

25HCR3C
Comfort™ 13 Series R-22 Coastal Heat Pump
2 to 5 Nominal Tons (Size 24 To 60)



Turn to the Experts™

Product Data



WeatherShield™

Comfort
SERIES

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 13 SEER/ 10.8 EER / 8.0 - 8.5 HSPF (nominal)
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 74 dBA
- Compressor sound blanket

Comfort

- System supports Thermidistat™ or standard thermostat controls

Reliability

- Armor Plate™ coil corrosion protection
- Front-seating service valves
- Scroll compressor
- Accumulator
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge pressure switch
- Defrost control
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Color matched ceramic coated cabinet screws
- Baked-on, complete coverage, powder paint

Applications

- Long-line - up to 250 ft. total equivalent length, up to 200 ft. condenser above evaporator, or up to 80 ft. evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F) with accessory kit

Warranty

- 10 year limited compressor warranty
- 5 year limited parts warranty

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	5	H	C	R	3	3	6	C	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Open	Voltage	Minor Series	
25 = HP	H = RES HP	C=Comfort	R = R-22	3=13 SEER		C = Coastal	0=Not Defined	0=Not Defined	3=208/230-1		0, 1, 2...	



As an Energy Star® Partner, Carrier Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Refer to the combination ratings in Product Data for system combinations that meet Energy Star guidelines.

STANDARD FEATURES

Feature	24-30	36-30	48-30	60-30
13 SEER	X	X	X	X
Scroll Compressor	X	X	X	X
Louvered Coil Guard	X	X	X	X
Field Installed Filter Drier	X	X	X	X
Front Seating Service Valves	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X
Internal Thermal Overload	X	X	X	X
Long Line capability	X	X	X	X
Low Ambient capability with Kit	X	X	X	X
High Pressure Switch	X	X	X	X
Loss of Charge Pressure Switch	X	X	X	X
ArmorPlate™ Condenser Coil Protection	X	X	X	X
Accumulator	X	X	X	X

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PHYSICAL DATA

UNIT SIZE SERIES	24-30	36-30	48-30	60-30
Operating Weight (lb)	204	252	314	361
Shipping Weight (lb)	236	287	348	395
Compressor Type	Scroll			
REFRIGERANT	Freon® (R-22)			
Control	TXV (R-22 Hard Shutoff)			
Charge (lb)	7	8.1	13.5	16.5
COND FAN	Vertical			
Air Discharge	Vertical			
Air Qty (CFM)	2614	3334	4046	4046
Motor HP	1/10	1/8	1/4	1/4
Motor RPM	800	800	800	800
COND COIL				
Face Area (Sq ft)	21.56	25.15	25.15	30.18
Fins per In.	20	20	20	20
Rows	1	1	2	2
Circuits	6	6	8	11
VALVE CONNECT. (In. ID)				
Vapor	5/8"	3/4"	7/8"	7/8"
Liquid	3/8			
REFRIGERANT TUBES* (In. OD)				
Vapor (0-80 Ft Tube Length)	5/8	3/4	7/8	1-1/8
Liquid (0-80 Ft Tube Length)	3/8			

* For tubing sets between 80 and 200 ft. horizontal or 20 ft. vertical differential, consult the Longline Guideline.

Note: See unit Installation Instruction for proper installation.

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VAPOR LINE SIZING AND COOLING CAPACITY LOSS 1-STAGE HEAT PUMP APPLICATIONS

LONG LINE APPLICATION: An application is considered "Long line" when the total equivalent tubing length exceeds 80 ft. or when there is more than 20 ft. vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250 ft. The maximum vertical separation is 200 ft. when outdoor unit

is above indoor unit, and 60 ft. when the outdoor unit is below the indoor unit. Refer to Accessory Usage Guideline below for required accessories. See Long-Line Application Guideline for required piping and system modifications. Also, refer to the table below for the acceptable vapor tube diameters based on the total length to minimize the cooling capacity loss.

Unit Nominal Size (Btuh)	Acceptable Vapor Line Diameter O.D. (In.)	Cooling Capacity Loss (%) Total Equivalent Line Length (ft)										
		Standard Application			Long Line Application Requires Accessories							
		25	50	80	80+	100	125	150	175	200	225	250
24,000 R-22 HP	5/8	0	1	3	3	3	5	6	7	8	9	10
	3/4	0	0	0	0	1	1	1	2	2	3	3
	7/8	0	0	0	0	0	0	0	0	1	1	1
36,000 R-22 HP	3/4	0	1	2	2	3	4	5	6	7	8	9
	7/8	0	0	1	1	1	2	2	3	3	4	4
48,000 R-22 HP	3/4	1	2	4	4	5	7	8	10	11	13	14
	7/8	0	1	2	2	2	3	4	5	5	6	7
	1-1/8	0	0	0	0	0	0	1	1	1	1	1
60,000 R-22 HP	7/8	1	2	3	3	4	5	7	8	9	10	11
	1-1/8	0	0	1	1	1	1	2	2	2	3	3

Standard Length = 80 ft. or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit See Long Line Application Guidelines

ACCESSORY THERMOSTATS

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THERMOSTAT / SUBBASE PKG.	DESCRIPTION
TSTATCCPRH01 – B*	Thermidistat™ Control — Non–Programmable/Programmable Thermostat with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)
TSTATCCPHH01 – B*	Hybrid Heat™ (Dual Fuel) Thermostat — Auto Changeover, 7–Day Programmable, °F/°C, Includes Outdoor Sensor (TSTATXXSEN01 – B)
TSTATCCPHP01 – B	Thermostat — Auto Changeover, 7–Day Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool
TSTATCCNHP01 – C	Thermostat — Auto Changeover, Non–Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool
TSTATCCSHP01	Standard Programmable Thermostat—Manual Changeover, 5–2 Day Programmable, °F/°C, 1–Stage Heat/ 1–Stage Cool
TSTATCCBHP01* – B	Builder’s Thermostat — Heat Pump, Non–Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool, Manual Changeover
TSTATXXSEN01 – B**	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non – Programmable Thermostat
TSTATXXPBP01	Backplate for Programmable Thermostat and Thermidistat™ Control
TSTATXXSBP01	Backplate for Standard Programmable Thermostat
TSTATXXBBP01	Backplate for Builder’s Thermostat
TSTATXXCNV10†	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack

* Do not use in zoning heat pump applications.

** Outdoor temperature sensor is an accessory for all Carrier electronic thermostats, except the non–programmable air conditioner version and builder;s thermostats. It allows the temperature at a remote location (outdoors) to be displayed on the thermostat. The outdoor air temperature sensor must be used with the Hybrid Heat™ (dual fuel) thermostat.

† Thermostat conversion kit is a 24–vac accessory that can turn a 4–wire thermostat application into a 5–wire application. This kit can also be used to replace a broken thermostat wire, or add an extra wire when needed.

The outdoor air temperature sensor is included with the Thermidistat Control and Hybrid Heat™ (dual fuel) thermostat.

ACCESSORIES

ORDER NUMBER	DESCRIPTION	24–30	36–30	48–30	60–30
HC32GE229	BALL BEARING MOTOR				
HC34GE242	BALL BEARING MOTOR	X			
HC36GE232	BALL BEARING MOTOR		X		
HC40GE228	BALL BEARING MOTOR			X	X
KAACH1201AAA	CRANKCASE HTR		X	S	S
KAACH1401AAA	CRANKCASE HTR	X			
KAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X
KSAHS1501AAA	HARD START	X	X	X	
KSAHS1601AAA	HARD START				X
KHAIR0101AAA	ISOLATION RELAY	X	X	X	X
KSACY0101AAA	CYCLE PROTECTOR	X	X	X	X
KSALA0201R22	LOW AMBIENT	X	X	X	X
KSALA0601AAA	MOTORMASTER 230V	X	X	X	X
KHAOT0201SEC	OUTDOOR THERMOSTAT	X	X	X	X
KHAOT0301FST	OUTDOOR THERMOSTAT	X	X	X	X
KHALS0401LLS	SOLENOID VALVE	X	X	X	X
KAACS0201PTC	START ASSIST PTC	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X
KAATD0101TDR	TIME DELAY	X	X	X	X
KSATX0601HSO	TXV	X	X		
KSATX0701HSO	TXV			X	
KSATX1001HSO	TXV				X

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55 °F)	REQUIRED FOR LONGLINE APPLICATIONS* (Over 80 ft.)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles)
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Accumulator	Standard	Standard	Standard
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Motor Master® Control or Low-ambient Pressure Switch	Yes	No	No
Support Feet	Recommended	No	Recommended
Liquid Line Solenoid Valve	No	See Long-Line Application Guideline	No
Ball Bearing Fan Motor	Yes†	No	No

* For tubing line sets between 80 and 200 ft. and/or 20 ft. vertical differential (250 ft. Total Equivalent Length), refer to Residential Split-System Longline Application Guideline.

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

Accessory Description and Usage (Listed Alphabetically)

1. Ball-Bearing Fan Motor

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

Usage Guideline:

Required on all units when MotorMaster® is used.

2. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

Required for reciprocating compressors in the following applications:

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

Required for single-phase scroll compressors in the following applications:

- Long line
- Low ambient cooling

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

3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

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 the chance of liquid slugging.

Usage Guideline:

- Required in low ambient cooling applications.
- Required in long line applications.
- Suggested in all commercial applications.

5. Cycle Protector

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

6. Evaporator Freeze Thermostat

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

Usage Guideline:

Required when low ambient kit has been added.

7. 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.

Usage Guideline:

Required in all heat pumps where low ambient kit has been added.

8. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

9. Low-Ambient Pressure Switch Kit

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.

Usage Guideline:

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

10. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at 100°F ±10°F (37.8°C ± -12°C).

Usage Guideline:

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

Suggested for all commercial applications.

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Accessory Description and Usage (Listed Alphabetically) - CONTINUED

11. Outdoor Air Temperature Sensor

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

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

12. Outdoor Thermostat

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

Usage Guideline:

Electric supplemental heat applications in non-variable speed indoor units when electric heat staging is desired.

13. 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.

Usage Guideline:

Outdoor thermostat applications where electric heater is capable of 3-stage operation.

14. 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.

Usage Guideline:

Accessory required to meet ARI rating and system reliability, where indoor not equipped.

Required in all heat pump applications

15. Time-Delay Relay

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

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

Usage Guideline:

Accessory required to meet ARI rating, where indoor not equipped.

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGT H (FT)‡	MAX LENGT H (FT)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
24-30	208/230/1	253	197	54	15.13	0.7	19.6	14	14	80	76	30
36-30				88	18.68	0.9	24.2	12	12	103	98	40
48-30				137	22.22	1.2	29.0	10	10	138	131	50
60-30				148	28.85	1.2	37.3	8	8	167	159	60

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† 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 non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60° C (140° F) conditions, per the NEC (ANSI/NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75° C (140 or 167° C) insulation, copper wire (solid wire for 10 AWG or 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 wire path between unit and service panel for voltage drop not to exceed 2%.

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

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

A-WEIGHTED SOUND LEVEL (dBA)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24-30	74	57.0	62.5	68.5	69.5	67.5	63.0	55.0
36-30	74	53.5	65.5	64.5	68.5	66.0	62.0	54.5
48-30	75	54.5	61.0	66.0	71.0	65.5	62.0	56.5
60-30	75	56.5	66.5	67.5	69.5	67.5	63.5	56.5

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - SERIES	REQUIRED SUBCOOLING (F)	Heating Piston Size
24-30	10	52
36-30	10	57
48-30	9	67
60-30	10	78

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DIMENSIONS

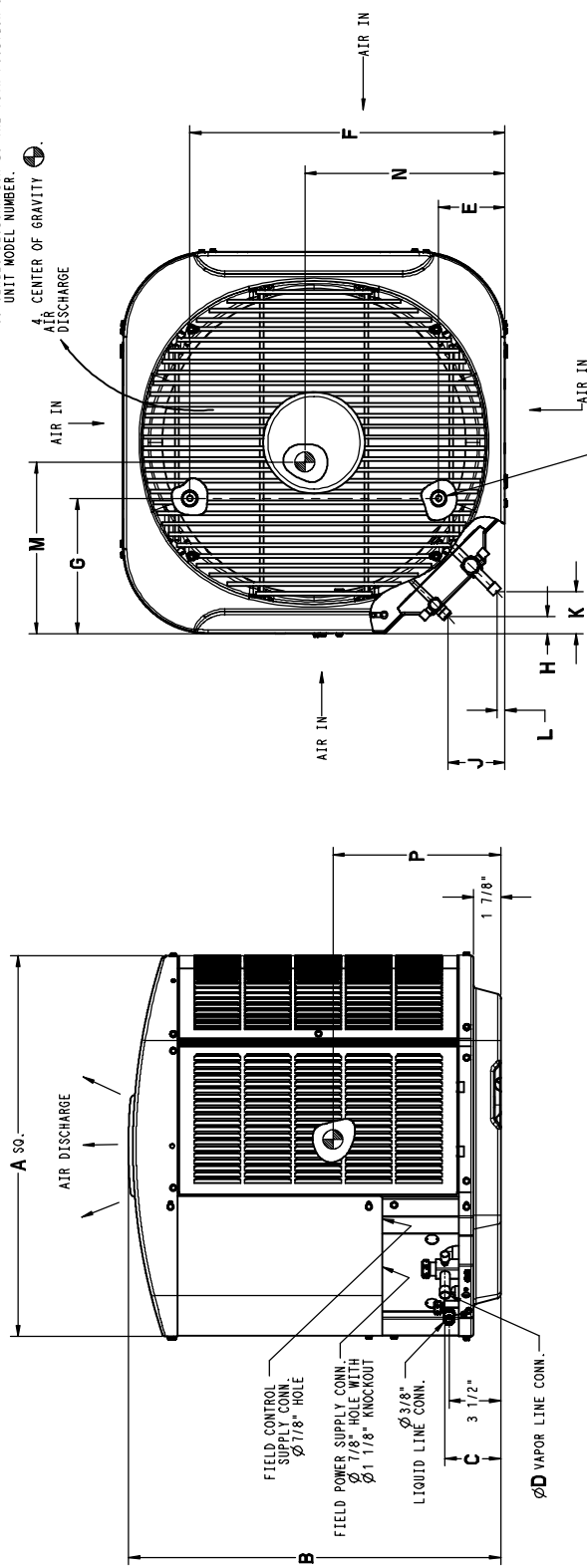
UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	OPERATING WEIGHT	SHIPPING WEIGHT	SHIPPING DIMENSIONS (L x W x H)	
25HCR324	0	X 0 0 0	31 3/16"	39 1/8"	3 3/4"	5/8"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1/2"	16"	15 1/4"	17 3/4"	204#	236#	32 5/16" X 32 5/16" X 42 7/8"	
25HCR336	0	X 0 0 0	35"	39 1/8"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1/2"	17 1/4"	17 1/4"	18 1/2"	252#	287#	36 1/8" X 36 1/8" X 42 7/8"	
25HCR348	0	X 0 0 0	35"	39 1/8"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	18"	18"	17 1/2"	314#	348#	36 1/8" X 36 1/8" X 42 7/8"	
25HCR360	0	X 0 0 0	35"	45 15/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	16"	17 1/4"	17 1/2"	361#	395#	36 1/8" X 36 1/8" X 49 5/8"	

460-3-60
208/230-3-60
230-160
208-230-160

X = YES
O = NO

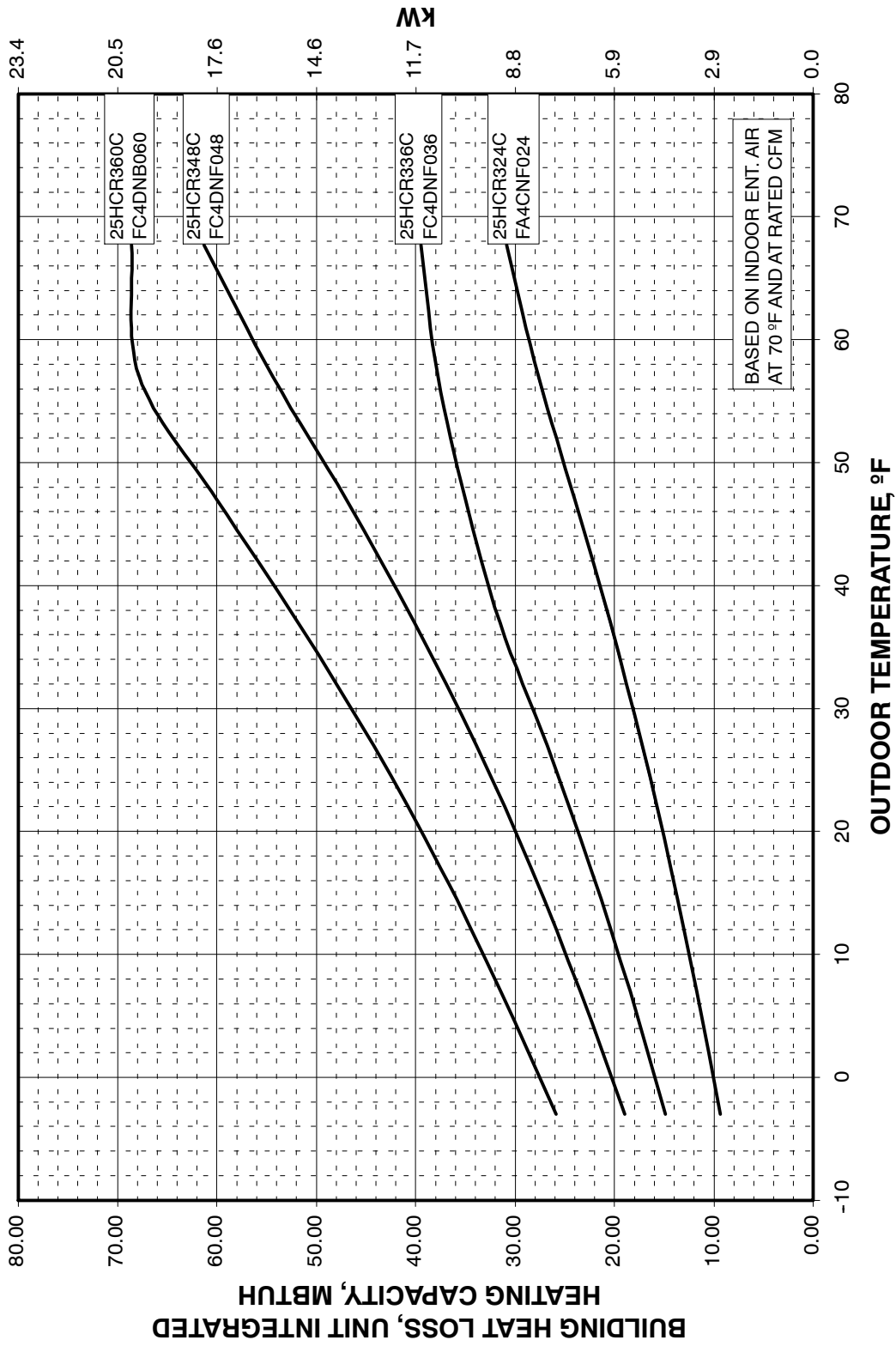
NOTES:

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



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
24	26" X 26"
36, 48, 60	31 1/2" X 31 1/2"
	35" X 35"

25HCR3C BALANCE POINT WORKSHEET



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COMBINATION RATINGS

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Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings#								Furnace Model	
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp			HSPF
							Capacity	COP	Capacity	COP		
*FA4CN(F,C)024	23,200	TDR&TXV	13.00		10.80	24,000	3.54	14,800	2.38	8.3		
FA4CN(F,C)030	23,600	TDR&TXV	13.20		11.00	24,000	3.60	14,800	2.42	8.5		
FC4DNF024	23,800	TDR&TXV	14.00		11.50	24,000	3.72	14,400	2.52	8.7		
FC4DNF030	24,000	TDR&TXV	14.50		11.70	24,000	3.82	14,400	2.56	8.9		
FF1ENE024	23,400	TDR&TXV	13.00		10.80	24,000	3.54	14,900	2.38	8.3		
FF1ENE030	23,400	TDR&TXV	13.00		10.80	24,000	3.56	14,900	2.38	8.4		
FK4DNF001	23,600	TDR&TXV	14.50		11.70	23,800	3.70	14,200	2.52	8.6		
FK4DNF002	24,000	TDR&TXV	15.00		12.00	23,800	3.82	14,200	2.56	8.8		
FK4DNF003	23,800	TDR&TXV	15.00		12.00	23,400	3.80	14,100	2.58	8.8		
CAR**2414A**	23,400	TDR&TXV	14.50		11.70	23,800	3.66	14,200	2.50	8.6	58CV(A,X)070-12	
CAR**2414A**	23,400	TXV			13.00	10.80	24,000	3.60	14,900	2.40	8.5	
CAR**2417A**	23,400	TDR&TXV	14.50		11.70	23,600	3.70	14,100	2.54	8.6	58CV(A,X)090-16	
CAR**2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.68	14,100	2.52	8.6	58MVB060-14	
CAR**2417A**	23,400	TXV			13.00	10.80	24,000	3.60	14,900	2.40	8.5	
CAR**3014A**	23,400	TDR&TXV	14.50		11.70	23,600	3.70	14,200	2.52	8.6	58CV(A,X)070-12	
CAR**3014A**	23,600	TXV			13.00	10.80	24,000	3.58	15,000	2.42	8.5	
CAR**3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.74	14,100	2.54	8.7	58CV(A,X)090-16	
CAR**3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.72	14,100	2.54	8.7	58MVB060-14	
CAR**3017A**	23,600	TXV			13.00	10.80	24,000	3.58	15,000	2.42	8.5	
CNRH*2418A**	23,400	TXV			13.00	10.80	24,000	3.68	15,000	2.42	8.6	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.72	14,200	2.52	8.7	58CV(A,X)070-12	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.54	8.7	58CV(A,X)090-16	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58CV(A,X)110-20	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.52	8.7	58CV(A,X)135-22	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.52	8.7	58CV(A,X)155-22	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB040-14	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB060-14	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB080-14	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB080-20	
CNRH*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.52	8.7	58MVB100-20	
CNRH*2417A**	23,400	TDR&TXV	14.00		11.50	23,800	3.72	14,200	2.50	8.6	58MVB120-20	
CNRH*2417A**	23,400	TXV			13.00	10.80	24,000	3.68	15,000	2.42	8.6	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.72	14,100	2.54	8.7	58CV(A,X)070-12	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.76	14,100	2.56	8.7	58CV(A,X)090-16	
CNRH*3017A**	23,600	TDR&TXV	14.20		11.70	23,600	3.74	14,200	2.54	8.7	58CV(A,X)110-20	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.76	14,100	2.54	8.7	58CV(A,X)135-22	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.76	14,100	2.56	8.8	58CV(A,X)155-22	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.74	14,200	2.54	8.7	58MVB040-14	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.72	14,100	2.54	8.7	58MVB060-14	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.74	14,200	2.54	8.7	58MVB080-14	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.74	14,200	2.54	8.7	58MVB080-20	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.76	14,200	2.54	8.7	58MVB100-20	
CNRH*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.72	14,100	2.54	8.7	58MVB120-20	
CNRH*3017A**	23,600	TXV			13.00	10.80	24,000	3.58	15,000	2.42	8.5	
CNRV*2414A**	23,400	TDR&TXV	14.50		11.70	23,800	3.72	14,200	2.52	8.7	58CV(A,X)070-12	
CNRV*2414A**	23,400	TXV			13.00	10.80	24,000	3.68	15,000	2.42	8.6	
CNRV*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.54	8.7	58CV(A,X)090-16	
CNRV*2417A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB060-14	
CNRV*2417A**	23,400	TXV			13.00	10.80	24,000	3.68	15,000	2.42	8.6	
CNRV*3014A**	23,600	TDR&TXV	14.50		11.70	23,600	3.70	14,200	2.52	8.6	58CV(A,X)070-12	
CNRV*3014A**	23,600	TXV			13.00	10.80	24,000	3.58	15,000	2.42	8.5	
CNRV*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.76	14,100	2.56	8.7	58CV(A,X)090-16	
CNRV*3017A**	23,600	TDR&TXV	14.50		11.70	23,600	3.72	14,100	2.54	8.7	58MVB060-14	
CNRV*3017A**	23,600	TXV			13.00	10.80	24,000	3.58	15,000	2.42	8.5	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.72	14,200	2.52	8.7	58CV(A,X)070-12	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.54	8.7	58CV(A,X)090-16	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,300	2.52	8.7	58CV(A,X)110-20	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,300	2.52	8.7	58CV(A,X)135-22	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,200	2.54	8.7	58CV(A,X)155-22	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	24,000	3.74	14,300	2.52	8.7	58MVB040-14	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB060-14	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,300	2.52	8.7	58MVB080-14	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.74	14,200	2.52	8.7	58MVB080-20	
CSRH*2412A**	23,400	TDR&TXV	14.50		11.70	23,800	3.76	14,300	2.54	8.7	58MVB100-20	
CSRH*2412A**	23,200	TDR&TXV	14.50		11.70	23,800	3.70	14,200	2.52	8.6	58MVB120-20	

See notes on pg. 13

COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings#									Furnace Model	
			Cooling				Heating				HSPF		
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp				
				Capacity	COP	Capacity	COP						
24–30	CSRH*2412A**	23,400	TXV			13.20	11.00	24,000	3.70	15,000	2.44	8.6	
	CSRH*3012A**	23,400	TDR&TXV	14.50			11.70	23,600	3.70	14,200	2.52	8.7	58CV(A,X)070–12
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.74	14,100	2.54	8.7	58CV(A,X)090–16
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.74	14,200	2.54	8.7	58CV(A,X)110–20
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.74	14,200	2.54	8.7	58CV(A,X)135–22
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.74	14,200	2.54	8.7	58CV(A,X)155–22
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.72	14,200	2.52	8.7	58MVB040–14
	CSRH*3012A**	23,400	TDR&TXV	14.50			11.70	23,600	3.72	14,200	2.54	8.7	58MVB060–14
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.72	14,200	2.54	8.7	58MVB080–14
	CSRH*3012A**	23,600	TDR&TXV	14.50			11.70	23,600	3.72	14,200	2.54	8.7	58MVB080–20
36–30	CSRH*3012A**	23,400	TDR&TXV	14.50			11.70	23,600	3.70	14,200	2.52	8.6	58MVB100–20
	CSRH*3012A**	23,400	TDR&TXV	14.50			11.70	23,600	3.70	14,200	2.52	8.6	58MVB120–20
	CSRH*3012A**	23,600	TXV			13.20	11.00	24,000	3.58	15,000	2.44	8.5	
	*FC4DN(F,B)036	34,600	TDR&TXV	13.00			10.80	35,000	3.36	21,200	2.46	8.0	
	FC4DN(F,B)042	35,400	TDR&TXV	13.20			11.00	32,200	3.32	21,400	2.52	8.4	
	FK4DNF002	34,000	TDR&TXV	13.00			10.80	36,400	3.46	21,000	2.44	8.2	
	FK4DNF003	34,200	TDR&TXV	13.50			11.20	35,000	3.38	20,800	2.48	8.3	
	CAR**3614A**	32,800	TDR&TXV	13.00			10.80	34,400	3.32	21,000	2.42	8.1	58CV(A,X)070–12
	CAR**3617A**	34,000	TDR&TXV	13.20			11.00	35,400	3.36	20,800	2.46	8.2	58CV(A,X)090–16
	CAR**3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58MVB060–14
	CAR**3621A**	34,000	TDR&TXV	13.20			11.00	35,200	3.38	20,800	2.46	8.3	58CV(A,X)110–20
	CAR**3621A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB080–14
	CAR**3621A**	34,000	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58MVB080–20
	CAR**3621A**	34,000	TDR&TXV	13.20			11.00	35,400	3.36	20,800	2.44	8.2	58MVB100–20
	CAR**4221A**	34,400	TDR&TXV	13.20			11.00	34,800	3.40	21,000	2.48	8.3	58CV(A,X)110–20
	CAR**4221A**	34,000	TDR&TXV	13.00			10.80	35,000	3.36	21,000	2.44	8.2	58MVB080–14
	CAR**4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.38	21,000	2.46	8.3	58MVB080–20
	CAR**4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.38	21,000	2.46	8.3	58MVB100–20
	CAR**4224A**	34,400	TDR&TXV	13.50			11.20	34,800	3.42	20,800	2.50	8.4	58CV(A,X)135–22
	CAR**4224A**	34,400	TDR&TXV	13.50			11.20	34,600	3.44	20,800	2.50	8.4	58CV(A,X)155–22
	CAR**4224A**	34,200	TDR&TXV	13.00			10.80	35,000	3.36	21,000	2.44	8.3	58MVB040–14
	CAR**4224A**	34,200	TDR&TXV	13.20			11.00	34,800	3.40	20,800	2.48	8.3	58MVB120–20
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,600	3.32	21,000	2.42	8.1	58CV(A,X)070–12
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58CV(A,X)090–16
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58CV(A,X)110–20
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.36	20,800	2.44	8.2	58CV(A,X)135–22
	CNRH*3617A**	34,000	TDR&TXV	13.20			11.00	35,400	3.38	20,800	2.46	8.2	58CV(A,X)155–22
	CNRH*3617A**	33,600	TDR&TXV	13.00			10.80	35,400	3.30	21,000	2.40	8.1	58MVB040–14
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB060–14
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.32	21,000	2.42	8.2	58MVB080–20
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB100–20
	CNRH*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB120–20
	CNRH*4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.40	21,000	2.46	8.3	58CV(A,X)070–12
	CNRH*4221A**	34,400	TDR&TXV	13.50			11.20	34,800	3.44	20,800	2.50	8.4	58CV(A,X)090–16
	CNRH*4221A**	34,600	TDR&TXV	13.50			11.20	34,800	3.44	20,800	2.50	8.4	58CV(A,X)110–20
	CNRH*4221A**	34,600	TDR&TXV	13.50			11.20	34,600	3.46	20,800	2.52	8.5	58CV(A,X)135–22
CNRH*4221A**	34,600	TDR&TXV	13.50			11.20	34,600	3.48	20,600	2.52	8.5	58CV(A,X)155–22	
CNRH*4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.40	21,000	2.48	8.3	58MVB040–14	
CNRH*4221A**	34,400	TDR&TXV	13.50			11.20	34,800	3.42	20,800	2.48	8.4	58MVB060–14	
CNRH*4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.40	21,000	2.46	8.3	58MVB080–14	
CNRH*4221A**	34,400	TDR&TXV	13.20			11.00	34,800	3.40	21,000	2.48	8.3	58MVB080–20	
CNRH*4221A**	34,400	TDR&TXV	13.50			11.20	34,800	3.42	20,800	2.48	8.4	58MVB100–20	
CNRH*4221A**	34,400	TDR&TXV	13.50			11.20	34,800	3.44	20,800	2.50	8.4	58MVB120–20	
CNRV*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58CV(A,X)090–16	
CNRV*3617A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB060–14	
CNRV*3621A**	34,000	TDR&TXV	13.00			10.80	35,400	3.36	21,000	2.44	8.2	58CV(A,X)110–20	
CNRV*3621A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB080–20	
CNRV*3621A**	33,800	TDR&TXV	13.00			10.80	35,400	3.34	21,000	2.42	8.2	58MVB100–20	
CNRV*4221A**	34,600	TDR&TXV	13.50			11.20	34,800	3.44	20,800	2.50	8.4	58CV(A,X)110–20	
CNRV*4221A**	34,200	TDR&TXV	13.20			11.00	35,000	3.40	21,000	2.46	8.3	58MVB080–14	
CNRV*4221A**	34,400	TDR&TXV	13.20			11.00	34,800	3.40	21,000	2.48	8.3	58MVB080–20	
CNRV*4221A**	34,400	TDR&TXV	13.50			11.20	34,800	3.42	20,800	2.48	8.4	58MVB100–20	
CSRH*3612A**	33,600	TDR&TXV	13.20			11.00	34,400	3.38	21,200	2.46	8.3	58CV(A,X)070–12	
CSRH*3612A**	34,000	TDR&TXV	13.50			11.20	34,400	3.42	21,000	2.50	8.4	58CV(A,X)090–16	
CSRH*3612A**	34,000	TDR&TXV	13.50			11.20	34,200	3.42	21,000	2.50	8.4	58CV(A,X)110–20	
CSRH*3612A**	34,000	TDR&TXV	13.50			11.20	34,200	3.44	21,000	2.50	8.4	58CV(A,X)135–22	

See notes on pg. 13

25HCR3C

COMBINATION RATINGS CONTINUED

25HCR3C

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings#								Furnace Model	
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp			HSPF
							Capacity	COP	Capacity	COP		
36-30	CSRH*3612A**	34,000	TDR&TXV	13.50		11.20	34,200	3.46	21,000	2.52	8.5	58CV(A,X)155-22
	CSRH*3612A**	33,600	TDR&TXV	13.20		11.00	34,600	3.38	21,200	2.46	8.3	58MVB040-14
	CSRH*3612A**	33,800	TDR&TXV	13.20		11.00	34,400	3.40	21,000	2.48	8.4	58MVB060-14
	CSRH*3612A**	33,600	TDR&TXV	13.00		10.80	34,600	3.36	21,200	2.46	8.3	58MVB080-14
	CSRH*3612A**	33,800	TDR&TXV	13.20		11.00	34,400	3.40	21,000	2.48	8.4	58MVB080-20
	CSRH*3612A**	33,800	TDR&TXV	13.20		11.00	34,400	3.40	21,000	2.48	8.4	58MVB100-20
	CSRH*3612A**	33,800	TDR&TXV	13.20		11.00	34,400	3.42	21,000	2.48	8.4	58MVB120-20
	CSRH*4212A**	34,200	TDR&TXV	13.20		11.00	33,800	3.38	21,200	2.48	8.4	58CV(A,X)070-12
	CSRH*4212A**	34,200	TDR&TXV	13.50		11.20	33,800	3.42	21,000	2.52	8.5	58CV(A,X)090-16
	CSRH*4212A**	34,400	TDR&TXV	13.50		11.20	33,600	3.42	21,000	2.52	8.5	58CV(A,X)110-20
	CSRH*4212A**	34,400	TDR&TXV	13.50		11.20	33,600	3.44	21,000	2.52	8.5	58CV(A,X)135-22
	CSRH*4212A**	34,400	TDR&TXV	13.50		11.50	33,600	3.46	21,000	2.54	8.5	58CV(A,X)155-22
	CSRH*4212A**	34,000	TDR&TXV	13.20		11.00	34,000	3.38	21,200	2.48	8.4	58MVB040-14
	CSRH*4212A**	34,200	TDR&TXV	13.50		11.20	33,800	3.42	21,000	2.50	8.4	58MVB060-14
	CSRH*4212A**	34,000	TDR&TXV	13.20		11.00	34,000	3.38	21,200	2.46	8.3	58MVB080-14
	CSRH*4212A**	34,200	TDR&TXV	13.50		11.20	33,800	3.40	21,000	2.50	8.4	58MVB080-20
	CSRH*4212A**	34,200	TDR&TXV	13.50		11.20	33,800	3.42	21,000	2.50	8.4	58MVB100-20
	48-30	*FC4DN(F,B)048	47,000	TDR&TXV	13.00		10.80	47,000	3.46	30,200	2.60	8.5
FC4DN(F,B)060		48,000	TDR&TXV	14.00		11.50	46,000	3.56	30,200	2.64	8.8	
FK4DNB006		47,500	TDR&TXV	14.00		11.50	46,000	3.50	29,600	2.64	8.6	
FK4DNF005		46,500	TDR&TXV	13.50		11.20	46,000	3.38	29,600	2.58	8.4	
CAR**4817A**		44,000	TDR&TXV	13.20		11.00	45,000	3.34	30,000	2.52	8.3	58CV(A,X)090-16
CAR**4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.30	29,800	2.52	8.2	58CV(A,X)110-20
CAR**4821A**		45,000	TDR&TXV	13.00		10.80	46,000	3.28	30,000	2.50	8.1	58MVB080-20
CAR**4821A**		45,000	TDR&TXV	13.00		10.80	46,000	3.28	30,000	2.50	8.2	58MVB100-20
CAR**4824A**		45,500	TDR&TXV	13.50		11.20	46,000	3.34	29,600	2.54	8.3	58CV(A,X)135-22
CAR**4824A**		45,500	TDR&TXV	13.50		11.20	45,500	3.36	29,600	2.56	8.3	58CV(A,X)155-22
CAR**4824A**		45,000	TDR&TXV	13.20		11.00	46,000	3.30	29,800	2.50	8.2	58MVB120-20
CAR**6021A**		46,500	TDR&TXV	13.50		11.20	46,000	3.34	29,800	2.56	8.3	58CV(A,X)110-20
CAR**6021A**		46,000	TDR&TXV	13.20		11.00	46,000	3.30	30,000	2.52	8.2	58MVB080-20
CAR**6021A**		46,500	TDR&TXV	13.50		11.20	46,000	3.32	30,000	2.54	8.2	58MVB100-20
CAR**6024A**		46,500	TDR&TXV	13.50		11.20	46,000	3.36	29,800	2.56	8.3	58CV(A,X)135-22
CAR**6024A**		46,500	TDR&TXV	13.50		11.50	46,000	3.38	29,600	2.58	8.4	58CV(A,X)155-22
CAR**6024A**		46,000	TDR&TXV	13.50		11.20	46,000	3.30	30,000	2.54	8.2	58MVB120-20
CNRH*4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.30	29,800	2.52	8.2	58CV(A,X)090-16
CNRH*4821A**		45,500	TDR&TXV	13.20		11.00	46,000	3.32	29,800	2.52	8.2	58CV(A,X)110-20
CNRH*4821A**		45,500	TDR&TXV	13.50		11.20	45,500	3.34	29,600	2.54	8.3	58CV(A,X)135-22
CNRH*4821A**		45,500	TDR&TXV	13.50		11.20	45,500	3.36	29,600	2.56	8.3	58CV(A,X)155-22
CNRH*4821A**		45,000	TDR&TXV	13.00		10.80	46,000	3.28	30,000	2.50	8.1	58MVB080-20
CNRH*4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.28	30,000	2.50	8.2	58MVB100-20
CNRH*4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.28	29,800	2.50	8.2	58MVB120-20
CNRH*6024A**		46,000	TDR&TXV	13.50		11.20	46,000	3.30	29,800	2.54	8.2	58CV(A,X)090-16
CNRH*6024A**		46,500	TDR&TXV	13.50		11.20	46,000	3.32	29,800	2.56	8.2	58CV(A,X)110-20
CNRH*6024A**		46,500	TDR&TXV	13.50		11.20	46,000	3.34	29,600	2.58	8.3	58CV(A,X)135-22
CNRH*6024A**		46,500	TDR&TXV	13.50		11.20	45,500	3.36	29,600	2.58	8.3	58CV(A,X)155-22
CNRH*6024A**		46,000	TDR&TXV	13.20		11.00	46,000	3.28	30,000	2.52	8.2	58MVB080-20
CNRH*6024A**		46,000	TDR&TXV	13.50		11.20	46,000	3.30	30,000	2.54	8.2	58MVB100-20
CNRH*6024A**		46,000	TDR&TXV	13.50		11.20	46,000	3.30	29,800	2.54	8.2	58MVB120-20
CNRV*4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.32	29,800	2.52	8.2	58CV(A,X)110-20
CNRV*4821A**		45,000	TDR&TXV	13.00		10.80	46,000	3.28	30,000	2.50	8.1	58MVB080-20
CNRV*4821A**		45,000	TDR&TXV	13.20		11.00	46,000	3.28	30,000	2.50	8.2	58MVB100-20
CNRV*4824A**		45,500	TDR&TXV	13.50		11.20	45,000	3.34	29,600	2.54	8.3	58CV(A,X)135-22
CNRV*4824A**		45,500	TDR&TXV	13.50		11.20	45,500	3.36	29,600	2.56	8.3	58CV(A,X)155-22
CNRV*4824A**	45,000	TDR&TXV	13.20		11.00	46,000	3.28	29,800	2.50	8.2	58MVB120-20	
CNRV*6024A**	46,500	TDR&TXV	13.50		11.20	46,000	3.34	29,600	2.58	8.3	58CV(A,X)135-22	
CNRV*6024A**	46,500	TDR&TXV	13.50		11.20	45,500	3.36	29,600	2.58	8.3	58CV(A,X)155-22	
CNRV*6024A**	46,000	TDR&TXV	13.50		11.20	46,000	3.30	29,800	2.54	8.2	58MVB120-20	
CSRH*4812A**	45,000	TDR&TXV	13.20		11.00	46,000	3.32	30,000	2.52	8.2	58CV(A,X)090-16	
CSRH*4812A**	45,000	TDR&TXV	13.20		11.00	46,000	3.34	30,000	2.52	8.3	58CV(A,X)110-20	
CSRH*4812A**	45,500	TDR&TXV	13.50		11.20	46,000	3.36	29,800	2.54	8.3	58CV(A,X)135-22	
CSRH*4812A**	45,500	TDR&TXV	13.50		11.20	45,500	3.38	29,800	2.56	8.4	58CV(A,X)155-22	
CSRH*4812A**	45,000	TDR&TXV	13.00		10.80	46,000	3.30	30,200	2.50	8.2	58MVB080-20	
CSRH*4812A**	45,000	TDR&TXV	13.20		11.00	46,000	3.32	30,000	2.52	8.2	58MVB100-20	
CSRH*4812A**	45,000	TDR&TXV	13.20		11.00	46,000	3.32	30,000	2.52	8.2	58MVB120-20	

See notes on pg. 13

COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings#									
			Cooling				Heating				Furnace Model	
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp			HSPF
							Capacity	COP	Capacity	COP		
48–30	CSRH*6012A**	46,000	TDR&TXV	13.50		11.20	46,000	3.36	30,000	2.56	8.3	58CV(A,X)090–16
	CSRH*6012A**	46,000	TDR&TXV	13.50		11.20	46,000	3.38	29,800	2.56	8.4	58CV(A,X)110–20
	CSRH*6012A**	46,500	TDR&TXV	13.50		11.20	46,000	3.40	29,800	2.58	8.4	58CV(A,X)135–22
	CSRH*6012A**	46,500	TDR&TXV	14.00		11.50	46,000	3.44	29,600	2.60	8.5	58CV(A,X)155–22
	CSRH*6012A**	46,000	TDR&TXV	13.50		11.20	46,000	3.34	30,000	2.54	8.3	58MVB080–20
	CSRH*6012A**	46,000	TDR&TXV	13.50		11.20	46,000	3.36	30,000	2.54	8.3	58MVB100–20
	CSRH*6012A**	46,000	TDR&TXV	13.50		11.20	46,000	3.36	30,000	2.54	8.3	58MVB120–20
	CSRH*6012A**	46,000	TXV		13.00		10.80	46,000	3.40	31,000	2.52	8.4
60–30	*FC4DN(F,B)060	59,000	TDR&TXV	13.00		10.80	60,000	3.50	37,200	2.46	8.1	
	FK4DNB006	58,500	TDR&TXV	13.20		11.00	59,500	3.52	36,400	2.48	8.1	
	CAR**6024A**	58,000	TDR&TXV	13.00		10.80	59,500	3.40	36,400	2.44	7.9	58CV(A,X)155–22
	CNRH*6024A**	57,500	TDR&TXV	13.00		10.80	59,000	3.36	36,200	2.44	7.8	58CV(A,X)155–22
	CNRV*6024A**	57,500	TDR&TXV	13.00		10.80	59,000	3.36	36,200	2.44	7.8	58CV(A,X)155–22
	CSRH*6012A**	57,500	TDR&TXV	13.00		10.80	59,500	3.40	36,400	2.44	7.9	58CV(A,X)135–22
	CSRH*6012A**	58,000	TDR&TXV	13.20		11.00	59,500	3.42	36,400	2.46	7.9	58CV(A,X)155–22

* Tested Combinations

Ratings are net values reflecting the effects of circulating fan heat. Ratings are based on:

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

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

Low-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (±9°C) db 15°F (±10°C) wb air entering outdoor unit.

SEER — Seasonal Energy Efficiency Ratio

COP — Coefficient of Performance

TDR — Time–Delay Relay

HSPF — Heating Seasonal Performance Factor

EER — Energy Efficiency Ratio

25HCR3C

DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
CFM	EWB	75			85			95			105			115			125			
		Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
700	72	27.28	14.15	1.66	13.76	13.36	2.07	24.14	12.95	2.31	23.00	12.53	2.57	21.81	12.09	2.85				
	67	24.75	17.62	1.66	17.22	16.82	2.06	21.83	16.39	2.30	20.77	15.95	2.55	19.67	15.49	2.83				
	63††	22.95	17.00	1.65	16.60	16.18	2.05	20.19	15.75	2.29	19.19	15.30	2.54	18.14	14.83	2.82				
	62	22.57	21.07	1.65	21.72	20.64	1.84	20.85	20.18	2.05	19.95	19.68	2.29	19.05	18.20	2.82				
	57	22.04	22.04	1.65	21.34	20.61	1.84	20.61	19.85	2.05	19.85	19.85	2.29	19.05	18.20	2.82				
800	72	27.75	14.81	1.70	14.42	14.02	2.11	24.50	13.61	2.35	23.32	13.18	2.61	22.08	12.73	2.89				
	67	25.18	18.74	1.70	18.33	17.92	2.10	22.15	17.48	2.34	21.06	17.03	2.59	19.92	16.56	2.87				
	63††	23.34	18.04	1.69	17.63	17.20	2.09	20.49	16.76	2.33	19.46	16.30	2.58	18.38	15.82	2.86				
	62	23.06	22.49	1.69	22.21	21.36	1.88	21.36	20.56	2.09	20.56	20.56	2.33	19.71	18.82	2.86				
	57	22.87	22.87	1.69	22.13	21.36	1.88	21.36	20.56	2.09	20.56	20.56	2.33	19.71	18.82	2.86				
900	72	28.10	15.45	1.74	15.05	14.64	2.15	24.75	14.23	2.39	23.54	13.79	2.64	22.28	13.34	2.93				
	67	25.49	19.80	1.73	19.39	18.96	2.14	22.39	18.51	2.37	21.27	18.05	2.63	20.11	17.57	2.91				
	63††	23.64	19.02	1.73	18.61	18.17	2.13	20.72	17.72	2.37	19.66	17.25	2.62	18.57	16.75	2.90				
	62	23.56	23.56	1.73	22.79	22.79	1.92	21.98	21.14	2.13	21.14	21.14	2.37	20.26	19.33	2.91				
	57	23.56	23.56	1.73	22.79	22.79	1.92	21.99	21.14	2.13	21.14	21.14	2.37	20.26	19.33	2.91				

25HCR324C30 Outdoor Section With FA4CN(F)C024 Indoor Section

Cooling Indoor Model	Capacity	Power	Furnace Model	Cooling Indoor Model			Capacity	Power	Furnace Model	Cooling Indoor Model			Capacity	Power	Furnace Model
				CNRRH*2417A**	CNRRH*3017A**	CNRRH*3017A**				CNRRH*2417A**	CNRRH*3017A**	CNRRH*3017A**			
FA4CN(F)C024	1.00	1.00	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58MV(B)080-14
FA4CN(F)C030	1.02	1.00	58CV(A)X090-16	CNRRH*3017A**	1.01	0.94	58CV(A)X090-16	0.94	58CV(A)X090-16	CNRRH*3017A**	1.01	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
FC4DNF024	1.03	0.96	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
FC4DNF030	1.03	0.95	58CV(A)X090-16	CNRRH*3017A**	1.02	0.94	58CV(A)X090-16	0.94	58CV(A)X090-16	CNRRH*3017A**	1.02	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
FFTENE024	1.01	1.01	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58CV(A)X090-16	CNRRH*2417A**	1.01	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
FFTENE030	1.01	1.01	58CV(A)X090-16	CNRRH*3017A**	1.02	0.94	58CV(A)X090-16	0.94	58CV(A)X090-16	CNRRH*3017A**	1.02	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
FK4DNF001	1.02	0.94	58CV(A)X110-20	CNRRH*2417A**	1.01	0.93	58CV(A)X110-20	0.93	58CV(A)X110-20	CNRRH*2417A**	1.01	0.93	58CV(A)X110-20	0.93	58MV(B)100-20
FK4DNF002	1.03	0.93	58CV(A)X110-20	CNRRH*3017A**	1.01	0.94	58CV(A)X110-20	0.94	58CV(A)X110-20	CNRRH*3017A**	1.01	0.93	58CV(A)X110-20	0.93	58MV(B)100-20
FK4DNF003	1.03	0.92	58CV(A)X110-20	CNRRH*2417A**	1.02	0.93	58CV(A)X110-20	0.93	58CV(A)X110-20	CNRRH*2417A**	1.02	0.93	58CV(A)X110-20	0.93	58MV(B)100-20
CAR**2414A**	1.01	1.01	58CV(A)X135-22	CNRRH*2417A**	1.01	0.94	58CV(A)X135-22	0.94	58CV(A)X135-22	CNRRH*2417A**	1.01	0.93	58CV(A)X135-22	0.93	58MV(B)120-20
CAR**2417A**	1.01	1.01	58CV(A)X135-22	CNRRH*3017A**	1.01	0.93	58CV(A)X135-22	0.93	58CV(A)X135-22	CNRRH*3017A**	1.01	0.94	58CV(A)X135-22	0.94	58MV(B)120-20
CAR**3014A**	1.02	1.02	58CV(A)X135-22	CNRRH*2417A**	1.02	0.94	58CV(A)X135-22	0.94	58CV(A)X135-22	CNRRH*2417A**	1.02	0.93	58CV(A)X135-22	0.93	58MV(B)120-20
CAR**3017A**	1.02	1.02	58CV(A)X135-22	CNRRH*3017A**	1.01	0.93	58CV(A)X135-22	0.93	58CV(A)X135-22	CNRRH*3017A**	1.01	0.94	58CV(A)X135-22	0.94	58MV(B)120-20
CNRH*2418A**	1.01	1.01	58CV(A)X155-22	CNRRH*2417A**	1.02	0.93	58CV(A)X155-22	0.93	58CV(A)X155-22	CNRRH*2417A**	1.02	0.93	58CV(A)X155-22	0.93	58MV(B)120-20
CNRH*2417A**	1.01	1.01	58CV(A)X155-22	CNRRH*3017A**	1.01	0.94	58CV(A)X155-22	0.94	58CV(A)X155-22	CNRRH*3017A**	1.01	0.93	58CV(A)X155-22	0.93	58MV(B)120-20
CNRV*2414A**	1.01	1.01	58CV(A)X155-22	CNRRH*2417A**	1.02	0.94	58CV(A)X155-22	0.94	58CV(A)X155-22	CNRRH*2417A**	1.02	0.93	58CV(A)X155-22	0.93	58MV(B)120-20
CNRV*2417A**	1.01	1.01	58CV(A)X155-22	CNRRH*3017A**	1.01	0.93	58CV(A)X155-22	0.93	58CV(A)X155-22	CNRRH*3017A**	1.01	0.94	58CV(A)X155-22	0.94	58MV(B)120-20
CNRV*3014A**	1.02	1.02	58MV(B)040-14	CNRRH*2417A**	1.02	0.94	58MV(B)040-14	0.94	58MV(B)040-14	CNRRH*2417A**	1.02	0.93	58MV(B)040-14	0.93	58MV(B)120-20
CNRV*3017A**	1.02	1.02	58MV(B)040-14	CNRRH*3017A**	1.01	0.93	58MV(B)040-14	0.93	58MV(B)040-14	CNRRH*3017A**	1.01	0.94	58MV(B)040-14	0.94	58MV(B)120-20
CSRH*2412A**	1.01	0.99	58MV(B)040-14	CNRRH*2417A**	1.02	0.94	58MV(B)040-14	0.94	58MV(B)040-14	CNRRH*2417A**	1.02	0.93	58MV(B)040-14	0.93	58MV(B)120-20
CSRH*3012A**	1.02	1.00	58MV(B)040-14	CNRRH*3017A**	1.01	0.93	58MV(B)040-14	0.93	58MV(B)040-14	CNRRH*3017A**	1.01	0.94	58MV(B)040-14	0.94	58MV(B)120-20
CAR**2414A**	1.01	0.93	58CV(A)X070-12	CNRRH*2417A**	1.02	0.94	58CV(A)X070-12	0.94	58CV(A)X070-12	CNRRH*2417A**	1.02	0.93	58CV(A)X070-12	0.93	58MV(B)060-14
CAR**3014A**	1.01	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.93	58CV(A)X070-12	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.94	58CV(A)X070-12	0.94	58MV(B)060-14
CNRH*2417A**	1.01	0.93	58CV(A)X070-12	CNRRH*2417A**	1.02	0.94	58CV(A)X070-12	0.94	58CV(A)X070-12	CNRRH*2417A**	1.02	0.93	58CV(A)X070-12	0.93	58MV(B)060-14
CNRH*3017A**	1.01	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.93	58CV(A)X070-12	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.94	58CV(A)X070-12	0.94	58MV(B)060-14
CNRV*2414A**	1.01	0.93	58CV(A)X070-12	CNRRH*2417A**	1.02	0.94	58CV(A)X070-12	0.94	58CV(A)X070-12	CNRRH*2417A**	1.02	0.93	58CV(A)X070-12	0.93	58MV(B)060-14
CNRV*2417A**	1.01	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.93	58CV(A)X070-12	0.93	58CV(A)X070-12	CNRRH*3017A**	1.01	0.94	58CV(A)X070-12	0.94	58MV(B)060-14
CSRH*2412A**	1.01	0.93	58CV(A)X090-16	CNRRH*2417A**	1.02	0.94	58CV(A)X090-16	0.94	58CV(A)X090-16	CNRRH*2417A**	1.02	0.93	58CV(A)X090-16	0.93	58MV(B)080-14
CSRH*3012A**	1.01	0.93	58CV(A)X090-16	CNRRH*3017A**	1.01	0.93	58CV(A)X090-16	0.93	58CV(A)X090-16	CNRRH*3017A**	1.01	0.94	58CV(A)X090-16	0.94	58MV(B)080-14
CAR**2417A**	1.02	1.02	58CV(A)X090-16	CNRRH*2417A**	1.02	0.94	58CV(A)X090-16	0.94	58CV(A)X090-16	CNRRH*2417A**	1.02	0.93	58CV(A)X090-16	0.93	58MV(B)080-20
CAR**3017A**	1.02	1.02	58CV(A)X090-16	CNRRH*3017A**	1.01	0.93	58CV(A)X090-16	0.93	58CV(A)X090-16	CNRRH*3017A**	1.01	0.94	58CV(A)X090-16	0.94	58MV(B)080-20

See notes on pg. 17

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
		75			85			95			105			115			125			
		CFM	EWB	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**		
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†						
		72	40.55	21.23	2.54	39.05	20.65	2.81	37.51	20.07	3.11	35.91	19.46	3.44	34.23	18.83	3.80	32.48	18.19	4.19
		67	36.85	26.34	2.51	35.47	25.75	2.78	34.04	25.14	3.06	32.55	24.52	3.41	31.00	23.87	3.77	29.38	23.19	4.16
1050		63††	34.20	25.42	2.50	32.90	24.82	2.76	31.55	24.21	3.06	30.15	23.58	3.39	28.68	22.92	3.75	27.15	22.23	4.13
		62	33.67	31.35	2.49	32.43	30.70	2.76	31.15	30.01	3.06	29.83	23.27	3.39	28.47	28.47	3.74	27.21	27.21	4.13
		57	32.84	32.84	2.49	31.82	31.82	2.76	30.75	30.75	3.06	29.63	29.63	3.38	28.45	28.45	3.74	27.22	27.22	4.13
		72	41.27	22.23	2.58	39.72	21.65	2.84	38.12	21.06	3.15	36.46	20.44	3.48	34.73	19.81	3.84	32.92	19.15	4.23
1200		67	37.51	27.97	2.55	36.08	27.37	2.82	34.60	26.76	3.12	33.06	26.12	3.45	31.46	25.45	3.81	29.80	24.76	4.20
		62	34.83	26.95	2.54	33.48	26.34	2.80	32.09	25.72	3.10	30.64	25.07	3.43	29.13	24.39	3.79	27.56	23.68	4.17
		57	34.08	34.08	2.53	33.00	33.00	2.80	31.89	31.89	3.10	30.69	30.69	3.43	29.45	29.45	3.79	28.14	28.14	4.18
		72	41.84	23.20	2.61	40.24	22.61	2.88	38.60	22.01	3.18	36.89	21.39	3.52	35.11	20.75	3.88	33.26	20.09	4.27
1350		67	38.04	29.56	2.59	36.57	28.95	2.86	35.05	28.31	3.16	33.47	27.66	3.49	31.83	26.97	3.85	30.13	26.25	4.24
		63††	35.33	28.43	2.57	35.95	27.81	2.84	32.52	27.17	3.14	31.03	26.50	3.47	29.49	25.80	3.82	27.89	25.07	4.21
		62	35.14	35.14	2.57	33.98	33.98	2.84	32.80	32.80	3.14	31.57	31.57	3.47	30.27	30.27	3.83	28.91	28.91	4.22
		57	35.11	35.11	2.57	33.98	33.98	2.84	32.81	32.81	3.14	31.57	31.57	3.47	30.28	30.28	3.83	28.92	28.92	4.23

25HCR36C30 Outdoor Section With FC4DN(FB)086 Indoor Section

Cooling Indoor Model	Capacity	Power	Furnace Model	Cooling Indoor Model	Capacity	Power	Furnace Model	Cooling Indoor Model	Capacity	Power	Furnace Model	Cooling Indoor Model	Capacity	Power	Furnace Model
*FC4DN(FB)086	1.00	1.00	58CV(A,X)070-12	CSRH*4212A**	0.99	0.93	58CV(A,X)155-22	CSRH*4212A**	0.99	0.93	58CV(A,X)155-22	CSRH*3612A**	0.98	0.96	58MBV100-20
FC4DN(FB)042	1.02	1.00	58CV(A,X)070-12	CAR**4224A**	0.99	0.99	58MBV040-14	CAR**4224A**	0.99	0.99	58MBV040-14	CSRH*4212A**	0.99	0.95	58MBV100-20
FK4DNF002	0.98	0.98	58CV(A,X)070-12	CNRH*3617A**	0.97	0.97	58MBV040-14	CNRH*3617A**	0.97	0.97	58MBV040-14	CAR**4224A**	0.99	0.97	58MBV120-20
FK4DNF003	0.99	0.95	58CV(A,X)070-12	CNRH*4221A**	0.99	0.97	58MBV040-14	CNRH*4221A**	0.99	0.97	58MBV040-14	CNRH*3617A**	0.98	0.98	58MBV120-20
CAR**3614A**	0.95	0.95	58CV(A,X)070-12	CSRH*3612A**	0.97	0.95	58MBV040-14	CSRH*3612A**	0.97	0.95	58MBV040-14	CNRH*4221A**	0.99	0.96	58MBV120-20
CNRH*3617A**	0.98	0.98	58CV(A,X)070-12	CSRH*4212A**	0.98	0.96	58MBV040-14	CSRH*4212A**	0.98	0.96	58MBV040-14	CNRH*4221A**	0.99	0.96	58MBV120-20
CNRH*4221A**	0.99	0.97	58CV(A,X)070-12	CAR**3617A**	0.98	0.98	58MBV060-14	CAR**3617A**	0.98	0.98	58MBV060-14	CSRH*3612A**	0.98	0.96	58MBV120-20
CSRH*3612A**	0.97	0.95	58CV(A,X)070-12	CNRH*4221A**	0.98	0.98	58MBV060-14	CNRH*4221A**	0.98	0.98	58MBV060-14	CNRH*4221A**	0.99	0.96	58MBV120-20
CSRH*4212A**	0.99	0.97	58CV(A,X)070-12	CNRH*3617A**	0.98	0.98	58MBV060-14	CNRH*3617A**	0.98	0.98	58MBV060-14	CSRH*3612A**	0.98	0.96	58MBV120-20
CAR**3617A**	0.98	0.96	58CV(A,X)090-16	CNRV*3612A**	0.98	0.98	58MBV060-14	CNRV*3612A**	0.98	0.98	58MBV060-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*3617A**	0.98	0.98	58CV(A,X)090-16	CSRH*3612A**	0.98	0.96	58MBV060-14	CSRH*3612A**	0.98	0.96	58MBV060-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*4221A**	0.99	0.98	58CV(A,X)090-16	CSRH*4212A**	0.99	0.95	58MBV060-14	CSRH*4212A**	0.99	0.95	58MBV060-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRV*3617A**	0.98	0.98	58CV(A,X)090-16	CAR**3621A**	0.98	0.98	58MBV080-14	CAR**3621A**	0.98	0.98	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*3612A**	0.98	0.95	58CV(A,X)090-16	CAR**4221A**	0.98	0.98	58MBV080-14	CAR**4221A**	0.98	0.98	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*4212A**	0.99	0.95	58CV(A,X)090-16	CNRH*4221A**	0.99	0.97	58MBV080-14	CNRH*4221A**	0.99	0.97	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CAR**3621A**	0.98	0.96	58CV(A,X)110-20	CNRV*4221A**	0.99	0.97	58MBV080-14	CNRV*4221A**	0.99	0.97	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CAR**4221A**	0.99	0.98	58CV(A,X)110-20	CSRH*3612A**	0.97	0.97	58MBV080-14	CSRH*3612A**	0.97	0.97	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*3617A**	0.98	0.98	58CV(A,X)110-20	CSRH*4212A**	0.98	0.96	58MBV080-14	CSRH*4212A**	0.98	0.96	58MBV080-14	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*4221A**	1.00	0.96	58CV(A,X)110-20	CAR**3621A**	0.98	0.98	58MBV080-20	CAR**3621A**	0.98	0.98	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRV*3621A**	0.98	0.98	58CV(A,X)110-20	CAR**4221A**	0.98	0.98	58MBV080-20	CAR**4221A**	0.98	0.98	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*3612A**	0.98	0.95	58CV(A,X)110-20	CNRH*4221A**	0.99	0.97	58MBV080-20	CNRH*4221A**	0.99	0.97	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*4212A**	0.99	0.96	58CV(A,X)110-20	CNRV*3621A**	0.98	0.98	58MBV080-20	CNRV*3621A**	0.98	0.98	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CAR**4224A**	0.99	0.96	58CV(A,X)135-22	CNRV*4221A**	0.99	0.98	58MBV080-20	CNRV*4221A**	0.99	0.98	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*3617A**	0.98	0.98	58CV(A,X)135-22	CNRH*4212A**	0.98	0.96	58MBV080-20	CNRH*4212A**	0.98	0.96	58MBV080-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*4221A**	1.00	0.96	58CV(A,X)135-22	CAR**3621A**	0.98	0.98	58MBV100-20	CAR**3621A**	0.98	0.98	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*3612A**	0.98	0.95	58CV(A,X)135-22	CAR**4221A**	0.98	0.98	58MBV100-20	CAR**4221A**	0.98	0.98	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*4212A**	0.99	0.96	58CV(A,X)135-22	CNRH*3617A**	0.98	0.98	58MBV100-20	CNRH*3617A**	0.98	0.98	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CAR**4224A**	0.99	0.96	58CV(A,X)155-22	CNRH*4221A**	0.99	0.98	58MBV100-20	CNRH*4221A**	0.99	0.98	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*3617A**	0.98	0.96	58CV(A,X)155-22	CNRV*3617A**	0.98	0.96	58MBV100-20	CNRV*3617A**	0.98	0.96	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CNRH*4221A**	1.00	0.96	58CV(A,X)155-22	CNRH*3621A**	0.98	0.98	58MBV100-20	CNRH*3621A**	0.98	0.98	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20
CSRH*3612A**	0.98	0.95	58CV(A,X)155-22	CNRV*4221A**	0.98	0.96	58MBV100-20	CNRV*4221A**	0.98	0.96	58MBV100-20	CSRH*4212A**	0.99	0.95	58MBV120-20

See notes on pg. 17



DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
		75				85				95				105				115				125			
		CFM	EWB	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**				
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†					
25HCR348C30 Outdoor Section With FC4DN(FB)048 Indoor Section																									
1400	72		56.21	28.99	3.38	54.21	28.21	3.75	52.11	27.40	4.17	49.91	26.56	4.64	47.60	25.69	5.14	45.17	24.78	5.69					
	67		50.95	35.73	3.35	49.09	34.93	3.72	47.13	34.09	4.14	45.09	33.23	4.60	42.95	32.33	5.10	40.70	31.39	5.64					
	63††		47.21	34.48	3.32	45.45	33.67	3.70	43.61	32.83	4.11	41.68	31.95	4.57	39.65	31.04	5.06	37.52	30.09	5.59					
	62		46.37	42.45	3.32	44.67	41.60	3.69	42.90	40.70	4.11	41.06	39.73	4.56	39.16	38.67	5.06	37.28	37.28	5.59					
	57		44.92	44.92	3.31	43.55	43.55	3.69	42.11	42.11	4.10	40.59	40.59	4.56	38.98	38.98	5.06	37.28	37.28	5.59					
1600	72		57.34	30.38	3.44	55.26	29.59	3.82	53.08	28.77	4.24	50.79	27.92	4.70	48.39	27.04	5.21	45.88	26.12	5.76					
	67		51.97	37.99	3.41	50.03	37.17	3.78	48.00	36.32	4.20	45.88	35.44	4.66	43.66	34.52	5.16	41.34	33.56	5.70					
	63††		48.15	36.59	3.38	46.33	35.77	3.76	44.42	34.91	4.17	42.42	34.01	4.63	40.32	33.08	5.12	38.13	32.11	5.66					
	62		47.44	45.41	3.38	45.72	44.48	3.76	43.94	43.45	4.17	42.15	42.15	4.63	40.45	40.45	5.13	38.66	38.66	5.67					
	57		46.73	46.73	3.38	45.28	45.28	3.75	43.76	43.76	4.17	42.15	42.15	4.63	40.46	40.46	5.13	38.67	38.67	5.67					
1800	72		58.21	31.70	3.50	56.06	30.90	3.88	53.81	30.07	4.30	51.45	29.21	4.76	48.99	28.32	5.27	46.41	27.39	5.82					
	67		52.75	40.15	3.47	50.75	39.31	3.84	48.66	38.45	4.26	46.48	37.55	4.72	44.21	36.61	5.22	41.83	35.62	5.77					
	63††		48.88	38.60	3.44	47.00	37.76	3.82	45.04	36.88	4.23	42.99	35.97	4.69	40.84	35.01	5.19	38.60	34.01	5.72					
	62		48.48	47.87	3.44	46.75	46.75	3.82	45.14	45.14	4.24	43.46	43.46	4.70	41.69	41.69	5.20	39.82	39.82	5.74					
	57		48.26	48.26	3.44	46.74	46.74	3.82	45.14	45.14	4.24	43.46	43.46	4.70	41.69	41.69	5.20	39.82	39.82	5.74					

Cooling Indoor Model	Capacity	Power	Furnace Model	
			Capacity	Power
CAR**4821A**	0.96	0.96	56MV8080-20	0.96
CAR**6021A**	0.98	0.96	56MV8080-20	0.96
CNRH*4821A**	0.96	0.96	56MV8080-20	0.96
CNRH*6024A**	0.98	0.96	56MV8080-20	0.96
CNRV*4821A**	0.96	0.96	56MV8080-20	0.96
CNRH*4812A**	0.96	0.96	56MV8080-20	0.96
CSRH*6012A**	0.98	0.94	56MV8080-20	0.94
CAR**4821A**	0.96	0.96	56MV100-20	0.96
CAR**6021A**	0.99	0.95	56MV100-20	0.95
CNRH*4821A**	0.96	0.94	56MV100-20	0.94
CNRH*6024A**	0.98	0.94	56MV100-20	0.94
CNRV*4821A**	0.96	0.94	56MV100-20	0.94
CNRH*6024A**	0.98	0.94	56MV100-20	0.94
CNRV*4812A**	0.96	0.94	56MV100-20	0.94
CSRH*4812A**	0.96	0.94	56MV100-20	0.94
CSRH*6012A**	0.98	0.94	56MV100-20	0.94
CAR**4824A**	0.96	0.94	56MV120-20	0.94
CAR**6024A**	0.99	0.94	56MV120-20	0.94
CNRH*4824A**	0.98	0.94	56MV120-20	0.94
CNRH*6024A**	0.98	0.94	56MV120-20	0.94
CNRV*4824A**	0.96	0.94	56MV120-20	0.94
CNRH*6024A**	0.98	0.94	56MV120-20	0.94
CNRV*4812A**	0.96	0.94	56MV120-20	0.94
CSRH*4812A**	0.96	0.94	56MV120-20	0.94
CSRH*6012A**	0.98	0.94	56MV120-20	0.94

See notes on pg. 17

Cooling Indoor Model	Capacity	Power	Furnace Model	
			Capacity	Power
*FC4DN(FB)048	1.00	1.00	56CV(A)090-16	0.92
FC4DN(FB)060	1.02	0.96	56CV(A)090-16	0.94
FK4DNB006	1.01	0.95	56CV(A)090-16	0.94
FK4DNF005	0.99	0.95	56CV(A)090-16	0.94
CSRH*6012A**	0.98	0.93	56CV(A)110-20	0.94
CAR**4817A**	0.94	0.92	56CV(A)110-20	0.95
CNRH*4821A**	0.96	0.94	56CV(A)110-20	0.94
CNRH*6024A**	0.98	0.94	56CV(A)110-20	0.94
CSRH*4812A**	0.96	0.94	56CV(A)110-20	0.94
CSRH*6012A**	0.98	0.94	56CV(A)110-20	0.94
CAR**4821A**	0.96	0.94	56CV(A)110-20	0.94
CAR**6021A**	0.99	0.95	56CV(A)110-20	0.95
CNRH*4821A**	0.97	0.95	56CV(A)110-20	0.95
CNRH*6024A**	0.99	0.95	56CV(A)110-20	0.95
CSRH*4812A**	0.96	0.94	56CV(A)110-20	0.94
CSRH*6012A**	0.98	0.94	56CV(A)110-20	0.94
CAR**4824A**	0.97	0.93	56CV(A)135-22	0.93
CAR**6024A**	0.99	0.95	56CV(A)135-22	0.95
CNRH*4821A**	0.97	0.93	56CV(A)135-22	0.93
CNRH*6024A**	0.99	0.95	56CV(A)135-22	0.95
CNRV*4824A**	0.97	0.93	56CV(A)135-22	0.93
CNRV*6024A**	0.99	0.95	56CV(A)135-22	0.95
CSRH*4812A**	0.97	0.93	56CV(A)135-22	0.93
CSRH*6012A**	0.99	0.93	56CV(A)135-22	0.93
CAR**4824A**	0.97	0.93	56CV(A)155-22	0.93
CAR**6024A**	0.99	0.93	56CV(A)155-22	0.93
CNRH*4821A**	0.97	0.93	56CV(A)155-22	0.93
CNRH*6024A**	0.99	0.93	56CV(A)155-22	0.93
CNRV*4824A**	0.97	0.93	56CV(A)155-22	0.93
CNRV*6024A**	0.99	0.93	56CV(A)155-22	0.93
CSRH*4812A**	0.97	0.93	56CV(A)155-22	0.93
CSRH*6012A**	0.99	0.93	56CV(A)155-22	0.93

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
CFM	EWB	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†				
25HCR360C30 Outdoor Section With FC4DN(FB)060 Indoor Section																			
	72	69.08	35.57	4.41	66.46	34.55	4.82	63.76	33.51	5.28	60.98	32.46	5.79	58.07	31.36	6.35	55.03	30.23	6.95
	67	63.00	44.16	4.34	60.58	43.11	4.75	58.07	42.04	5.21	55.49	40.95	5.72	52.81	39.83	6.27	50.00	38.66	6.87
1750	63††	58.60	42.72	4.29	56.33	41.68	4.71	53.00	40.00	5.00	51.56	39.50	5.67	49.03	38.37	6.21	46.39	37.19	6.81
	62	57.53	52.69	4.28	55.33	51.59	4.70	53.07	50.45	5.15	50.75	49.24	5.66	48.37	47.91	6.21	46.07	46.07	6.80
	57	55.75	55.75	4.27	53.98	53.98	4.68	52.14	52.14	5.14	50.22	50.22	5.65	48.20	48.20	6.20	46.08	46.08	6.80
	72	70.29	37.22	4.50	67.57	36.18	4.92	64.76	35.13	5.38	61.88	34.07	5.89	58.86	32.96	6.44	55.72	31.81	7.05
	67	64.12	46.90	4.44	61.60	45.84	4.85	59.00	44.75	5.31	56.33	43.65	5.82	53.55	42.49	6.37	50.65	41.30	6.97
2000	63††	59.68	45.29	4.39	57.32	44.23	4.80	54.88	43.13	5.26	52.36	42.01	5.76	49.74	40.85	6.31	47.02	39.64	6.90
	62	58.77	56.33	4.38	56.52	55.12	4.79	54.24	53.79	5.25	52.03	52.03	5.76	49.89	49.89	6.31	47.64	47.64	6.92
	57	57.93	57.93	4.37	56.04	56.04	4.79	54.08	54.08	5.25	52.04	52.04	5.76	49.89	49.89	6.31	47.64	47.64	6.92
	72	71.19	38.78	4.60	68.38	37.73	5.01	65.49	36.67	5.47	62.53	35.60	5.98	59.43	34.48	6.54	56.21	33.32	7.14
	67	64.95	49.52	4.53	62.36	48.43	4.94	59.68	47.33	5.40	56.94	46.20	5.91	54.09	45.03	6.46	51.12	43.81	7.06
2250	63††	60.49	47.73	4.48	58.05	46.64	4.89	55.54	45.53	5.35	52.95	44.38	5.85	50.27	43.20	6.40	47.49	41.96	7.00
	62	59.88	59.44	4.48	57.72	57.72	4.89	55.66	55.66	5.35	53.51	53.51	5.86	51.27	51.27	6.42	48.91	48.91	7.02
	57	59.72	59.72	4.48	57.73	57.73	4.89	55.66	55.66	5.35	53.52	53.52	5.86	51.28	51.28	6.42	48.91	48.91	7.02

Cooling Indoor Model	Capacity	Power	Furnace Model
*FC4DN(FB)060	1.00	1.00	
FK4DNB006	0.99	0.97	
CSRH*6012A**	0.97	0.97	58CV(A)135-22
CAR**6024A**	0.98	0.98	58CV(A)155-22
CNRH*6024A**	0.97	0.97	58CV(A)155-22
CNRV*6024A**	0.97	0.97	58CV(A)155-22
CSRH*6012A**	0.98	0.97	58CV(A)155-22

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 the same elevation per ARI standard 210/240-94. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
 † Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
 ‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 BtuH (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 BtuH (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).
 ** 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 deg F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
65	700	9.44	8.68	1.55	10.85	1.61	14.36	1.68	17.25	1.92	20.46	1.86	23.99	2.08	27.61	2.10	31.25	2.23	35.00	2.35	38.88	2.47	42.76	2.59	46.64
	800	9.61	8.85	1.57	11.18	1.64	14.77	1.69	17.71	1.97	21.07	1.84	24.32	2.04	27.53	2.04	30.88	2.16	34.76	2.28	38.39	2.40	41.90	2.52	45.52
	900	9.78	9.00	1.59	12.17	1.64	15.74	1.76	19.08	1.84	22.46	1.93	25.36	2.04	29.36	2.15	33.32	2.26	36.82	2.38	40.28	2.50	43.74	2.62	47.20
70	700	9.17	8.43	1.61	10.63	1.69	14.13	1.76	16.99	1.95	20.17	1.86	23.67	2.08	27.42	2.02	31.11	2.35	34.64	2.47	38.15	2.59	41.66	2.71	45.18
	800	9.35	8.60	1.63	11.76	1.70	14.34	1.76	17.23	1.93	20.45	1.89	24.00	2.05	27.46	2.15	30.88	2.28	34.39	2.40	37.89	2.52	41.40	2.64	44.92
	900	9.51	8.75	1.66	11.93	1.72	14.52	1.77	17.42	1.93	20.69	1.93	24.25	2.04	27.33	2.12	30.52	2.23	33.91	2.35	37.42	2.47	40.94	2.59	44.47
75	700	8.87	8.16	1.68	11.31	1.76	13.90	1.84	16.72	1.98	19.86	1.87	23.36	2.04	27.20	2.34	30.95	2.47	34.56	2.59	38.17	2.71	41.78	2.84	45.00
	800	9.06	8.33	1.70	11.51	1.78	14.11	1.85	16.96	1.92	20.17	1.85	23.68	2.04	27.32	2.26	30.82	2.38	34.43	2.50	38.02	2.62	41.53	2.74	44.94
	900	9.22	8.49	1.73	11.68	1.80	14.29	1.88	17.18	1.92	20.40	1.87	23.95	2.02	27.30	2.23	30.56	2.35	34.30	2.47	37.81	2.59	40.82	2.71	44.34

25HCR324C30 Outdoor Section With FA4CN(F)CJ024 Indoor Section

Heating Indoor Model	Capacity		Power	Furnace Model		Heating Indoor Model	Capacity		Power	Furnace Model	
	Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*
*FA4CN(F)CJ024	1.00	0.98	1.00	56CV(A,X)110-20	56CV(A,X)110-20	CSRH*2412A**	0.99	0.94	0.94	56CV(A,X)110-20	56CV(A,X)110-20
FA4CN(F)CJ030	1.00	0.98	0.98	56CV(A,X)110-20	56CV(A,X)110-20	CSRH*3012A**	0.99	0.93	0.93	56CV(A,X)110-20	56CV(A,X)110-20
FC4DNF024	1.00	0.95	0.95	56CV(A,X)135-22	56CV(A,X)135-22	CNRH*2417A**	0.99	0.94	0.94	56CV(A,X)135-22	56CV(A,X)135-22
FC4DNF030	1.00	0.93	0.93	56CV(A,X)135-22	56CV(A,X)135-22	CNRH*3017A**	0.98	0.93	0.93	56CV(A,X)135-22	56CV(A,X)135-22
FF1ENE024	1.00	1.00	1.00	56CV(A,X)135-22	56CV(A,X)135-22	CSRH*2412A**	0.99	0.94	0.94	56CV(A,X)135-22	56CV(A,X)135-22
FF1ENE030	1.00	1.00	1.00	56CV(A,X)135-22	56CV(A,X)135-22	CSRH*3012A**	0.98	0.93	0.93	56CV(A,X)135-22	56CV(A,X)135-22
FK4DNF001	0.99	0.95	0.95	56CV(A,X)155-22	56CV(A,X)155-22	CNRH*2417A**	0.99	0.93	0.93	56CV(A,X)155-22	56CV(A,X)155-22
FK4DNF002	0.99	0.92	0.92	56CV(A,X)155-22	56CV(A,X)155-22	CNRH*3017A**	0.98	0.93	0.93	56CV(A,X)155-22	56CV(A,X)155-22
FK4DNF003	0.98	0.91	0.91	56CV(A,X)155-22	56CV(A,X)155-22	CSRH*2412A**	0.99	0.94	0.94	56CV(A,X)155-22	56CV(A,X)155-22
CAR**2414A**	1.00	0.98	0.98	56CV(A,X)155-22	56CV(A,X)155-22	CSRH*3012A**	0.98	0.93	0.93	56CV(A,X)155-22	56CV(A,X)155-22
CAR**2417A**	1.00	0.98	0.98	56MV(B)040-14	56MV(B)040-14	CNRH*2417A**	0.99	0.94	0.94	56MV(B)040-14	56MV(B)040-14
CAR**3014A**	1.00	0.99	0.99	56MV(B)040-14	56MV(B)040-14	CNRH*3017A**	0.98	0.93	0.93	56MV(B)040-14	56MV(B)040-14
CAR**3017A**	1.00	0.99	0.99	56MV(B)040-14	56MV(B)040-14	CSRH*2412A**	1.00	0.95	0.95	56MV(B)040-14	56MV(B)040-14
CNRH*2418A**	1.00	0.96	0.96	56MV(B)040-14	56MV(B)040-14	CSRH*3012A**	0.98	0.93	0.93	56MV(B)040-14	56MV(B)040-14
CNRH*2417A**	1.00	0.96	0.96	56MV(B)060-14	56MV(B)060-14	CAR**2417A**	0.99	0.95	0.95	56MV(B)060-14	56MV(B)060-14
CNRH*3017A**	1.00	0.99	0.99	56MV(B)060-14	56MV(B)060-14	CAR**3017A**	0.98	0.94	0.94	56MV(B)060-14	56MV(B)060-14
CNRV*2414A**	1.00	0.96	0.96	56MV(B)060-14	56MV(B)060-14	CNRH*2417A**	0.99	0.94	0.94	56MV(B)060-14	56MV(B)060-14
CNRV*2417A**	1.00	0.96	0.96	56MV(B)060-14	56MV(B)060-14	CNRH*3017A**	0.98	0.93	0.93	56MV(B)060-14	56MV(B)060-14
CNRV*3014A**	1.00	0.99	0.99	56MV(B)060-14	56MV(B)060-14	CNRV*2417A**	0.99	0.94	0.94	56MV(B)060-14	56MV(B)060-14
CNRV*3017A**	1.00	0.99	0.99	56MV(B)060-14	56MV(B)060-14	CNRV*3017A**	0.98	0.93	0.93	56MV(B)060-14	56MV(B)060-14
CSRH*2412A**	1.00	0.96	0.96	56MV(B)060-14	56MV(B)060-14	CSRH*2412A**	0.99	0.94	0.94	56MV(B)060-14	56MV(B)060-14
CSRH*3012A**	1.00	0.99	0.99	56MV(B)060-14	56MV(B)060-14	CSRH*3012A**	0.98	0.93	0.93	56MV(B)060-14	56MV(B)060-14
CAR**2414A**	0.99	0.96	0.96	56MV(B)080-14	56MV(B)080-14	CNRH*2417A**	0.99	0.94	0.94	56MV(B)080-14	56MV(B)080-14
CAR**3014A**	0.98	0.94	0.94	56MV(B)080-14	56MV(B)080-14	CNRH*3017A**	0.98	0.93	0.93	56MV(B)080-14	56MV(B)080-14
CNRH*2417A**	0.99	0.94	0.94	56MV(B)080-14	56MV(B)080-14	CSRH*2412A**	0.99	0.94	0.94	56MV(B)080-14	56MV(B)080-14
CNRH*3017A**	0.98	0.94	0.94	56MV(B)080-14	56MV(B)080-14	CSRH*3012A**	0.98	0.93	0.93	56MV(B)080-14	56MV(B)080-14
CNRV*2414A**	0.99	0.94	0.94	56MV(B)080-20	56MV(B)080-20	CNRH*2417A**	0.99	0.94	0.94	56MV(B)080-20	56MV(B)080-20
CNRV*2417A**	0.98	0.94	0.94	56MV(B)080-20	56MV(B)080-20	CNRH*3017A**	0.98	0.93	0.93	56MV(B)080-20	56MV(B)080-20
CNRV*3014A**	0.99	0.94	0.94	56MV(B)080-20	56MV(B)080-20	CSRH*2412A**	0.99	0.94	0.94	56MV(B)080-20	56MV(B)080-20
CNRV*3017A**	0.98	0.94	0.94	56MV(B)080-20	56MV(B)080-20	CSRH*3012A**	0.98	0.93	0.93	56MV(B)080-20	56MV(B)080-20
CSRH*2417A**	0.99	0.93	0.93	56MV(B)100-20	56MV(B)100-20	CNRH*2417A**	0.99	0.93	0.93	56MV(B)100-20	56MV(B)100-20
CSRH*3017A**	0.98	0.93	0.93	56MV(B)100-20	56MV(B)100-20	CNRH*3017A**	0.98	0.93	0.93	56MV(B)100-20	56MV(B)100-20
CNRH*2417A**	0.99	0.93	0.93	56MV(B)100-20	56MV(B)100-20	CSRH*2412A**	0.99	0.93	0.93	56MV(B)100-20	56MV(B)100-20
CNRH*3017A**	0.98	0.93	0.93	56MV(B)100-20	56MV(B)100-20	CSRH*3012A**	0.98	0.93	0.93	56MV(B)100-20	56MV(B)100-20
CNRV*2417A**	0.99	0.93	0.93	56MV(B)120-20	56MV(B)120-20	CNRH*2417A**	0.99	0.95	0.95	56MV(B)120-20	56MV(B)120-20
CNRV*3017A**	0.98	0.93	0.93	56MV(B)120-20	56MV(B)120-20	CNRH*3017A**	0.98	0.94	0.94	56MV(B)120-20	56MV(B)120-20
CSRH*2412A**	0.99	0.93	0.93	56MV(B)120-20	56MV(B)120-20	CSRH*2412A**	0.99	0.95	0.95	56MV(B)120-20	56MV(B)120-20
CSRH*3012A**	0.98	0.93	0.93	56MV(B)120-20	56MV(B)120-20	CSRH*3012A**	0.98	0.95	0.95	56MV(B)120-20	56MV(B)120-20
CNRH*2417A**	0.99	0.94	0.94	56MV(B)120-20	56MV(B)120-20	CSRH*3012A**	0.99	0.94	0.94	56MV(B)120-20	56MV(B)120-20

See notes on pg. 21

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT			
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	Total
65	1050	15.00	13.80	2.80	17.01	2.40	22.45	20.47	2.52	26.85	23.85	2.68	31.67	28.82	2.84	35.35	32.35	2.97	39.39	36.39	3.00	41.38	38.38	3.00	
	1200	15.19	13.97	2.31	18.73	1.72	22.70	20.69	2.52	27.13	24.09	2.67	31.46	28.63	2.79	34.88	31.88	2.92	37.68	34.68	2.91	41.38	38.38	3.00	
	1350	15.37	14.14	2.33	18.92	1.79	22.91	20.89	2.52	27.37	24.31	2.67	31.15	28.35	2.77	34.37	31.37	2.88	35.27	32.27	2.91	41.38	38.38	3.00	
	1050	14.67	13.50	2.39	18.22	1.674	2.51	22.12	20.17	2.63	26.49	23.52	2.80	31.32	28.50	2.99	35.45	32.45	3.12	39.57	36.57	3.00	42.44	39.44	3.00
	1200	14.86	13.67	2.41	18.42	1.693	2.51	22.37	20.39	2.63	26.76	23.77	2.78	31.52	28.68	2.93	35.00	32.00	3.06	38.80	35.80	3.00	42.44	39.44	3.00
70	1350	15.04	13.84	2.42	18.60	1.709	2.52	22.57	20.58	2.63	26.99	23.97	2.78	31.29	28.47	2.90	34.58	31.58	3.03	36.93	33.93	3.00	41.38	38.38	3.00
	1050	14.32	13.17	2.49	17.88	1.643	2.62	21.77	19.85	2.75	26.10	23.18	2.92	30.91	28.13	3.13	35.47	32.47	3.28	39.61	36.61	3.00	41.38	38.38	3.00
	1200	14.52	13.36	2.50	18.09	1.663	2.62	22.01	20.07	2.74	26.40	23.45	2.90	31.25	28.44	3.08	35.14	32.14	3.21	38.99	35.99	3.00	41.38	38.38	3.00
	1350	14.70	13.52	2.52	18.28	1.680	2.63	22.23	20.27	2.74	26.63	23.65	2.90	31.36	28.54	3.05	34.75	31.75	3.17	38.21	35.21	3.00	41.38	38.38	3.00
	1050	14.86	13.67	2.41	18.42	1.693	2.51	22.37	20.39	2.63	26.76	23.77	2.78	31.52	28.68	2.93	35.00	32.00	3.06	38.80	35.80	3.00	41.38	38.38	3.00
75	1050	14.32	13.17	2.49	17.88	1.643	2.62	21.77	19.85	2.75	26.10	23.18	2.92	30.91	28.13	3.13	35.47	32.47	3.28	39.61	36.61	3.00	41.38	38.38	3.00
	1200	14.52	13.36	2.50	18.09	1.663	2.62	22.01	20.07	2.74	26.40	23.45	2.90	31.25	28.44	3.08	35.14	32.14	3.21	38.99	35.99	3.00	41.38	38.38	3.00
	1350	14.70	13.52	2.52	18.28	1.680	2.63	22.23	20.27	2.74	26.63	23.65	2.90	31.36	28.54	3.05	34.75	31.75	3.17	38.21	35.21	3.00	41.38	38.38	3.00
	1050	14.86	13.67	2.41	18.42	1.693	2.51	22.37	20.39	2.63	26.76	23.77	2.78	31.52	28.68	2.93	35.00	32.00	3.06	38.80	35.80	3.00	41.38	38.38	3.00
	1200	15.04	13.84	2.42	18.60	1.709	2.52	22.57	20.58	2.63	26.99	23.97	2.78	31.29	28.47	2.90	34.58	31.58	3.03	36.93	33.93	3.00	41.38	38.38	3.00

25HCR36C30 Outdoor Section With FC4DN(FB)036 Indoor Section

Heating Indoor Model		Capacity		Power		Furnace Model	
Model	Capacity	Power	Model	Capacity	Power	Model	Furnace Model
*FC4DN(FB)036	1.00	1.00	CNRH*4221A**	0.99	0.98	58MV600-14	58MV600-14
FC4DN(FB)042	0.92	0.93	CNRV*3617A**	1.01	1.02	58MV600-14	58MV600-14
FK4DNF002	1.04	1.01	CSRH*3612A**	0.98	0.97	58MV600-14	58MV600-14
FK4DNF003	1.00	0.99	CSRH*4212A**	0.97	0.95	58MV600-14	58MV600-14
CAR**3614A**	0.98	1.00	CAR**3621A**	1.01	1.02	58MV600-14	58MV600-14
CNRH*3617A**	1.02	1.03	CAR**4221A**	1.00	1.00	58MV600-14	58MV600-14
CNRH*4221A**	1.00	0.99	CNRH*4221A**	1.00	0.99	58MV600-14	58MV600-14
CSRH*3612A**	0.98	0.98	CNRV*4221A**	1.00	0.99	58MV600-14	58MV600-14
CSRH*4212A**	0.97	0.96	CSRH*3612A**	0.99	0.99	58MV600-14	58MV600-14
CAR**3617A**	1.01	1.01	CSRH*4212A**	0.97	0.97	58MV600-14	58MV600-14
CNRH*3617A**	1.01	1.01	CAR**3621A**	1.01	1.01	58MV600-20	58MV600-20
CNRH*4221A**	0.99	0.97	CAR**4221A**	1.00	1.00	58MV600-20	58MV600-20
CNRV*3617A**	1.01	1.01	CNRH*3617A**	1.01	1.02	58MV600-20	58MV600-20
CSRH*3612A**	0.98	0.97	CNRH*4221A**	0.99	0.98	58MV600-20	58MV600-20
CSRH*4212A**	0.97	0.95	CNRV*3621A**	1.01	1.02	58MV600-20	58MV600-20
CAR**3621A**	1.01	1.00	CNRV*4221A**	0.99	0.98	58MV600-20	58MV600-20
CAR**4221A**	1.01	1.01	CSRH*3612A**	0.98	0.97	58MV600-20	58MV600-20
CNRH*3617A**	1.01	1.01	CSRH*4212A**	0.97	0.95	58MV600-20	58MV600-20
CNRV*3621A**	1.01	1.01	CAR**3621A**	1.01	1.01	58MV600-20	58MV600-20
CNRV*4221A**	0.99	0.97	CAR**4221A**	1.00	0.99	58MV600-20	58MV600-20
CSRH*3612A**	0.98	0.97	CNRH*3617A**	1.01	1.02	58MV600-20	58MV600-20
CSRH*4212A**	0.97	0.95	CNRH*4221A**	0.99	0.98	58MV600-20	58MV600-20
CAR**3621A**	1.01	1.00	CNRV*3621A**	1.01	1.02	58MV600-20	58MV600-20
CAR**4221A**	1.01	1.01	CNRV*4221A**	0.99	0.98	58MV600-20	58MV600-20
CNRH*3617A**	1.01	1.01	CSRH*3612A**	0.98	0.97	58MV600-20	58MV600-20
CNRV*3621A**	1.01	1.01	CSRH*4212A**	0.97	0.95	58MV600-20	58MV600-20
CNRV*4221A**	0.99	0.97	CAR**3621A**	1.01	1.01	58MV600-20	58MV600-20
CSRH*3612A**	0.98	0.96	CAR**4221A**	1.00	0.99	58MV600-20	58MV600-20
CSRH*4212A**	0.96	0.94	CNRH*3617A**	1.01	1.02	58MV600-20	58MV600-20
CAR**4224A**	0.99	0.98	CNRH*4221A**	0.99	0.98	58MV600-20	58MV600-20
CNRH*3617A**	1.01	1.01	CNRV*3621A**	1.01	1.02	58MV600-20	58MV600-20
CNRH*4221A**	0.99	0.96	CNRV*4221A**	0.98	0.97	58MV600-20	58MV600-20
CSRH*3612A**	0.98	0.96	CSRH*3612A**	0.99	0.99	58MV600-20	58MV600-20
CSRH*4212A**	0.96	0.94	CAR**4224A**	1.01	1.02	58MV600-20	58MV600-20
CAR**4224A**	0.99	0.97	CNRH*3617A**	1.01	1.02	58MV600-20	58MV600-20
CNRH*3617A**	1.01	1.01	CNRH*4221A**	0.99	0.97	58MV600-20	58MV600-20
CNRH*4221A**	0.99	0.96	CNRV*3621A**	1.01	1.01	58MV600-20	58MV600-20
CSRH*3612A**	0.98	0.95	CNRV*4221A**	0.98	0.97	58MV600-20	58MV600-20
CSRH*4212A**	0.96	0.93	CSRH*3612A**	0.99	0.98	58MV600-20	58MV600-20
CAR**4224A**	1.00	1.00	CAR**4224A**	1.01	1.02	58MV600-20	58MV600-20
CNRH*3617A**	1.01	1.03	CNRH*3617A**	1.01	1.02	58MV600-20	58MV600-20
CNRH*4221A**	1.00	0.99	CNRH*4221A**	0.99	0.97	58MV600-20	58MV600-20
CSRH*3612A**	0.99	0.98	CNRV*3621A**	1.01	1.01	58MV600-20	58MV600-20
CSRH*4212A**	0.97	0.97	CNRV*4221A**	0.98	0.97	58MV600-20	58MV600-20
CAR**3617A**	1.01	1.01	CSRH*3612A**	0.99	0.98	58MV600-20	58MV600-20
CAR**4221A**	1.01	1.02	CSRH*4212A**	1.01	1.02	58MV600-20	58MV600-20

See notes on pg. 21

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT	Capacity MBtuh		Total Sys-tem KWT			
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	Total
65	1400	19.51	17.95	3.08	24.04	22.09	3.22	29.05	26.49	3.37	34.70	30.82	3.55	41.06	37.36	3.78	48.15	48.15	4.05	56.11	56.11	4.33	63.47	63.47	4.64
	1600	19.80	18.21	3.10	24.33	22.36	3.23	29.39	26.80	3.37	35.08	31.15	3.56	41.49	37.76	3.76	48.59	48.59	4.02	55.54	55.54	4.23	62.05	62.05	4.51
	1800	20.05	18.45	3.14	24.59	22.60	3.25	29.69	27.07	3.39	35.45	31.48	3.55	41.82	38.06	3.76	48.80	48.80	3.96	54.86	54.86	4.19	58.16	58.16	4.31
	1400	19.06	17.54	3.20	23.66	21.74	3.36	28.62	26.10	3.53	34.25	30.42	3.72	40.52	36.88	3.95	47.51	47.51	4.23	55.50	55.50	4.57	63.51	63.51	4.87
	1600	19.35	17.80	3.23	23.95	22.01	3.37	28.96	26.41	3.52	34.63	30.75	3.70	40.98	37.29	3.93	48.00	48.00	4.20	55.54	55.54	4.43	62.59	62.59	4.75
70	1800	19.61	18.05	3.26	24.22	22.26	3.40	29.27	26.68	3.54	34.97	31.06	3.71	41.31	37.59	3.92	48.40	48.40	4.17	54.97	54.97	4.39	60.46	60.46	4.63
	1400	18.56	17.08	3.32	23.24	21.36	3.51	28.20	25.71	3.68	33.75	29.97	3.89	39.98	36.39	4.13	46.92	46.92	4.42	54.74	54.74	4.79	63.08	63.08	5.09
	1600	18.86	17.35	3.35	23.55	21.64	3.52	28.53	26.01	3.68	34.13	30.31	3.87	40.45	36.81	4.10	47.43	47.43	4.38	55.28	55.28	4.67	62.33	62.33	4.96
	1800	19.13	17.60	3.39	23.82	21.89	3.54	28.83	26.29	3.69	34.47	30.61	3.87	40.84	37.16	4.10	47.81	47.81	4.38	54.99	54.99	4.60	59.77	59.77	4.80
	1400	18.56	17.08	3.32	23.24	21.36	3.51	28.20	25.71	3.68	33.75	29.97	3.89	39.98	36.39	4.13	46.92	46.92	4.42	54.74	54.74	4.79	63.08	63.08	5.09
75	1600	18.86	17.35	3.35	23.55	21.64	3.52	28.53	26.01	3.68	34.13	30.31	3.87	40.45	36.81	4.10	47.43	47.43	4.38	55.28	55.28	4.67	62.33	62.33	4.96
	1800	19.13	17.60	3.39	23.82	21.89	3.54	28.83	26.29	3.69	34.47	30.61	3.87	40.84	37.16	4.10	47.81	47.81	4.38	54.99	54.99	4.60	59.77	59.77	4.80
	1400	18.56	17.08	3.32	23.24	21.36	3.51	28.20	25.71	3.68	33.75	29.97	3.89	39.98	36.39	4.13	46.92	46.92	4.42	54.74	54.74	4.79	63.08	63.08	5.09
	1600	18.86	17.35	3.35	23.55	21.64	3.52	28.53	26.01	3.68	34.13	30.31	3.87	40.45	36.81	4.10	47.43	47.43	4.38	55.28	55.28	4.67	62.33	62.33	4.96
	1800	19.13	17.60	3.39	23.82	21.89	3.54	28.83	26.29	3.69	34.47	30.61	3.87	40.84	37.16	4.10	47.81	47.81	4.38	54.99	54.99	4.60	59.77	59.77	4.80

25HCR3C30 Outdoor Section With FC4D(FB)048 Indoor Section

Heating Indoor Model	Capacity	Power	Furnace Model	Heating Indoor Model	Capacity	Power	Furnace Model
CAR**4821A**	0.98	1.04	58MV/B080-20	CAR**4821A**	0.98	1.04	58MV/B080-20
CAR**6021A**	0.98	1.03	58MV/B080-20	CAR**6021A**	0.98	1.03	58MV/B080-20
CNRH*4821A**	0.98	1.03	58MV/B080-20	CNRH*4821A**	0.98	1.03	58MV/B080-20
CNRH*6024A**	0.98	1.03	58MV/B080-20	CNRH*6024A**	0.98	1.03	58MV/B080-20
CNRV*4821A**	0.98	1.04	58MV/B080-20	CNRV*4821A**	0.98	1.04	58MV/B080-20
CNRH*4812A**	0.98	1.03	58MV/B080-20	CNRH*4812A**	0.98	1.03	58MV/B080-20
CSRH*6012A**	0.98	1.01	58MV/B080-20	CSRH*6012A**	0.98	1.01	58MV/B080-20
CAR**4821A**	0.98	1.03	58MV/B100-20	CAR**4821A**	0.98	1.03	58MV/B100-20
CAR**6021A**	0.98	1.02	58MV/B100-20	CAR**6021A**	0.98	1.02	58MV/B100-20
CNRH*4821A**	0.98	1.03	58MV/B100-20	CNRH*4821A**	0.98	1.03	58MV/B100-20
CNRH*6024A**	0.98	1.03	58MV/B100-20	CNRH*6024A**	0.98	1.03	58MV/B100-20
CNRV*4821A**	0.98	1.03	58MV/B100-20	CNRV*4821A**	0.98	1.03	58MV/B100-20
CNRH*4812A**	0.98	1.02	58MV/B100-20	CNRH*4812A**	0.98	1.02	58MV/B100-20
CSRH*6012A**	0.98	1.01	58MV/B100-20	CSRH*6012A**	0.98	1.01	58MV/B100-20
CAR**4821A**	0.98	1.02	58MV/B120-20	CAR**4821A**	0.98	1.02	58MV/B120-20
CAR**6021A**	0.98	1.01	58MV/B120-20	CAR**6021A**	0.98	1.01	58MV/B120-20
CNRH*4821A**	0.98	1.03	58MV/B120-20	CNRH*4821A**	0.98	1.03	58MV/B120-20
CNRH*6024A**	0.98	1.03	58MV/B120-20	CNRH*6024A**	0.98	1.03	58MV/B120-20
CNRV*4821A**	0.98	1.03	58MV/B120-20	CNRV*4821A**	0.98	1.03	58MV/B120-20
CNRH*4812A**	0.98	1.03	58MV/B120-20	CNRH*4812A**	0.98	1.03	58MV/B120-20
CSRH*6012A**	0.98	1.02	58MV/B120-20	CSRH*6012A**	0.98	1.02	58MV/B120-20

See notes on pg. 21

Heating Indoor Model	Capacity	Power	Furnace Model	Heating Indoor Model	Capacity	Power	Furnace Model
*FC4D(FB)048	1.00	1.00		*FC4D(FB)048	1.00	1.00	
FC4DN(FB)060	0.98	0.95		FC4DN(FB)060	0.98	0.95	
FK4DNB006	0.98	0.97		FK4DNB006	0.98	0.97	
FK4DNF005	0.98	1.00		FK4DNF005	0.98	1.00	
CSRH*6012A**	0.98	1.00		CSRH*6012A**	0.98	1.00	
CAR**4817A**	0.96	0.99	58CV(A,X)090-16	CAR**4817A**	0.96	0.99	58CV(A,X)090-16
CNRH*4821A**	0.98	1.03	58CV(A,X)090-16	CNRH*4821A**	0.98	1.03	58CV(A,X)090-16
CNRH*6024A**	0.98	1.03	58CV(A,X)090-16	CNRH*6024A**	0.98	1.03	58CV(A,X)090-16
CSRH*4812A**	0.98	1.02	58CV(A,X)090-16	CSRH*4812A**	0.98	1.02	58CV(A,X)090-16
CSRH*6012A**	0.98	1.01	58CV(A,X)090-16	CSRH*6012A**	0.98	1.01	58CV(A,X)090-16
CAR**4821A**	0.98	1.02	58CV(A,X)110-20	CAR**4821A**	0.98	1.02	58CV(A,X)110-20
CAR**6021A**	0.98	1.02	58CV(A,X)110-20	CAR**6021A**	0.98	1.02	58CV(A,X)110-20
CNRH*4821A**	0.98	1.02	58CV(A,X)110-20	CNRH*4821A**	0.98	1.02	58CV(A,X)110-20
CNRH*6024A**	0.98	1.02	58CV(A,X)110-20	CNRH*6024A**	0.98	1.02	58CV(A,X)110-20
CNRV*4821A**	0.98	1.02	58CV(A,X)110-20	CNRV*4821A**	0.98	1.02	58CV(A,X)110-20
CSRH*4812A**	0.98	1.02	58CV(A,X)110-20	CSRH*4812A**	0.98	1.02	58CV(A,X)110-20
CSRH*6012A**	0.98	1.00	58CV(A,X)110-20	CSRH*6012A**	0.98	1.00	58CV(A,X)110-20
CAR**4824A**	0.98	1.01	58CV(A,X)135-22	CAR**4824A**	0.98	1.01	58CV(A,X)135-22
CNRH*4821A**	0.97	1.01	58CV(A,X)135-22	CNRH*4821A**	0.97	1.01	58CV(A,X)135-22
CNRH*6024A**	0.98	1.01	58CV(A,X)135-22	CNRH*6024A**	0.98	1.01	58CV(A,X)135-22
CNRV*4824A**	0.96	0.99	58CV(A,X)135-22	CNRV*4824A**	0.96	0.99	58CV(A,X)135-22
CNRV*6024A**	0.98	1.01	58CV(A,X)135-22	CNRV*6024A**	0.98	1.01	58CV(A,X)135-22
CSRH*4812A**	0.98	1.01	58CV(A,X)135-22	CSRH*4812A**	0.98	1.01	58CV(A,X)135-22
CSRH*6012A**	0.98	0.99	58CV(A,X)135-22	CSRH*6012A**	0.98	0.99	58CV(A,X)135-22
CAR**4824A**	0.97	1.00	58CV(A,X)155-22	CAR**4824A**	0.97	1.00	58CV(A,X)155-22
CNRH*4821A**	0.97	1.00	58CV(A,X)155-22	CNRH*4821A**	0.97	1.00	58CV(A,X)155-22
CNRH*6024A**	0.97	1.00	58CV(A,X)155-22	CNRH*6024A**	0.97	1.00	58CV(A,X)155-22
CNRV*4824A**	0.97	1.00	58CV(A,X)155-22	CNRV*4824A**	0.97	1.00	58CV(A,X)155-22
CNRV*6024A**	0.97	1.00	58CV(A,X)155-22	CNRV*6024A**	0.97	1.00	58CV(A,X)155-22
CSRH*4812A**	0.97	0.99	58CV(A,X)155-22	CSRH*4812A**	0.97	0.99	58CV(A,X)155-22
CSRH*6012A**	0.98	0.99	58CV(A,X)155-22	CSRH*6012A**	0.98	0.99	58CV(A,X)155-22

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
EDB	CFM	-3		7		17		27		37		47		57		67									
		Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†	Capacity MBtuh	Total Sys-tem kW†								
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*								
65	1750	25.95	28.87	3.95	31.46	28.91	4.10	37.43	34.13	4.27	44.20	39.26	4.46	51.85	47.18	4.69	60.38	56.85	4.89	68.55	64.71	5.15	74.57	70.66	5.35
	2000	26.34	24.23	4.00	31.86	29.28	4.13	37.91	34.56	4.28	44.72	39.72	4.46	52.50	47.77	4.67	60.21	56.47	4.83	66.47	62.64	5.01	74.51	70.66	5.35
	2250	26.69	24.56	4.05	32.23	29.61	4.17	38.34	34.95	4.32	45.20	40.15	4.49	52.97	48.20	4.64	59.85	56.29	4.82	62.69	58.86	4.88	74.72	70.66	5.35
70	1750	25.46	29.42	4.11	31.03	28.51	4.28	36.99	33.73	4.45	43.69	38.81	4.65	51.22	46.61	4.89	59.75	56.30	5.13	68.30	64.90	5.39	74.72	70.66	5.35
	2000	25.85	23.79	4.16	31.44	28.89	4.30	37.45	34.14	4.46	44.22	39.28	4.65	51.82	47.15	4.87	60.00	56.55	5.05	67.83	64.43	5.29	74.72	70.66	5.35
	2250	26.22	24.12	4.21	31.81	29.23	4.35	37.85	34.51	4.50	44.65	39.66	4.67	52.37	47.66	4.87	59.78	56.33	5.03	64.71	61.30	5.17	74.72	70.66	5.35
75	1750	24.93	22.93	4.27	30.56	28.09	4.45	36.57	33.34	4.64	43.17	38.34	4.85	50.61	46.05	5.10	59.02	55.57	5.36	67.93	64.53	5.63	74.72	70.66	5.35
	2000	25.33	23.30	4.32	30.98	28.47	4.48	37.00	33.74	4.65	43.69	38.80	4.85	51.20	46.59	5.08	59.66	56.21	5.28	67.64	64.24	5.53	74.72	70.66	5.35
	2250	25.70	23.64	4.37	31.36	28.82	4.52	37.41	34.11	4.68	44.15	39.21	4.87	51.71	47.06	5.08	59.61	56.16	5.25	65.79	62.39	5.44	74.72	70.66	5.35
Heating Indoor Model		Capacity		Power		Furnace Model																			
*FC4DN(FB)060		1.00		1.00																					
FK4DNB006		0.99		0.99																					
CSRH*6012A**		0.99		1.02		58CV(A.X)135-22																			
CAR**6024A**		0.99		1.02		58CV(A.X)155-22																			
CNRH*6024A**		0.98		1.03		58CV(A.X)155-22																			
CNRV*6024A**		0.98		1.03		58CV(A.X)155-22																			
CSRH*6012A**		0.99		1.02		58CV(A.X)155-22																			

NOTE: When the required data falls 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

GUIDE SPECIFICATIONS

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 217 psig and pressure tested at 450 psig.
- Unit constructed in ISO9001 approved facility.

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 is all factory wiring, piping, controls, compressor, refrigerant charge (R-22), and special features required prior to field start-up.

Unit Cabinet

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

Fans

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

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

25HCR3C

2 TO 5 NOMINAL TONS

- 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.
- Defrost control board which incorporates defrost relay, defrost timer and low voltage terminal board.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

Condenser Coil

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

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of refrigerant, compressor oil, accumulator, loss of charge switch, 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 a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

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