5AW048		40,500	TDR	11.00	—	—	9.85	41,000	3.14	25,600	2.34	7.4	
CD5AA048		40,500	TDR	11.00	—	—	9.85	41,000	3.16	25,600	2.36	7.4	
CE3AA048		40,500	TDR	10.50	—	—	9.80	41,000	3.18	25,800	2.36	7.4	
CK3BA048		40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
CK5A/CK5BA048		40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
CK5A/CK5BT048		40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
CK5A/CK5BW048		40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>													
042-34, 36, 57, 59, 67, 69	CC5A/CD5AC048	40,000	TDR	10.50	—	—	9.80	40,500	2.98	25,400	2.30	7.2	
	CC5A/CD5AW048	40,500	TDR	11.00	—	—	9.85	41,000	3.16	25,600	2.36	7.4	
	CD5AA048	40,500	TDR	11.00	—	—	9.90	41,000	3.16	25,600	2.36	7.4	
	CE3AA048	40,500	TDR	10.50	—	—	9.80	41,000	3.18	25,800	2.36	7.4	
	CK3BA048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BA048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BT048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	
	CK5A/CK5BW048	40,500	TDR	11.00	—	—	9.85	41,000	3.22	25,800	2.38	7.4	

See notes on pg. 14.

# Combination ratings

UNIT SIZE-SERIES	INDOOR UNIT	ARI STANDARD RATINGS**											
		Cooling						Heating					
		TC	Seasonal Efficiency SEER				EER	High-Temp		Low-Temp		HSPFF	
			Factory-Supplied Enhancement	Standard Rating	Accessory TXV†	Carrier Gas Furnace or Accessory TDR†		TC	COP	TC	COP		
048-32, 34, 56, 57, 66, 67	*F(A,B)4BN(F,B,C)048	45,500	TDR	10.00	—	10.00	9.15	47,000	3.20	30,200	2.34	7.20	
	CC5A/CD5AA060	45,000	NONE	—	10.00	10.00	9.25	46,500	3.06	29,800	2.30	7.20	
	CC5A/CD5AC048	43,500	NONE	—	10.00	10.00	9.15	46,000	2.94	29,400	2.26	7.00	
	CC5A/CD5AW048	45,000	NONE	—	10.00	10.00	9.15	46,500	3.12	29,800	2.32	7.20	
	CC5A/CD5AW060	46,000	NONE	—	10.00	10.00	9.40	47,000	3.22	29,800	2.36	7.20	
	CD5AA048	45,000	NONE	—	10.00	10.00	9.20	46,500	3.12	29,800	2.32	7.20	
	CE3AA048	45,000	NONE	—	10.00	10.00	9.35	47,000	3.12	29,600	2.34	7.20	
	CE3AA060	46,000	NONE	—	10.00	10.00	9.45	47,000	3.18	29,800	2.38	7.50	
	CF5AA048	44,500	NONE	—	10.00	10.00	9.30	46,500	2.94	29,000	2.28	7.20	
	CK3BA048	45,000	NONE	—	10.00	10.00	9.25	46,500	3.16	29,800	2.36	7.20	
	CK3BA060	45,000	NONE	—	10.00	10.00	9.40	46,500	3.30	30,000	2.40	7.20	
	CK5A/CK5BA048	45,000	NONE	—	10.00	10.00	9.25	46,500	3.16	29,800	2.36	7.20	
	CK5A/CK5BA060	45,000	NONE	—	10.00	10.00	9.40	46,500	3.30	30,000	2.40	7.20	
	CK5A/CK5BT048	45,000	NONE	—	10.00	10.00	9.25	46,500	3.16	29,800	2.36	7.20	
	CK5A/CK5BT060	45,000	NONE	—	10.00	10.00	9.40	46,500	3.30	30,000	2.40	7.20	
	CK5A/CK5BW048	45,000	NONE	—	10.00	10.00	9.25	46,500	3.16	29,800	2.36	7.20	
	CK5A/CK5BX060	46,000	NONE	—	10.00	10.00	9.50	47,000	3.28	30,000	2.42	7.20	
	F(A,B)4BN(F,B,C)060	46,500	TDR	10.00	—	10.00	9.20	47,000	3.22	30,400	2.36	7.50	
	FB4BNB070	47,000	TDR	10.00	—	10.00	9.45	47,000	3.30	30,400	2.42	7.50	
	FC4CN(F,B)048	46,000	TDR&TXV	10.00	—	10.00	9.20	47,000	3.20	30,200	2.34	7.20	
	FC4CN(F,B)060	46,500	TDR&TXV	10.00	—	10.00	9.25	47,000	3.22	30,400	2.36	7.50	
	FC4CNB070	47,000	TDR&TXV	10.00	—	10.00	9.55	47,000	3.24	30,400	2.42	7.50	
	FG3AAA048	44,500	NONE	10.00	—	10.00	9.15	47,000	3.16	29,800	2.34	7.20	
	FK4DNF005	46,000	TDR&TXV	11.00	—	11.00	10.20	46,000	3.36	28,800	2.50	7.50	
	FK4DNB006	47,000	TDR&TXV	11.20	—	11.20	10.45	46,000	3.52	28,800	2.54	7.60	
	<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>												
		CE3AA060	45,500	TDR	10.50	—	10.50	9.85	45,000	3.18	29,000	2.40	7.00
	<b>COILS + 58CV(A,X)110-20 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA060	44,000	TDR	10.50	—	10.50	9.65	45,000	3.02	28,600	2.34	7.00
		CE3AA060	45,500	TDR	10.50	—	10.50	9.90	45,000	3.18	28,800	2.42	7.00
		CK3BA060	45,500	TDR	10.50	—	11.00	9.85	45,500	3.30	29,000	2.44	7.40
		CK5A/CK5BA060	45,500	TDR	10.50	—	11.00	9.90	45,500	3.30	29,000	2.46	7.40
		CK5A/CK5BT060	45,500	TDR	10.50	—	10.50	9.85	45,500	3.30	29,000	2.46	7.40
		CK5A/CK5BX060	46,000	TDR	10.50	—	10.50	10.00	45,500	3.30	29,000	2.46	7.40
	<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA060	44,500	TDR	10.50	—	10.50	9.80	45,000	3.04	28,600	2.34	7.00
		CE3AA060	45,500	TDR	11.00	—	11.00	10.00	45,000	3.22	28,800	2.44	7.00
		CK3BA060	45,500	TDR	11.00	—	11.00	10.00	45,500	3.32	28,800	2.46	7.40
		CK5A/CK5BA060	45,500	TDR	11.00	—	11.00	10.00	45,500	3.34	28,800	2.48	7.40
		CK5A/CK5BT060	45,500	TDR	11.00	—	11.00	10.00	45,500	3.34	28,800	2.48	7.40
		CK5A/CK5BX060	46,000	TDR	11.00	—	11.00	10.10	45,500	3.32	28,800	2.48	7.40
	<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>												
		CC5A/CD5AA060	44,500	TDR	10.50	—	10.50	9.85	45,000	3.06	28,400	2.36	7.00
		CE3AA060	45,500	TDR	11.00	—	11.00	10.10	45,000	3.22	28,600	2.44	7.00
		CK3BA060	45,500	TDR	11.00	—	11.00	10.05	45,500	3.36	28,800	2.48	7.40
		CK5A/CK5BA060	45,500	TDR	11.00	—	11.00	10.05	45,500	3.36	28,800	2.48	7.40
		CK5A/CK5BT060	45,500	TDR	11.00	—	11.00	10.05	45,500	3.36	28,800	2.48	7.40
		CK5A/CK5BX060	46,000	TDR	11.00	—	11.00	10.15	46,000	3.34	28,800	2.50	7.40
	060-32, 33, 55, 56, 65, 66	*F(A,B)4BN(F,B,C)060	56,000	TDR	10.10	—	—	9.00	58,000	3.16	38,500	2.38	7.5
CC5A/CD5AA060		53,500	NONE	—	10.20	10.20	9.15	56,000	2.94	37,200	2.30	7.0	
CC5A/CD5AW060		55,500	NONE	—	10.50	10.50	9.30	56,500	3.14	37,600	2.40	7.5	
CE3AA060		56,000	NONE	—	10.20	10.20	9.35	56,500	3.16	37,600	2.40	7.5	
CK3BA060		53,500	NONE	—	10.20	10.20	9.30	56,000	3.06	37,200	2.36	7.0	
CK5A/CK5BA060		53,500	NONE	—	10.20	10.20	9.30	56,000	3.06	37,200	2.36	7.0	
CK5A/CK5BT060		53,500	NONE	—	10.20	10.20	9.30	56,000	3.06	37,200	2.36	7.0	
CK5A/CK5BX060		55,500	NONE	—	10.50	10.50	9.40	56,500	3.20	37,800	2.42	7.5	
F(A,B)4AN(F,B,C)060		56,000	TDR	10.10	—	—	9.00	58,000	3.16	38,500	2.38	7.5	
FB4ANB070		56,500	TDR	10.50	—	—	9.00	57,000	3.32	38,000	2.46	7.5	
FB4BNB070		56,500	TDR	10.50	—	—	9.00	57,000	3.32	38,000	2.46	7.5	
FC4BN(F,B)060		56,000	TDR&TXV	10.10	—	—	9.35	58,000	3.16	38,500	2.38	7.5	
FC4BNB070		56,500	TDR&TXV	10.50	—	—	9.00	57,000	3.32	38,000	2.46	7.5	
FC4CN(F,B)060		56,000	TDR&TXV	10.10	—	—	9.35	58,000	3.16	38,500	2.38	7.5	
FC4CNB070		56,500	TDR&TXV	10.50	—	—	9.00	57,000	3.32	38,000	2.46	7.5	
FG3AAA060		54,500	NONE	—	10.40	10.40	9.35	56,500	3.10	37,600	2.38	7.2	
FK4CNB006		56,000	TDR&TXV	10.80	—	—	9.60	53,000	3.20	38,500	2.50	7.6	
FK4DNB006		56,000	TDR&TXV	10.80	—	—	9.60	53,000	3.20	38,500	2.50	7.6	
<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>													
		CC5A/CD5AA060	54,000	TDR	10.50	—	—	9.45	55,500	2.96	37,600	2.38	7.0
		CE3AA060	55,500	TDR	10.50	—	—	9.70	56,000	3.14	37,800	2.46	7.2
		CK3BA060	55,000	TDR	10.50	—	—	9.50	56,000	3.24	38,000	2.48	7.4
		CK5A/CK5BA060	55,000	TDR	10.50	—	—	9.50	56,000	3.24	38,000	2.48	7.4
		CK5A/CK5BT060	55,000	TDR	10.50	—	—	9.50	56,000	3.24	38,000	2.48	7.4
		CK5A/CK5BX060	56,000	TDR	11.00	—	—	9.80	56,000	3.24	38,000	2.52	7.4
<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>													
		CC5A/CD5AA060	54,000	TDR	10.50	—	—	9.40	55,500	2.96	37,600	2.36	7.0
		CC5A/CD5AW060	55,000	TDR	10.50	—	—	9.60	55,000	3.18	37,600	2.44	7.4

See notes on pg. 14.

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS**										
		Cooling						Heating				
		TC	Seasonal Efficiency SEER				EER	High-Temp		Low-Temp		HSPF
			Factory-Supplied Enhancement	Standard Rating	Accessory TXV‡	Carrier Gas Furnace or Accessory TDR†		TC	COP	TC	COP	
	CE3AA060	55,500	TDR	10.50	—	—	9.65	56,000	3.14	38,000	2.46	7.2
	CK3BA060	55,000	TDR	10.50	—	—	9.50	56,000	3.24	38,000	2.48	7.4
	CK5A/CK5BA060	55,000	TDR	10.50	—	—	9.50	56,000	3.24	38,000	2.48	7.4
	CK5A/CK5BT060	55,000	TDR	10.50	—	—	9.45	56,000	3.24	38,000	2.48	7.4
	CK5A/CK5BX060	56,000	TDR	11.00	—	—	9.80	56,000	3.24	38,000	2.50	7.4
<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>												
	CC5A/CD5AA060	54,000	TDR	10.50	—	—	9.50	55,500	2.98	37,400	2.38	7.0
	CC5A/CD5AW060	55,000	TDR	11.00	—	—	9.65	55,000	3.20	37,600	2.44	7.4
	CE3AA060	55,500	TDR	10.50	—	—	9.75	56,000	3.14	37,800	2.46	7.2
	CK3BA060	55,000	TDR	10.50	—	—	9.55	56,000	3.26	38,000	2.50	7.4
	CK5A/CK5BA060	55,000	TDR	10.50	—	—	9.55	56,000	3.26	38,000	2.50	7.4
	CK5A/CK5BT060	55,000	TDR	10.50	—	—	9.55	56,000	3.26	38,000	2.50	7.4
	CK5A/CK5BX060	56,000	TDR	11.00	—	—	9.85	56,000	3.26	37,800	2.52	7.4

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

† In most cases, only 1 method should be used to achieve TDR function. Using more than 1 method in a system may cause degradation in performance. Use either the accessory Time-Delay Relay KAATD0101TDR or a furnace equipped with TDR.

‡ TXV must be hard shutoff type.

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

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

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

**Low-Temperature Heating Standard:** 70°F (21°C) db indoor entering air temperature and 17°F (-8°C) db 15°F (-11°C) wb air entering outdoor unit.

COP — Coefficient of Performance

EER — Energy Efficiency Ratio

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

TC — Total Capacity (Btuh)

TDR — Time-Delay Relay

TXV — Thermostatic Expansion Valve.

# Detailed cooling capacities\*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
<b>38YCC018-34, 35 Outdoor Section With F(A,B)4(A,B)NF018 Indoor Section</b>																
600	72	19.84	10.30	1.89	18.88	9.96	1.99	17.67	9.50	2.08	16.34	8.97	2.19	15.04	8.50	2.27
	67	18.00	12.89	1.85	16.77	12.35	1.94	15.64	11.89	2.03	14.46	11.41	2.11	13.23	10.90	2.19
	63	16.40	12.28	1.82	15.36	11.82	1.89	14.26	11.33	1.97	13.12	10.83	2.05	11.94	10.30	2.13
	62	16.06	15.22	1.81	15.08	14.68	1.89	14.08	14.08	1.97	13.18	13.18	2.06	12.26	12.26	2.15
	57	15.70	15.70	1.80	14.91	14.91	1.88	14.06	14.06	1.97	13.18	13.18	2.06	12.26	12.26	2.15
650	72	19.97	10.49	1.91	19.05	10.20	2.01	17.88	9.76	2.11	16.49	9.23	2.21	15.17	8.75	2.30
	67	18.21	13.32	1.88	17.00	12.81	1.97	15.79	12.32	2.05	14.58	11.83	2.14	13.34	11.32	2.22
	63	16.58	12.70	1.84	15.51	12.22	1.92	14.39	11.73	2.00	13.24	11.22	2.08	12.05	10.68	2.16
	62	16.28	15.77	1.84	15.28	15.28	1.92	14.37	14.37	2.00	13.47	13.47	2.09	12.52	12.52	2.18
	57	16.07	16.07	1.83	15.24	15.24	1.91	14.36	14.36	2.00	13.47	13.47	2.09	12.53	12.53	2.18
700	72	20.06	10.67	1.93	19.16	10.40	2.03	18.02	10.01	2.13	16.64	9.48	2.24	15.29	9.00	2.33
	67	18.36	13.71	1.90	17.12	13.22	1.99	15.91	12.73	2.08	14.69	12.23	2.16	13.44	11.71	2.25
	63	16.72	13.08	1.87	15.63	12.61	1.94	14.50	12.11	2.03	13.35	11.60	2.11	12.13	11.04	2.18
	62	16.48	16.30	1.86	15.53	15.53	1.94	14.64	14.64	2.03	13.73	13.73	2.12	12.75	12.75	2.21
	57	16.39	16.39	1.86	15.53	15.53	1.94	14.65	14.65	2.03	13.74	13.74	2.12	12.76	12.76	2.21

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	018	1.03	1.02	FC4BNF	024	1.06	1.06
	024	1.05	1.02				
CE3AA	024	1.05	1.01	FF1DNA	018	1.00	0.98
CF5AA	024	1.05	1.01		024	1.05	1.02
CK3BA	024	1.05	1.02	FG3AAA	024	1.03	1.05
CK5A/CK5BA	018	1.03	1.02	COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE			
	024	1.05	1.02	CC5A/CD5AA	024	1.03	0.93
CK5A/CK5BW	024	1.05	1.02	CC5A/CD5AW	024	1.03	0.93
F(A,B)4AN(F,C)	018	1.00	1.00	CE3AA	024	1.03	0.93
	024	1.06	1.04	CK3BA	024	1.03	0.92
F(A,B)4BN(F,C)	018	1.00	1.00	CK5A/CK5BA	024	1.03	0.92
	024	1.06	1.04	CK5A/CK5BW	024	1.03	0.92

See notes on pg. 21.

# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
Total	Sens‡	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
<b>38YCC024-34, 35 Outdoor Section With F(A,B)4(A,B)NF024 Indoor Section</b>																
700	72	26.45	13.74	2.37	25.07	13.24	2.52	23.37	12.60	2.68	21.88	12.04	2.84	20.38	11.48	2.98
	67	23.77	17.14	2.31	22.19	16.47	2.46	20.85	15.91	2.59	19.50	15.35	2.73	18.10	14.78	2.86
	63	21.65	16.36	2.26	20.39	15.78	2.38	19.11	15.21	2.52	17.80	14.63	2.64	16.46	14.03	2.77
	62	21.29	20.34	2.25	20.10	19.68	2.38	18.94	18.94	2.51	17.90	17.90	2.65	16.85	16.85	2.79
	57	20.93	20.93	2.24	19.93	19.93	2.37	18.94	18.94	2.51	17.91	17.91	2.65	16.85	16.85	2.79
800	72	26.70	14.23	2.41	25.49	13.85	2.57	23.87	13.29	2.73	22.23	12.67	2.90	20.65	12.11	3.04
	67	24.26	18.25	2.36	22.60	17.56	2.51	21.19	16.98	2.65	19.78	16.40	2.79	18.36	15.81	2.92
	63	22.41	17.59	2.32	20.73	16.78	2.44	19.41	16.19	2.57	18.07	15.60	2.70	16.72	14.99	2.83
	62	21.82	21.64	2.31	20.69	20.69	2.44	19.63	19.63	2.59	18.57	18.57	2.73	17.45	17.45	2.87
	57	21.74	21.74	2.31	20.69	20.69	2.44	19.63	19.63	2.59	18.57	18.57	2.73	17.46	17.46	2.87
900	72	26.87	14.70	2.46	25.79	14.45	2.62	24.22	13.93	2.78	22.49	13.30	2.94	20.86	12.72	3.10
	67	24.65	19.31	2.41	22.94	18.62	2.56	21.43	17.99	2.71	20.01	17.39	2.84	18.57	16.78	2.98
	63	22.38	18.35	2.37	20.99	17.74	2.50	19.65	17.13	2.63	18.29	16.51	2.76	16.93	15.87	2.89
	62	22.45	22.45	2.37	21.31	21.31	2.51	20.21	20.21	2.66	19.12	19.12	2.80	17.94	17.94	2.95
	57	22.46	22.46	2.37	21.32	21.32	2.51	20.22	20.22	2.66	19.12	19.12	2.80	17.95	17.95	2.95

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	024	0.99	1.00	FC4BNF	024	1.00	1.00
	030	1.01	1.01		030	1.01	1.02
CC5A/CD5AW	030	1.01	1.01	FC4CNF	024	1.00	1.00
CE3AA	024	1.00	1.00		030	1.01	1.02
	030	1.02	1.01	FF1DNA	024	0.97	0.96
CF5AA	024	1.00	1.00		030	1.02	1.00
CK3BA	024	1.00	1.01	FK4CNF	001	1.02	0.91
	030	1.01	1.01		002	1.03	0.91
CK5A/CK5BA	024	1.00	1.00	FK4DNF	001	1.02	0.91
	030	1.01	1.01		002	1.03	0.91
CK5A/CK5BW	024	1.00	1.00	COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE			
	030	1.01	1.01	CC5A/CD5AA	030	1.01	0.93
F(A,B)4AN(F,C)	024	1.00	1.00	CC5A/CD5AW	030	1.01	0.93
	030	1.01	1.00	CE3AA	030	1.01	0.93
F(A,B)4BN(F,C)	024	1.00	1.00	CK3BA	030	1.01	0.93
	030	1.01	1.00	CK5A/CK5BA	030	1.01	0.93
	—	—	—	CK5A/CK5BW	030	1.01	0.93

See notes on pg. 21.



# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
<b>38YCC030-34, 35, 52 Outdoor Section With F(A,B)4(A,B)NF030 Indoor Section</b>																
950	72	32.86	17.43	2.90	31.34	16.91	3.11	29.33	16.18	3.31	27.36	15.43	3.49	25.58	14.78	3.67
	67	29.75	22.08	2.85	27.88	21.29	3.04	26.17	20.59	3.20	24.46	19.88	3.37	22.71	19.16	3.54
	63	27.44	21.26	2.81	25.54	20.35	2.96	23.95	19.64	3.12	22.32	18.92	3.28	20.60	18.15	3.43
	62	26.81	26.26	2.79	25.33	25.33	2.95	24.08	24.08	3.13	22.76	22.76	3.30	21.37	21.37	3.47
	57	26.60	26.60	2.79	25.32	25.32	2.95	24.07	24.07	3.12	22.77	22.77	3.30	21.37	21.37	3.47
1050	72	33.12	17.90	2.95	31.68	17.51	3.15	29.73	16.84	3.35	27.71	16.06	3.55	25.80	15.39	3.73
	67	30.17	23.16	2.90	28.20	22.33	3.09	26.45	21.62	3.26	24.72	20.90	3.43	22.96	20.17	3.59
	63	27.80	22.25	2.85	25.84	21.32	3.01	24.24	20.61	3.17	22.58	19.86	3.33	20.83	19.07	3.48
	62	27.35	27.35	2.85	26.03	26.03	3.01	24.74	24.74	3.20	23.37	23.37	3.37	21.95	21.95	3.54
	57	27.33	27.33	2.85	26.03	26.03	3.01	24.75	24.75	3.20	23.37	23.37	3.37	21.95	21.95	3.54
1150	72	33.29	18.37	2.99	31.96	18.09	3.20	29.99	17.45	3.40	27.90	16.67	3.60	26.02	16.00	3.78
	67	30.51	24.18	2.94	28.45	23.35	3.13	26.69	22.62	3.31	24.95	21.89	3.48	23.16	21.12	3.65
	63	28.10	23.21	2.90	26.13	22.27	3.06	24.49	21.54	3.22	22.78	20.76	3.38	21.02	19.93	3.54
	62	28.00	28.00	2.91	26.67	26.67	3.08	25.29	25.29	3.26	23.89	23.89	3.43	22.45	22.45	3.61
	57	28.00	28.00	2.91	26.68	26.68	3.08	25.30	25.30	3.26	23.89	23.89	3.43	22.47	22.47	3.61

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	030	0.99	1.00	FF1DNA	030	1.00	1.00
	036	1.01	1.00	FG3AAA	036	1.00	1.01
CC5A/CD5AW	030	0.99	1.00	FK4CNF	001	1.00	0.92
	036	1.01	1.00		002	1.01	0.93
CE3AA	030	0.99	1.00		003	1.02	0.91
	036	1.00	0.99	FK4DNF	001	1.00	0.92
CF5AA	036	1.00	0.99		002	1.01	0.93
	CK3BA	030	0.99		0.99	003	1.02
036		1.01	0.99	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>			
CK5A/CK5BA	030	0.99	0.99	CC5A/CD5AA	036	1.01	0.92
	036	1.01	0.99	CE3AA	036	0.99	0.92
CK5A/CK5BT	036	1.01	0.99	CK3BA	036	1.01	0.92
CK5A/CK5BW	030	0.99	0.99	CK5A/CK5BA	036	1.01	0.92
	036	1.01	0.99	CK5A/CK5BT	036	1.01	0.92
F(A,B)4AN(F,C)	030	1.00	1.00	<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>			
	036	1.01	1.01	CC5A/CD5AA	036	1.01	0.91
F(A,B)4BN(F,C)	030	1.00	1.00	CC5A/CD5AW	036	1.01	0.91
	036	1.01	1.01	CE3AA	036	1.01	0.92
FC4BNF	030	1.00	1.02	CK3BA	036	1.01	0.91
	036	1.01	1.05	CK5A/CK5BA	036	1.01	0.91
FC4CNF	030	1.00	1.02	CK5A/CK5BW	036	1.01	0.91
	036	1.01	1.05	—	—	—	—

See notes on pg. 21.

# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
<b>38YCC036-33, 34, 55, 56, 65, 66 Outdoor Section With F(A,B)4(A,B)N(F,C)036 Indoor Section</b>																
1050	72	39.0	19.2	3.56	37.2	18.5	3.79	35.2	17.8	4.00	33.3	17.1	4.22	31.3	16.5	4.45
	67	35.3	24.3	3.46	33.5	23.5	3.66	31.8	22.8	3.85	29.9	22.1	4.06	28.1	21.4	4.27
	63††	32.7	23.5	3.37	31.0	22.7	3.56	29.2	22.0	3.75	27.5	21.2	3.94	25.7	20.5	4.14
	62	32.0	29.1	3.35	30.4	28.3	3.54	28.8	27.5	3.73	27.2	26.6	3.92	25.6	25.6	4.13
	57	30.9	30.9	3.31	29.6	29.6	3.51	28.3	28.3	3.70	27.0	27.0	3.91	25.6	25.6	4.13
1200	72	39.7	20.1	3.65	37.8	19.4	3.88	35.8	18.7	4.10	33.8	18.0	4.32	31.7	17.3	4.54
	67	36.0	25.8	3.55	34.2	25.1	3.75	32.3	24.3	3.95	30.4	23.6	4.15	28.5	22.9	4.36
	63††	33.3	24.9	3.46	31.6	24.2	3.65	29.8	23.4	3.84	28.0	22.6	4.03	26.2	21.9	4.23
	62	32.8	31.1	3.44	31.1	30.2	3.63	29.6	29.3	3.83	28.0	28.0	4.03	26.6	26.6	4.25
	57	32.2	32.2	3.42	30.8	30.8	3.62	29.4	29.4	3.82	28.0	28.0	4.03	26.5	26.5	4.25
1350	72	40.0	20.8	3.73	38.3	20.3	3.97	36.3	19.6	4.19	34.2	18.9	4.41	32.1	18.2	4.63
	67	36.5	27.3	3.64	34.7	26.5	3.83	32.8	25.8	4.03	30.8	25.0	4.24	28.8	24.2	4.45
	63††	33.8	26.3	3.54	32.0	25.5	3.73	30.2	24.8	3.92	28.3	24.0	4.12	26.4	23.2	4.32
	62	33.5	32.9	3.53	31.8	31.7	3.72	30.3	30.3	3.93	28.8	28.8	4.14	27.3	27.3	4.37
	57	33.2	33.2	3.53	31.8	31.8	3.72	30.3	30.3	3.93	28.8	28.8	4.14	27.3	27.3	4.37

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	1.00	0.97	CK5A/CK5BE	042	1.02	0.95
	042	1.02	0.99				
<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>							
CC5A/CD5AW	036	1.00	0.97	CC5A/CD5AA	042	1.01	0.93
	042	1.01	1.00	CE3AA	042	1.02	0.93
CE3AA	036	1.00	0.97	CK3BA	042	1.01	0.93
	042	1.01	0.99	CK5A/CK5BA	042	1.01	0.93
CF5AA	036	1.00	0.97	CK5A/CK5BE	042	1.02	0.93
CK3BA	036	1.00	0.97	CK5A/CK5BT	042	1.01	0.93
	042	1.02	0.99	<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>			
CK5A/CK5BA	036	1.00	0.97	CC5A/CD5AA	042	1.01	0.92
	042	1.02	0.99	CC5A/CD5AW	042	1.00	0.91
CK5A/CK5BT	036	1.00	0.97	CE3AA	042	1.02	0.93
	042	1.02	0.99	CK3BA	042	1.02	0.93
CK5A/CK5BW	036	1.00	0.97	CK5A/CK5BA	042	1.02	0.92
F(A,B)4AN(F,B,C)	042	1.02	0.99	CK5A/CK5BT	042	1.01	0.92
<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>							
F(A,B)4AN(F,C)	036	1.00	1.00				
F(A,B)4BN(F,B,C)	042	1.02	0.99	CC5A/CD5AA	042	1.01	0.92
F(A,B)4BN(F,C)	036	1.00	1.00	CC5A/CD5AW	042	1.00	0.92
FC4BN(F,B)	042	1.02	0.99	CE3AA	042	1.02	0.93
FC4BNF	036	1.00	1.00	CK3BA	042	1.01	0.93
FC4CN(F,B)	042	1.02	0.99	CK5A/CK5BA	042	1.01	0.93
FC4CNF	036	1.00	1.00	CK5A/CK5BT	042	1.01	0.93
<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>							
FG3AAA	036	0.99	0.97				
FK4CNF	001	0.99	0.91	CC5A/CD5AA	042	1.01	0.91
	002	0.99	0.91	CC5A/CD5AW	042	1.01	0.92
	003	1.00	0.89	CE3AA	042	1.02	0.92
FK4DNF	001	0.99	0.91	CK3BA	042	1.01	0.92
	002	0.99	0.91	CK5A/CK5BA	042	1.02	0.93
	003	1.00	0.89	CK5A/CK5BT	042	1.02	0.93
<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>							
CE3AA	042	1.01	0.94				

See notes on pg. 21.

# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†	Total System kW**	Total System kW**	Capacity MBtu/h†	Total System kW**	Total System kW**	Capacity MBtu/h†	Total System kW**	Total System kW**	Capacity MBtu/h†	Total System kW**	Total System kW**	Capacity MBtu/h†	Total System kW**	Total System kW**
CFM	EWB															
<b>38YCC042-34, 36, 57, 59, 67, 69 Outdoor Section With F(A,B)4(A,B)N(F,B,C)042 Indoor Section</b>																
1225	72	44.6	22.1	4.15	42.9	21.6	4.54	41.1	21.0	4.95	39.1	20.3	5.36	36.8	19.5	5.78
	67	41.7	28.8	4.08	39.9	28.1	4.45	37.9	27.4	4.83	35.7	26.5	5.22	33.5	25.6	5.60
	63††	38.9	28.1	4.01	37.1	27.3	4.36	35.1	26.5	4.72	33.0	25.6	5.09	30.9	24.7	5.45
	62	38.3	34.9	3.99	36.5	34.1	4.34	34.6	33.1	4.70	32.7	32.1	5.07	30.8	30.7	5.45
	57	37.0	37.0	3.95	35.6	35.6	4.31	34.1	34.1	4.68	32.5	32.5	5.06	30.7	30.7	5.45
1400	72	45.2	23.0	4.24	43.5	22.5	4.64	41.7	21.9	5.05	39.6	21.3	5.47	37.3	20.6	5.89
	67	42.4	30.6	4.17	40.5	29.9	4.55	38.5	29.2	4.94	36.3	28.3	5.33	33.9	27.4	5.71
	63††	39.7	29.9	4.11	37.7	29.0	4.46	35.7	28.2	4.83	33.5	27.3	5.20	31.3	26.3	5.56
	62	39.1	37.3	4.09	37.3	36.3	4.45	35.5	35.2	4.82	33.6	33.6	5.20	31.8	31.8	5.59
	57	38.5	38.5	4.08	36.9	36.9	4.44	35.3	35.3	4.81	33.6	33.6	5.20	31.8	31.8	5.59
1575	72	45.7	23.9	4.34	44.0	23.4	4.74	42.1	22.9	5.15	39.9	22.2	5.57	37.6	21.5	5.99
	67	42.7	32.2	4.26	41.0	31.7	4.65	38.9	30.9	5.04	36.7	30.0	5.43	34.3	29.1	5.82
	63††	40.2	31.5	4.21	38.2	30.7	4.56	36.1	29.8	4.93	33.9	28.8	5.30	31.6	27.8	5.67
	62	39.9	39.3	4.20	38.1	38.0	4.56	36.4	36.4	4.93	34.5	34.5	5.33	32.6	32.6	5.72
	57	39.6	39.6	4.19	38.0	38.0	4.56	36.3	36.3	4.94	34.5	34.5	5.33	32.6	32.6	5.72

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	042	1.00	0.99	CE3AA	048	1.00	0.93
CC5A/CD5AC	048	1.00	0.99	CK3BA	048	1.00	0.92
CC5A/CD5AW	042	1.00	0.99	CK5A/CK5BA	048	1.00	0.92
	048	1.01	1.00	CK5A/CK5BT	048	1.00	0.92
CD5AA	048	1.01	1.00	COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE			
CE3AA	042	1.01	1.00	CC5A/CD5AC	048	0.99	0.91
	048	1.01	0.99	CC5A/CD5AW	048	1.00	0.91
CF5AA	048	1.00	0.98	CD5AA	048	1.00	0.91
CK3BA	042	1.00	0.99	CE3AA	048	1.00	0.92
	048	1.01	1.00	CK3BA	048	1.00	0.91
CK5A/CK5BA	042	1.00	0.99	CK5A/CK5BA	048	1.00	0.91
	048	1.01	1.00	CK5A/CK5BT	048	1.00	0.91
CK5A/CK5BE	042	1.01	1.00	CK5A/CK5BW	048	1.00	0.91
CK5A/CK5BT	042	1.00	0.99	COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE			
	048	1.01	1.00	CC5A/CD5AC	048	0.99	0.91
CK5A/CK5BW	048	1.01	1.00	CC5A/CD5AW	048	1.00	0.91
F(A,B)4AN(F,B,C)	042	1.00	1.00	CD5AA	048	1.00	0.91
	048	1.01	1.00	CE3AA	048	1.00	0.92
F(A,B)4BN(F,B,C)	042	1.00	1.00	CK3BA	048	1.00	0.91
	048	1.01	1.00	CK5A/CK5BA	048	1.00	0.91
FC4BN(F,B)	042	1.00	0.99	CK5A/CK5BT	048	1.00	0.91
	048	1.01	1.00	CK5A/CK5BW	048	1.00	0.91
FC4CN(F,B)	042	1.00	0.99	COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE			
	048	1.01	1.00	CC5A/CD5AC	048	0.99	0.91
FG3AAA	048	1.00	0.98	CC5A/CD5AW	048	1.00	0.91
FK4CNF	003	0.99	0.91	CD5AA	048	1.00	0.91
	005	1.01	0.89	CE3AA	048	1.00	0.92
FK4DNF	003	0.99	0.91	CK3BA	048	1.00	0.91
	005	1.01	0.89	CK5A/CK5BA	048	1.00	0.91
COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE				CK5A/CK5BT	048	1.00	0.91
CC5A/CD5AC	048	0.99	0.92	CK5A/CK5BW	048	1.00	0.91
CD5AA	048	1.00	0.92		—	—	—

See notes on pg. 21.

# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
<b>38YCC048-32, 34, 56, 57, 66, 67 Outdoor Section With F(A,B)4BN(F,B,C)048 Indoor Section</b>																
1400	72	51.17	26.43	4.51	49.25	25.76	4.94	46.90	24.89	5.41	44.32	23.89	5.93	41.67	22.91	6.49
	67	46.86	33.30	4.42	44.51	32.28	4.84	42.19	31.31	5.28	39.87	30.33	5.76	37.35	29.29	6.27
	63††	43.21	32.03	4.34	41.12	31.08	4.71	39.02	30.10	5.16	36.75	29.08	5.63	34.32	28.00	6.11
	62	42.43	39.67	4.31	40.43	38.62	4.69	38.44	37.54	5.14	36.34	36.34	5.62	34.37	34.37	6.12
	57	41.40	41.40	4.28	39.77	39.77	4.67	38.11	38.11	5.13	36.32	36.32	5.62	34.37	34.37	6.12
1650	72	51.74	27.56	4.63	49.99	27.07	5.06	47.74	26.32	5.53	45.14	25.41	6.05	42.38	24.37	6.61
	67	47.78	35.81	4.55	45.50	34.80	4.97	43.00	33.81	5.43	40.56	32.81	5.91	37.91	31.71	6.41
	63††	44.15	34.39	4.46	41.96	33.41	4.86	39.70	32.41	5.29	37.36	31.36	5.77	34.86	30.24	6.25
	62	43.62	42.85	4.46	41.58	41.58	4.85	39.73	39.73	5.30	37.82	37.82	5.79	35.79	35.79	6.30
	57	43.32	43.32	4.45	41.56	41.56	4.85	39.74	39.74	5.30	37.83	37.83	5.79	35.80	35.80	6.30
1800	72	51.89	28.16	4.70	50.26	27.79	5.13	48.09	27.12	5.61	45.46	26.27	6.13	42.45	25.13	6.68
	67	48.13	37.13	4.62	45.88	36.27	5.04	43.37	35.26	5.51	40.85	34.21	5.99	38.17	33.09	6.49
	63††	44.66	35.83	4.54	42.32	34.76	4.94	40.01	33.73	5.37	37.63	32.66	5.84	35.12	31.52	6.33
	62	44.33	44.33	4.54	42.42	42.42	4.95	40.52	40.52	5.40	38.57	38.57	5.89	36.49	36.49	6.41
	57	44.32	44.32	4.54	42.42	42.42	4.95	40.53	40.53	5.40	38.57	38.57	5.89	36.49	36.49	6.41

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.99	0.98	FK4DNB	006	1.03	0.90
CC5A/CD5AC	048	0.96	0.96	COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE			
CC5A/CD5AW	048	0.99	0.99	CE3AA	060	1.00	0.93
	060	1.01	0.98	COILS + 58CV(A,X)110-20 VARIABLE-SPEED FURNACE			
CD5AA	048	0.99	0.98	CC5A/CD5AA	060	0.97	0.92
CE3AA	048	0.99	0.97	CE3AA	060	1.00	0.93
	060	1.01	0.98	CK3BA	060	1.00	0.93
CF5AA	048	0.98	0.96	CK5A/CK5BA	060	1.00	0.93
CK3BA	048	0.99	0.98	CK5A/CK5BT	060	1.00	0.93
	060	0.99	0.96	CK5A/CK5BX	060	1.01	0.93
CK5A/CK5BA	048	0.99	0.98	COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE			
	060	0.99	0.96	CC5A/CD5AA	060	0.98	0.92
CK5A/CK5BT	048	0.99	0.98	CE3AA	060	1.00	0.92
	060	0.99	0.96	CK3BA	060	1.00	0.92
CK5A/CK5BW	048	0.99	0.98	CK5A/CK5BA	060	1.00	0.91
CK5A/CK5BX	060	1.01	0.97	CK5A/CK5BT	060	1.00	0.92
F(A,B)4BN(F,B,C)	048	1.00	1.00	CK5A/CK5BX	060	1.01	0.92
	060	1.02	1.02	COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE			
FB4BNB	070	1.03	1.00	CC5A/CD5AA	060	0.98	0.91
FC4CN(F,B)	048	1.01	1.01	CE3AA	060	1.00	0.91
	060	1.02	1.01	CK3BA	060	1.00	0.91
FC4CNB	070	1.03	0.99	CK5A/CK5BA	060	1.00	0.91
FG3AAA	048	0.98	0.98	CK5A/CK5BT	060	1.00	0.91
FK4DNF	005	1.01	0.91	CK5A/CK5BX	060	1.01	0.91

See notes on pg. 21.

# Detailed cooling capacities\* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	
<b>38YCC060-32, 33, 55, 56, 65, 66 Outdoor Section With F(A,B)4(A,B)N(F,B)060 Indoor Section</b>																
1800	72	63.8	31.9	5.67	60.9	30.9	6.17	57.9	29.9	6.70	54.8	28.8	7.29	51.6	27.7	7.93
	67	58.2	41.1	5.55	55.5	40.0	6.03	52.6	38.8	6.57	49.8	37.7	7.15	46.8	36.6	7.78
	63††	54.1	39.8	5.46	51.5	38.7	5.94	48.9	37.6	6.47	46.1	36.4	7.04	43.2	35.2	7.66
	62	53.2	49.8	5.44	50.7	48.6	5.93	48.3	47.3	6.45	45.8	45.7	7.03	43.4	43.4	7.67
	57	52.0	52.0	5.42	50.0	50.0	5.91	48.0	48.0	6.45	45.8	45.8	7.03	43.4	43.4	7.67
2000	72	64.4	33.1	5.79	61.5	32.1	6.29	58.4	31.0	6.82	55.3	29.9	7.41	51.9	28.8	8.05
	67	58.8	43.1	5.67	56.0	42.0	6.15	53.2	40.9	6.68	50.2	39.7	7.26	47.1	38.5	7.89
	63††	54.7	41.7	5.58	52.1	40.6	6.06	49.3	39.4	6.58	46.6	38.3	7.16	43.6	37.0	7.78
	62	54.0	52.4	5.56	51.6	51.0	6.04	49.2	49.2	6.58	46.9	46.9	7.17	44.5	44.5	7.81
	57	53.5	53.5	5.55	51.4	51.4	6.04	49.2	49.2	6.58	46.9	46.9	7.17	44.5	44.5	7.81
2200	72	64.9	34.2	5.90	62.0	33.2	6.40	58.9	32.1	6.94	55.6	31.0	7.53	52.2	29.9	8.17
	67	59.3	45.0	5.78	56.5	43.9	6.26	53.6	42.8	6.79	50.6	41.6	7.38	47.4	40.4	8.01
	63††	55.1	43.5	5.69	52.4	42.4	6.17	49.7	41.2	6.70	46.9	40.0	7.27	43.9	38.7	7.89
	62	54.8	54.5	5.68	52.6	52.6	6.17	50.3	50.3	6.71	47.9	47.9	7.30	45.4	45.4	7.94
	57	54.7	54.7	5.68	52.5	52.5	6.17	50.3	50.3	6.71	47.9	47.9	7.30	45.4	45.4	7.94

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.96	0.94	CK3BA	060	0.98	0.93
CC5A/CD5AW	060	0.99	0.96	CK5A/CK5BA	060	0.98	0.93
CE3AA	060	1.00	0.96	CK5A/CK5BT	060	0.98	0.93
CK3BA	060	0.96	0.92	CK5A/CK5BX	060	1.00	0.92
CK5A/CK5BA	060	0.96	0.92	<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>			
CK5A/CK5BT	060	0.96	0.92	CC5A/CD5AA	060	0.96	0.92
CK5A/CK5BX	060	0.99	0.95	CC5A/CD5AW	060	0.98	0.92
F(A,B)4AN(F,B,C)	060	1.00	1.00	CE3AA	060	0.99	0.92
F(A,B)4BN(F,B,C)	060	1.00	1.00	CK3BA	060	0.98	0.93
FB4ANB	070	1.01	1.01	CK5A/CK5BA	060	0.98	0.93
FB4BNB	070	1.01	1.01	CK5A/CK5BT	060	0.98	0.94
FC4BN(F,B)	060	1.00	0.96	CK5A/CK5BX	060	1.00	0.92
FC4BNB	070	1.01	1.01	<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>			
FC4CN(F,B)	060	1.00	0.96	CC5A/CD5AA	060	0.96	0.91
FC4CNB	070	1.01	1.01	CC5A/CD5AW	060	0.98	0.92
FG3AAA	060	0.97	0.94	CE3AA	060	0.99	0.91
FK4CNB	006	1.00	0.94	CK3BA	060	0.98	0.93
FK4DNB	006	1.00	0.94	CK5A/CK5BA	060	0.98	0.93
<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>				CK5A/CK5BT	060	0.98	0.93
CC5A/CD5AA	060	0.96	0.92	CK5A/CK5BX	060	1.00	0.91
CE3AA	060	0.99	0.92	—	—	—	—

NOTE: When the required data falls 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 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 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).

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

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

EWB — Entering Wet Bulb

# Heat pump heating performance

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
EDB	CFM	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡
<b>38YCC018-34, 35 Outdoor Section With F(A,B)4(A,B)NF018 Indoor Section</b>																									
65	600	5.34	4.91	1.22	7.51	6.90	1.32	9.83	8.97	1.41	12.34	10.96	1.51	14.97	13.63	1.62	17.76	17.76	1.74	20.88	20.88	1.90	24.33	24.33	2.06
	650	5.44	5.01	1.24	7.64	7.02	1.34	9.99	9.11	1.43	12.53	11.12	1.53	15.16	13.80	1.63	17.96	17.96	1.75	21.14	21.14	1.91	24.40	24.40	2.05
	700	5.54	5.10	1.26	7.75	7.12	1.36	10.13	9.23	1.45	12.68	11.26	1.54	15.33	13.95	1.65	18.14	18.14	1.77	21.33	21.33	1.92	24.49	24.49	2.05
70	600	4.84	4.45	1.22	7.05	6.48	1.32	9.36	8.54	1.42	11.89	10.56	1.53	14.52	13.21	1.64	17.29	17.29	1.77	20.40	20.40	1.92	23.82	23.82	2.10
	650	4.94	4.54	1.24	7.17	6.59	1.34	9.52	8.68	1.44	12.07	10.72	1.54	14.72	13.39	1.65	17.50	17.50	1.78	20.60	20.60	1.93	24.07	24.07	2.10
	700	5.03	4.63	1.26	7.28	6.69	1.36	9.65	8.79	1.46	12.23	10.86	1.56	14.89	13.55	1.66	17.68	17.68	1.79	20.81	20.81	1.94	24.17	24.17	2.10
75	600	4.31	3.97	1.21	6.57	6.04	1.33	8.87	8.08	1.43	11.41	10.13	1.54	14.05	12.79	1.66	16.82	16.82	1.79	19.90	19.90	1.95	23.29	23.29	2.13
	650	4.41	4.05	1.23	6.69	6.15	1.34	9.01	8.22	1.45	11.58	10.29	1.56	14.25	12.97	1.67	17.04	17.04	1.80	20.11	20.11	1.95	23.60	23.60	2.14
	700	4.50	4.14	1.25	6.80	6.25	1.36	9.15	8.34	1.46	11.74	10.43	1.57	14.43	13.13	1.68	17.22	17.22	1.81	20.33	20.33	1.97	23.79	23.79	2.14

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	018	0.97	0.99	FC4BNF	024	1.03	0.98
	024	1.00	0.97		FC4CNF	024	1.03
CE3AA	024	1.00	0.97	FF1DNA	018	1.00	0.99
CF5AA	024	1.00	0.97		024	1.01	0.95
CK3BA	024	1.00	0.95	FG3AAA	024	0.96	0.94
CK5A/CK5BA	018	0.97	0.96	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>			
	024	1.00	0.95	CC5A/CD5AA	024	0.97	0.95
CK5A/CK5BW	024	1.00	0.95	CC5A/CD5AW	024	0.97	0.95
F(A,B)4AN(F,C)	018	1.00	1.00	CE3AA	024	0.97	0.95
	024	1.03	0.99	CK3BA	024	0.97	0.90
F(A,B)4BN(F,C)	018	1.00	1.00	CK5A/CK5BA	024	0.97	0.90
	024	1.03	0.99	CK5A/CK5BW	024	0.97	0.90

See notes on pg. 28.

# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
EDB	CFM	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡	Total	Integr†	kW‡
<b>38YCC024-34, 35 Outdoor Section With F(A,B)4(A,B)NF024 Indoor Section</b>																									
65	700	7.77	7.15	1.33	10.24	9.41	1.45	12.96	11.82	1.58	15.96	14.18	1.72	19.24	17.51	1.87	22.90	22.90	2.04	26.74	26.74	2.21	29.33	29.33	2.33
	800	7.96	7.32	1.37	10.46	9.61	1.49	13.23	12.07	1.61	16.28	14.46	1.74	19.62	17.86	1.88	23.30	23.30	2.05	26.45	26.45	2.18	28.46	28.46	2.27
	900	8.13	7.48	1.40	10.65	9.79	1.52	13.49	12.30	1.64	16.55	14.70	1.76	19.93	18.14	1.91	23.60	23.60	2.06	25.84	25.84	2.15	27.19	27.19	2.20
70	700	7.38	6.79	1.35	9.85	9.05	1.47	12.54	11.43	1.60	15.53	13.80	1.75	18.76	17.07	1.90	22.38	22.38	2.08	26.43	26.43	2.28	29.29	29.29	2.41
	800	7.57	6.97	1.38	10.07	9.25	1.50	12.81	11.68	1.63	15.83	14.06	1.77	19.14	17.42	1.92	22.80	22.80	2.10	26.37	26.37	2.24	28.61	28.61	2.35
	900	7.74	7.12	1.41	10.27	9.43	1.54	13.04	11.89	1.66	16.12	14.31	1.79	19.45	17.70	1.94	23.18	23.18	2.12	26.00	26.00	2.22	27.86	27.86	2.30
75	700	6.98	6.43	1.36	9.46	8.70	1.49	12.14	11.07	1.63	15.11	13.42	1.78	18.30	16.65	1.94	21.86	21.86	2.12	25.96	25.96	2.34	29.20	29.20	2.49
	800	7.15	6.58	1.39	9.68	8.89	1.52	12.39	11.30	1.65	15.41	13.69	1.80	18.66	16.98	1.95	22.29	22.29	2.13	26.17	26.17	2.31	28.65	28.65	2.43
	900	7.34	6.75	1.43	9.87	9.07	1.55	12.61	11.50	1.68	15.67	13.92	1.82	18.97	17.26	1.97	22.63	22.63	2.15	25.97	25.97	2.29	28.02	28.02	2.39

## Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	024	1.00	1.03	FC4BNF	024	1.00	1.00
	030	1.00	1.03		030	1.00	0.99
CC5A/CD5AW	030	1.00	1.03	FC4CNF	024	1.00	1.00
CE3AA	024	1.00	1.02		030	1.00	0.99
	CF5AA	024	1.00	1.02	FF1DNA	024	1.00
030		1.00	0.99	030		1.00	0.99
CK3BA	024	1.00	0.99	FK4CNF	001	0.96	0.91
	030	1.00	1.01		002	0.92	0.87
CK5A/CK5BA	024	1.00	1.00	FK4DNF	001	0.96	0.91
	030	1.00	1.01		002	0.92	0.87
CK5A/CK5BW	024	1.00	1.00	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>			
	030	1.00	1.01	CC5A/CD5AA	030	0.90	0.90
F(A,B)4AN(F,C)	024	1.00	1.00	CC5A/CD5AW	030	0.90	0.90
	030	1.00	0.99	CE3AA	030	0.92	0.89
F(A,B)4BN(F,C)	024	1.00	1.00	CK3BA	030	0.92	0.88
	030	1.00	0.99	CK5A/CK5BA	030	0.92	0.88
	—	—	—	CK5A/CK5BW	030	0.92	0.88

See notes on pg. 28.

# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡			
EDB	CFM	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt	Total	Integt				
<b>38YCC030-33, 35, 52 Outdoor Section With F(A,B)4(A,B)NF030 Indoor Section</b>																									
65	950	10.13	9.32	1.84	13.31	12.23	1.99	16.79	15.31	2.14	20.55	18.26	2.29	24.67	22.45	2.46	29.27	29.27	2.66	34.26	34.26	2.85	37.79	37.79	2.99
	1050	10.31	9.49	1.88	13.52	12.42	2.02	17.04	15.54	2.17	20.82	18.49	2.32	24.99	22.74	2.48	29.63	29.63	2.67	34.09	34.09	2.83	36.99	36.99	2.94
	1150	10.48	9.65	1.91	13.71	12.60	2.05	17.27	15.75	2.20	21.06	18.70	2.34	25.28	23.00	2.51	29.94	29.94	2.70	33.66	33.66	2.82	35.57	35.57	2.88
70	950	8.94	8.22	1.85	12.79	11.76	2.01	16.26	14.83	2.17	20.04	17.79	2.33	24.08	21.91	2.51	28.63	28.63	2.71	33.74	33.74	2.93	37.77	37.77	3.09
	1050	9.78	9.00	1.89	13.01	11.95	2.04	16.51	15.05	2.20	20.32	18.05	2.36	24.40	22.21	2.53	29.00	29.00	2.72	33.87	33.87	2.91	37.11	37.11	3.04
	1150	9.97	9.17	1.93	13.19	12.13	2.07	16.73	15.25	2.23	20.57	18.27	2.38	24.69	22.47	2.55	29.31	29.31	2.74	33.69	33.69	2.90	36.29	36.29	3.00
75	950	9.07	8.35	1.87	12.27	11.28	2.03	15.74	14.35	2.20	19.51	17.33	2.37	23.52	21.40	2.55	28.00	28.00	2.76	33.03	33.03	3.01	37.61	37.61	3.18
	1050	9.27	8.52	1.91	12.48	11.46	2.06	15.98	14.57	2.23	19.80	17.58	2.40	23.83	21.69	2.57	28.38	28.38	2.78	33.45	33.45	3.00	37.12	37.12	3.14
	1150	9.43	8.67	1.94	12.67	11.64	2.10	16.20	14.77	2.26	20.05	17.80	2.42	24.10	21.93	2.60	28.68	28.68	2.80	33.50	33.50	2.99	36.61	36.61	3.11

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	030	0.99	1.01	FF1DNA	030	1.00	0.99
	036	1.01	0.99	FG3AAA	036	1.00	1.00
CC5A/CD5AW	030	0.99	1.01	FK4CNF	001	0.97	0.94
	036	1.01	0.99		002	0.97	0.92
CE3AA	030	1.00	1.00		003	0.97	0.90
	036	1.00	1.00	FK4DNF	001	0.97	0.94
CF5AA	036	1.00	0.99		002	0.97	0.92
	CK3BA	030	0.99		0.99	003	0.97
036		1.01	0.98	<b>COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE</b>			
CK5A/CK5BA	030	0.99	0.99	CC5A/CD5AA	036	0.94	0.91
	036	1.01	0.98	CE3AA	036	0.94	0.93
CK5A/CK5BT	036	1.01	0.98	CK3BA	036	0.94	0.90
CK5A/CK5BW	030	0.99	0.99	CK5A/CK5BA	036	0.94	0.90
	036	1.01	0.98	CK5A/CK5BT	036	0.94	0.90
F(A,B)4AN(F,C)	030	1.00	1.00	<b>COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE</b>			
	036	1.01	1.01	CC5A/CD5AA	036	0.94	0.90
F(A,B)4BN(F,C)	030	1.00	1.00	CC5A/CD5AW	036	0.94	0.90
	036	1.01	1.01	CE3AA	036	0.94	0.92
FC4BNF	030	1.00	1.00	CK3BA	036	0.94	0.89
	036	1.01	1.01	CK5A/CK5BA	036	0.94	0.89
FC4CNF	030	1.00	1.00	CK5A/CK5BW	036	0.94	0.89
	036	1.01	1.01	—	—	—	—

See notes on pg. 28.



# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
EDB	CFM	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡	Total	Integ†	kW‡
<b>38YCC036-33, 34, 55, 56, 65, 66 Outdoor Section With F(A,B)4(A,B)N(F,C)036 Indoor Section</b>																									
65	1050	13.7	12.6	2.32	17.4	16.0	2.50	21.3	19.4	2.69	25.3	22.5	2.87	30.0	27.3	3.09	35.2	35.2	3.33	40.6	40.6	3.60	46.9	46.9	3.96
	1200	14.0	12.9	2.37	17.7	16.3	2.55	21.7	19.8	2.74	25.8	22.9	2.91	30.5	27.8	3.12	35.7	35.7	3.35	41.2	41.2	3.63	47.6	47.6	3.98
	1350	14.4	13.2	2.44	18.0	16.6	2.61	22.0	20.1	2.79	26.1	23.2	2.96	30.9	28.2	3.16	36.2	36.2	3.39	41.7	41.7	3.66	48.1	48.1	4.01
70	1050	13.0	12.0	2.33	16.8	15.5	2.52	20.7	18.9	2.72	24.7	21.9	2.92	29.4	26.7	3.14	34.5	34.5	3.40	39.9	39.9	3.68	46.0	46.0	4.04
	1200	13.4	12.3	2.39	17.2	15.8	2.58	21.1	19.3	2.77	25.2	22.3	2.96	29.9	27.2	3.18	35.0	35.0	3.42	40.5	40.5	3.70	46.7	46.7	4.06
	1350	13.7	12.6	2.45	17.5	16.1	2.64	21.5	19.6	2.83	25.6	22.7	3.01	30.3	27.6	3.22	35.5	35.5	3.46	41.0	41.0	3.73	47.3	47.3	4.08
75	1050	12.3	11.4	2.34	16.3	15.0	2.54	20.2	18.4	2.75	24.1	21.4	2.96	28.7	26.1	3.20	33.8	33.8	3.46	39.2	39.2	3.76	45.2	45.2	4.12
	1200	12.7	11.7	2.40	16.6	15.3	2.60	20.6	18.7	2.81	24.6	21.8	3.01	29.2	26.6	3.24	34.4	34.4	3.49	39.8	39.8	3.78	45.9	45.9	4.14
	1350	13.0	12.0	2.46	17.0	15.6	2.66	20.9	19.1	2.86	25.0	22.2	3.06	29.7	27.0	3.28	34.8	34.8	3.53	40.3	40.3	3.81	46.4	46.4	4.16

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	1.00	0.98	CK5A/CK5BE	042	COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE	
	042	1.00	0.98			0.98	0.92
CC5A/CD5AW	036	1.00	0.98	CC5A/CD5AA	042	0.97	0.92
	042	1.00	0.99	CE3AA	042	0.97	0.92
CE3AA	036	0.99	0.99	CK3BA	042	0.97	0.92
	042	1.00	0.97	CK5A/CK5BA	042	0.97	0.92
CF5AA	036	0.99	0.98	CK5A/CK5BE	042	0.97	0.91
CK3BA	036	1.00	0.97	CK5A/CK5BT	042	0.97	0.92
	042	1.00	0.97	COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE			
CK5A/CK5BA	036	1.00	0.97	CC5A/CD5AA	042	0.96	0.91
	042	1.00	0.97	CC5A/CD5AW	042	0.96	0.92
CK5A/CK5BT	036	1.00	0.97	CE3AA	042	0.97	0.92
	042	1.00	0.97	CK3BA	042	0.97	0.91
CK5A/CK5BW	036	1.00	0.97	CK5A/CK5BA	042	0.97	0.91
F(A,B)4AN(F,B,C)	042	1.01	0.99	CK5A/CK5BT	042	0.97	0.91
F(A,B)4AN(F,C)	036	1.00	1.00	COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE			
F(A,B)4BN(F,B,C)	042	1.01	0.99	CC5A/CD5AA	042	0.97	0.92
F(A,B)4BN(F,C)	036	1.00	1.00	CC5A/CD5AW	042	0.96	0.92
FC4BN(F,B)	042	1.01	0.99	CE3AA	042	0.97	0.92
FC4BNF	036	1.00	1.00	CK3BA	042	0.97	0.92
FC4CN(F,B)	042	1.01	0.99	CK5A/CK5BA	042	0.97	0.92
FC4CNF	036	1.00	1.00	CK5A/CK5BT	042	0.97	0.92
FG3AAA	036	0.97	0.97	COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE			
FK4CNF	001	0.97	0.94	CC5A/CD5AA	042	0.96	0.91
	002	0.97	0.92	CC5A/CD5AW	042	0.96	0.92
	003	0.97	0.91	CE3AA	042	0.97	0.92
FK4DNF	001	0.97	0.94	CK3BA	042	0.97	0.91
	002	0.97	0.92	CK5A/CK5BA	042	0.97	0.91
	003	0.97	0.91	CK5A/CK5BT	042	0.97	0.91
COILS + 58CV(A,X)070-12 VARIABLE-SPEED FURNACE							
CE3AA	042	0.97	0.93	—			

See notes on pg. 28.

# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†	Capacity MBtuh	Total Power kW†				
EDB	CFM	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†		
<b>38YCC042-34, 36, 57, 59, 67, 69 Outdoor Section With F(A,B)4(A,B)N(F,B,C)042 Indoor Section</b>																									
65	1225	18.8	17.3	2.91	22.7	20.9	3.13	27.0	24.6	3.36	31.3	27.8	3.57	36.3	33.0	3.82	41.8	41.8	4.11	48.1	48.1	4.46	55.1	55.1	4.90
	1400	19.1	17.6	2.97	23.1	21.2	3.18	27.3	24.9	3.39	31.7	28.1	3.60	36.8	33.5	3.83	42.4	42.4	4.11	48.7	48.7	4.45	55.8	55.8	4.87
	1575	19.5	17.9	3.04	23.4	21.5	3.24	27.7	25.3	3.44	32.0	28.5	3.63	37.2	33.8	3.86	42.8	42.8	4.13	49.2	49.2	4.46	56.3	56.3	4.87
70	1225	18.3	16.8	2.97	22.3	20.5	3.22	26.5	24.2	3.46	30.9	27.4	3.70	35.8	32.6	3.96	41.3	41.3	4.26	47.4	47.4	4.62	54.3	54.3	5.07
	1400	18.6	17.1	3.04	22.7	20.8	3.27	26.9	24.5	3.50	31.3	27.8	3.72	36.3	33.0	3.97	41.8	41.8	4.26	48.0	48.0	4.61	55.0	55.0	5.04
	1575	19.0	17.5	3.10	23.0	21.1	3.33	27.3	24.9	3.55	31.6	28.1	3.76	36.7	33.4	4.00	42.3	42.3	4.27	48.6	48.6	4.61	55.6	55.6	5.04
75	1225	17.6	16.2	3.03	21.8	20.1	3.30	26.1	23.8	3.56	30.4	27.0	3.82	35.4	32.2	4.10	40.7	40.7	4.41	46.8	46.8	4.79	53.5	53.5	5.24
	1400	18.1	16.6	3.10	22.2	20.4	3.35	26.5	24.1	3.60	30.8	27.4	3.84	35.8	32.6	4.11	41.3	41.3	4.41	47.4	47.4	4.77	54.2	54.2	5.21
	1575	18.4	16.9	3.16	22.6	20.7	3.41	26.9	24.5	3.65	31.2	27.7	3.88	36.2	33.0	4.13	41.8	41.8	4.42	47.9	47.9	4.77	54.8	54.8	5.21

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	042	1.00	1.01	CD5AA	048	0.98	0.95
CC5A/CD5AC	048	1.00	1.03	CE3AA	048	0.98	0.95
CC5A/CD5AW	042	1.00	1.01	CK3BA	048	0.98	0.93
	048	1.00	0.99				
CD5AA	048	1.00	0.99	CK5A/CK5BT	048	0.98	0.93
CE3AA	042	1.00	0.99	COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE			
	048	1.00	0.98	CC5A/CD5AC	048	0.96	0.99
CF5AA	048	1.00	1.00	CC5A/CD5AW	048	0.98	0.95
CK3BA	042	1.00	0.99	CD5AA	048	0.98	0.95
	048	1.00	0.97				
CK5A/CK5BA	042	1.00	0.99	CE3AA	048	0.98	0.94
	048	1.00	0.97				
CK5A/CK5BE	042	0.98	0.95	CK5A/CK5BA	048	0.98	0.93
CK5A/CK5BT	042	1.00	0.99	CK5A/CK5BT	048	0.98	0.93
	048	1.00	0.97				
CK5A/CK5BW	048	1.00	0.97	COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE			
F(A,B)4AN(F,B,C)	042	1.00	1.00	CC5A/CD5AC	048	0.96	0.99
	048	1.00	0.97	CC5A/CD5AW	048	0.98	0.95
F(A,B)4BN(F,B,C)	042	1.00	1.00	CD5AA	048	0.98	0.95
	048	1.00	0.97				
FC4BN(F,B)	042	1.00	1.00	CE3AA	048	0.98	0.94
	048	1.00	0.97				
FC4CN(F,B)	042	1.00	1.00	CK3BA	048	0.98	0.93
	048	1.00	0.97				
FG3AAA	048	1.00	0.98	COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE			
FK4CNF	003	0.99	0.96	CC5A/CD5AC	048	0.96	0.99
	005	0.98	0.88	CC5A/CD5AW	048	0.98	0.95
FK4DNF	003	0.99	0.96	CD5AA	048	0.98	0.95
	005	0.98	0.88	CE3AA	048	0.98	0.94
COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE				CK3BA	048	0.98	0.93
CC5A/CD5AC	048	0.96	1.00	CK5A/CK5BA	048	0.98	0.93
	—	—	—	CK5A/CK5BT	048	0.98	0.93
				CK5A/CK5BW	048	0.98	0.93

See notes on pg. 28.

# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†	Capacity MBtuh	Total Power	kW†
EDB	CFM	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†
<b>38YCC048-32, 34, 56, 57, 66, 67 Outdoor Section With F(A,B)4BN(F,B,C)048 Indoor Section</b>																									
65	1400	19.99	18.39	3.08	24.40	22.42	3.25	28.92	26.37	3.41	34.29	30.45	3.63	40.27	36.64	3.87	46.84	46.84	4.16	54.55	54.55	4.53	63.54	63.54	5.00
	1650	20.43	18.80	3.15	24.86	22.84	3.30	29.46	26.86	3.45	34.85	30.95	3.65	40.87	37.19	3.88	47.52	47.52	4.15	55.35	55.35	4.50	64.16	64.16	4.89
	1800	20.68	19.02	3.19	25.11	23.07	3.33	29.74	27.12	3.48	35.14	31.21	3.67	41.19	37.48	3.90	47.85	47.85	4.16	55.75	55.75	4.51	63.79	63.79	4.81
70	1400	19.56	17.99	3.19	24.03	22.08	3.38	28.75	26.22	3.56	33.90	30.10	3.77	39.81	36.22	4.03	46.31	46.31	4.32	53.92	53.92	4.70	62.67	62.67	5.18
	1650	20.00	18.40	3.26	24.50	22.51	3.43	29.02	26.46	3.58	34.44	30.58	3.79	40.42	36.79	4.03	47.00	47.00	4.30	54.73	54.73	4.66	63.75	63.75	5.13
	1800	20.26	18.64	3.30	24.76	22.75	3.46	29.30	26.72	3.61	34.73	30.84	3.81	40.75	37.08	4.05	47.35	47.35	4.32	55.12	55.12	4.67	63.82	63.82	5.05
75	1400	19.09	17.57	3.31	23.62	21.71	3.51	28.42	25.91	3.71	33.51	29.76	3.93	39.35	35.81	4.19	45.79	45.79	4.50	53.31	53.31	4.89	62.02	62.02	5.38
	1650	19.55	17.99	3.37	24.10	22.15	3.56	28.90	26.35	3.74	34.04	30.24	3.94	39.95	36.35	4.19	46.48	46.48	4.47	54.12	54.12	4.84	63.03	63.03	5.31
	1800	19.81	18.23	3.42	24.36	22.39	3.59	29.16	26.59	3.77	34.33	30.49	3.96	40.27	36.65	4.20	46.84	46.84	4.48	54.51	54.51	4.84	63.38	63.38	5.28

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.99	1.03	FK4DNB	006	0.98	0.89
CC5A/CD5AC	048	0.98	1.07	COILS + 58CV(A,X)090-16 VARIABLE-SPEED FURNACE			
CC5A/CD5AW	048	0.99	1.02	CE3AA	060	0.96	0.96
	060	1.00	0.99	COILS + 58CV(A,X)110-20 VARIABLE-SPEED FURNACE			
CD5AA	048	0.99	1.01	CC5A/CD5AA	060	0.96	1.01
CE3AA	048	1.00	1.02	CE3AA	060	0.96	0.96
	060	1.00	1.00	CK3BA	060	0.97	0.94
CF5AA	048	0.99	1.07	CK5A/CK5BA	060	0.97	0.94
CK3BA	048	0.99	1.00	CK5A/CK5BT	060	0.97	0.94
	060	0.99	0.96	CK5A/CK5BX	060	0.97	0.94
CK5A/CK5BA	048	0.99	1.00	COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE			
	060	0.99	0.96	CC5A/CD5AA	060	0.96	1.01
CK5A/CK5BT	048	0.99	1.00	CE3AA	060	0.96	0.95
	060	0.99	0.96	CK3BA	060	0.97	0.93
CK5A/CK5BW	048	0.99	1.00	CK5A/CK5BA	060	0.97	0.93
CK5A/CK5BX	060	1.00	0.97	CK5A/CK5BT	060	0.97	0.93
F(A,B)4BN(F,B,C)	048	1.00	1.00	CK5A/CK5BX	060	0.97	0.93
	060	1.00	0.99	COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE			
FB4BNB	070	1.00	0.97	CC5A/CD5AA	060	0.96	1.00
FC4CN(F,B)	048	1.00	1.00	CE3AA	060	0.96	0.95
	060	1.00	0.99	CK3BA	060	0.97	0.92
FC4CNB	070	1.00	0.98	CK5A/CK5BA	060	0.97	0.92
FG3AAA	048	1.00	1.01	CK5A/CK5BT	060	0.97	0.92
FK4DNF	005	0.98	0.93	CK5A/CK5BX	060	0.98	0.93

See notes on pg. 28.

# Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡	Capacity MBtuh		Total Power kW‡			
EDB	CFM	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†	Total	Integ†				
<b>38YCC060-32, 33, 55, 56, 65, 66 Outdoor Section With F(A,B)4AN(F,B)060 Indoor Section</b>																									
65	1800	30.0	27.6	4.24	34.6	31.8	4.37	39.4	36.0	4.51	44.9	39.9	4.67	50.7	46.2	4.85	58.1	58.1	5.12	66.6	66.6	5.47	71.9	71.9	5.69
	2000	30.4	27.9	4.31	35.0	32.2	4.43	39.9	36.3	4.55	45.4	40.3	4.70	51.2	46.6	4.88	58.7	58.7	5.13	66.4	66.4	5.42	71.1	71.1	5.61
	2200	30.8	28.3	4.38	35.4	32.5	4.49	40.2	36.7	4.60	45.8	40.7	4.74	51.7	47.0	4.91	59.2	59.2	5.16	66.2	66.2	5.40	70.4	70.4	5.57
70	1800	29.4	27.1	4.38	34.3	31.5	4.54	39.1	35.6	4.68	44.5	39.5	4.85	50.2	45.7	5.05	57.4	57.4	5.32	66.1	66.1	5.70	72.1	72.1	5.97
	2000	29.9	27.5	4.45	34.7	31.9	4.59	39.5	36.0	4.72	44.9	39.9	4.88	50.7	46.1	5.07	58.0	58.0	5.33	66.3	66.3	5.66	70.9	70.9	5.84
	2200	30.3	27.9	4.52	35.1	32.2	4.65	39.9	36.4	4.78	45.4	40.3	4.93	51.2	46.5	5.10	58.5	58.5	5.36	66.1	66.1	5.63	69.9	69.9	5.78
75	1800	28.9	26.5	4.53	33.9	31.2	4.71	38.7	35.3	4.87	44.1	39.2	5.05	49.7	45.2	5.25	56.8	56.8	5.54	65.5	65.5	5.94	72.2	72.2	6.26
	2000	29.3	27.0	4.59	34.3	31.5	4.76	39.2	35.7	4.91	44.5	39.5	5.08	50.2	45.7	5.27	57.3	57.3	5.54	66.1	66.1	5.93	72.3	72.3	6.20
	2200	29.8	27.4	4.66	34.7	31.9	4.82	39.5	36.0	4.96	44.9	39.9	5.11	50.6	46.1	5.30	57.8	57.8	5.56	66.0	66.0	5.88	70.8	70.8	6.08

## Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.97	1.04	CK3BA	060	0.97	0.94
CC5A/CD5AW	060	0.97	0.98	CK5A/CK5BA	060	0.97	0.94
CE3AA	060	0.97	0.97	CK5A/CK5BT	060	0.97	0.94
CK3BA	060	0.97	1.00	CK5A/CK5BX	060	0.97	0.94
CK5A/CK5BA	060	0.97	1.00	<b>COILS + 58CV(A,X)135-22 VARIABLE-SPEED FURNACE</b>			
CK5A/CK5BT	060	0.97	1.00	CC5A/CD5AA	060	0.96	1.02
CK5A/CK5BX	060	0.97	0.96	CC5A/CD5AW	060	0.95	0.94
F(A,B)4AN(F,B,C)	060	1.00	1.00	CE3AA	060	0.97	0.97
F(A,B)4BN(F,B,C)	060	1.00	1.00	CK3BA	060	0.97	0.94
FB4ANB	070	0.98	0.94	CK5A/CK5BA	060	0.97	0.94
FB4BNB	070	0.98	0.94	CK5A/CK5BT	060	0.97	0.94
FC4BN(F,B)	060	1.00	1.00	CK5A/CK5BX	060	0.97	0.94
FC4BNB	070	0.98	0.94	<b>COILS + 58CV(A,X)155-22 VARIABLE-SPEED FURNACE</b>			
FC4CN(F,B)	060	1.00	1.00	CC5A/CD5AA	060	0.96	1.01
FC4CNB	070	0.98	0.94	CC5A/CD5AW	060	0.95	0.94
FG3AAA	060	0.97	0.99	CE3AA	060	0.97	0.97
FK4CNB	006	0.91	0.90	CK3BA	060	0.97	0.94
FK4DNB	006	0.91	0.90	CK5A/CK5BA	060	0.97	0.94
<b>COILS + 58CV(A,X)110-22 VARIABLE-SPEED FURNACE</b>				CK5A/CK5BT	060	0.97	0.94
CC5A/CD5AA	060	0.96	1.02	CK5A/CK5BX	060	0.97	0.94
CE3AA	060	0.97	0.97	—	—	—	—

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

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

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

EDB — Entering Dry Bulb

## System Design

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
4. Minimum outdoor operating air temperature for heating mode is -30°F (-34.4°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft, indoor coil below = 150 ft. (See items 8 and 9 following.)
8. For interconnecting refrigerant tube lengths between 50 and 175 ft and/or 20 ft vertical differential, consult the Residential Split-System Long-Line Application Guideline available from equipment distributor.
9. If any refrigerant tubing is buried, provide a minimum 6-in. vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. may be buried without further consideration. For buried refrigerant tubing lengths greater than 36 in., consult your local distributor.
10. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
11. Mismatches of indoor coil capacity more than 1 size larger than outdoor unit capacity may result in inadequate indoor comfort.





# Guide specifications

## Air-Cooled, Split-System Heat Pump 38YCC 1-1/2 To 5 Tons Nominal

### GENERAL

#### System Description

Outdoor-mounted, air-cooled, split-system heat pump 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 will be rated in accordance with the latest edition of ARI Standard 240.

Unit will be certified for capacity and efficiency, and listed in the latest ARI directory.

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.

#### Delivery, Storage, and Handling

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

#### Warranty (for inclusion by specifying engineer)

U.S. and Canada only.

### PRODUCTS

#### Equipment

Factory-assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure will be 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 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 tube shutoff valve with sweat connections, suction tube shutoff valves with sweat connections, system charge of refrigerant R-22, compressor oil, accumulator, and reversing valve.

#### Operating Characteristics

The capacity of the unit will meet or exceed \_\_\_\_ Btuh at a suction temperature of \_\_\_\_ F. 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 wet bulb and \_\_\_\_ F dry bulb, and air entering the unit at \_\_\_\_ F.

The system will have an SEER of \_\_\_\_ Btuh/watt or greater at DOE conditions.

#### Electrical Requirements

Nominal unit electrical characteristics will be \_\_\_\_ v, 1 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.

