

25HNA6
Infinity™ 16 Series Heat Pump
with Puron® Refrigerant
2 To 5 Nominal Tons (Sizes 24 – 60)



Turn to the Experts.™

Product Data



Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HNA has been designed utilizing Carrier's Puron® refrigerant. The environmentally sound refrigerant allows consumers to make a responsible decision in the protection of the earth's ozone layer.

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 the Product Data for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- 15-16.6 SEER/11.1-12.6 EER/8.4-9.1 HSPF (Nom)

New Aesthetic Design

- WeatherArmor Ultra™
 - Baked-on powder paint
 - Steel louver coil guard
 - Color matched cabinet screws

Extra-Quiet Operation

- Silencer™ System II for sound as low as 70 dBA
 - Quiet mount split post compressor grommets
 - Quiet external Silencer muffler
 - Exclusive Silencer Top design
 - 8 Pole PSC ball-bearing outdoor condenser fan motor
 - Forward-swept condenser fan blade
 - Compressor sound hood
 - Laminated steel compressor mounting plate
- Quiet Shift Defrost

Reliability, Quality and Toughness

- Two-stage reciprocating compressor
- Field-installed 16 cu. in. filter drier
- Back-seating service valves
- High-pressure switch
- Loss-of-charge switch
- Internal pressure-relief valve
- Internal thermal overload
- Long-line accessory connections
- Suction-line accumulator
- Vapor fog eliminator
- Ideal Defrost

Controls and Diagnostics

- Infinity™ Control or Thermostat
- Utility Interface Connection
- Up to 83 point diagnostic capability with Infinity™ Control

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to 0°F/-17.8°C) with complete Infinity™ system.

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	N	A	6	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series		
25 = HP	H = RES HP	n = Infinity Series	A = Puron	6=16 SEER	A = Standard	0=Not Defined	0=Not Defined	3=208/230-1	0, 1, 2...			



This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**

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STANDARD FEATURES

FEATURES	24	36	48	60
Puron Refrigerant	X	X	X	X
Up to 16 SEER		X		
Second Generation Infinity™ Control or Thermostat	X	X	X	X
Two Stage Reciprocating Compressor	X	X	X	X
Weather Armor Ultra™	X	X	X	X
Silencer System II™	X	X	X	X
Field—Installed 16 cu. in. (406.4 mm) Filter Drier	X	X	X	X
Loss—of—Charge Switch	X	X	X	X
High—Pressure Switch	X	X	X	X
Back—Seating Service Valves	X	X	X	X
Internal Pressure—Relief Valve	X	X	X	X
Internal Thermal Overload	X	X	X	X
Long—Line Accessory Solenoid Connections	X	X	X	X
Long Line capability	X	X	X	X
Low Ambient capability to 0°F (–17.8°C) —Standard*	X	X	X	X
Suction—line accumulator	X	X	X	X
Up to 83 Point Diagnostic Checklist with Infinity™ Control	X	X	X	X
Quiet Shift Defrost	X	X	X	X
Vapor Fog Eliminator	X	X	X	X
Ideal Defrost*	X	X	X	X
Utility Interface Connection	X	X	X	X

X = Standard

* With complete Infinity™ System

PHYSICAL DATA

UNIT SIZE SERIES	24–31	36–31	48–31	60–32
Operating Weight lb (kg)	283 (128.4)	310 (140.6)	357 (161.9)	393 (178.3)
Shipping Weight lb (kg)	319 (144.7)	345 (156.5)	394 (178.7)	430 (195.0)
Compressor Type	2–Stage Reciprocating			
REFRIGERANT	Puron® (R–410A)			
Control	TXV (Puron® Hard Shutoff)			
Charge lb (kg)	8.12 (3.68)	10.82 (4.91)	14.00 (6.35)	14.32 (6.49)
Outdoor Heating Piston Number	38	55	57	63
COND FAN	Forward Swept Blade Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	2450	2738	3633	3943
Motor HP	1/12	1/10	1/5	1/5
Motor RPM	800	800	800	800
COND COIL				
Face Area (Sq ft)	20.33	18.30	24.40	24.40
Fins per In.	20	20	20	20
Rows	1	2	2	2
Circuits	5	8	10	10
VALVE CONNECT. (In. ID)				
Vapor	5/8	3/4	7/8	7/8
Liquid	3/8			
REFRIGERANT TUBES (In. OD)				
Rated Vapor*	5/8	3/4	7/8	1–1/8
Max Liquid Line	3/8			

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

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VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for AC systems with Puron refrigerant:

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In.) OD	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)								
			Standard Application		Long Line Application Requires Accessories						
			26–50 (7.9–15.2)	51–80 (15.5–24.4)	81–100 (24.7–30.5)	101–125 (30.8–38.1)	126–150 (38.4–45.7)	151–175 (46.0–50.3)	176–200 (53.6–60.0)	201–225 (61.3–68.6)	226–250 (68.9–76.2)
24,000 2–Stage HP with Puron	3/8	5/8	0	1	1	2	3	3	4	4	5
		3/4	0	1	1	1	1	1	1	1	1
36,000 2–Stage HP with Puron	3/8	5/8	1	2	4	5	6	7	9	10	11
		3/4	0	0	1	1	2	2	3	3	4
48,000 2–Stage HP with Puron	3/8	3/4	0	1	2	3	4	5	5	6	7
		7/8	0	0	1	1	2	2	2	3	3
60,000 2–Stage HP with Puron	3/8	3/4	1	2	4	5	6	8	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1–1/8	0	0	—	—	—	—	—	—	—

Standard Length = 80 ft. (24.4 m) or less total equivalent length

— Applications in this area are not recommended due to insufficient oil return.

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.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the indoor unit.

Maximum Line Lengths for Heat Pump Applications

	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	HP with Puron® Refrigerant – Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0–20 (0 – 6.1)	21–30 (6.4 – 9.1)	31–40 (9.4 – 12.2)	41–50 (12.5 – 15.2)	51–60 (15.5 – 18.3)	61–70 (18.6 – 21.3)	71–80 (21.6 – 24.4)
18000 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
24000 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
30000 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
36000 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
42000 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	150
48000 HP with Puron	3/8	250*	250*	250*	250*	230	160	--
60000 HP with Puron	3/8	250*	225*	190	150	110	--	--

* Maximum actual length not to exceed 200 ft (61 m)

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

-- = outside acceptable range

LONG LINE APPLICATIONS

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Heat Pump systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

HP WITH PURON® REFRIGERANT LONG LINE DESCRIPTION ft (m)

Beyond these lengths, long line accessories are required

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8	80 (24.4)	20 (6.1)	80 (24.4)

Note: See Long Line Guideline for details

ACCESSORIES

KIT NUMBER	KIT NAME	24 – 31	36 – 31	48 – 31	60 – 32
KSACY0101AAA	CYCLE PROTECTOR	S	S	S	S
KAFT0101AAA	FREEZE THERMOSTAT*	S	S	S	S
KHALS0401LLS	SOLENOID VALVE	X	X	X	X
KSASH2201BRL	SOUND BLANKET PREMIUM		X		
KSASF0101AAA	SUPPORT FEET	X	X	X	X
KAATD0101TDR	TIME DELAY	S	S	S	S
KSATX0201PUR	TXV	X			
KSATX0301PUR	TXV		X		
KSATX0401PUR	TXV			X	
KSATX0501PUR	TXV				X
KAAWS0101AAA	WINTER START*	S	S	S	S

x = Accessory S = Standard

* Standard with Infinity Control

ACCESSORY THERMOSTATS & CONTROLS

THERMOSTAT / SUBBASE PKG.	DESCRIPTION
TP-PRH01-A	Programmable Thermostat
TP-NRH01-A	Non-programmable Thermostat
TP-PAC01	Performance Series Programmable AC Stat
TP-NAC01	Performance Series Non-programmable AC Stat
TSTATCCSEN01-B	Outdoor Air Temperature Sensor
TSTATXXBBP01	Backplate for Builder's Thermostat
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXBP01	Backplate for Programmable Thermostat
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wires) – 10 Pack

INFINITY* CONTROLS	DESCRIPTION
SYSTXCCUID01-A*	Infinity Control Deluxe 7-Day Programmable (Wall-mounted system control.)
SYSTXCCUIZ01-A*	Infinity Control Deluxe Zoning 7-Day Programmable (Wall-mounted control for a multi-zone system.)
SYSTXCC4ZC01	Infinity 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.)
SYSTXCCSMS01	Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCRRS01	Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCSAM01	Infinity System Access Module (Hardware for wireless access and control via phone or internet.)
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)
SYSTXXBPU01	Decorative Back Plate for Infinity Control (Decorative wall plate.)

* These Infinity series units must use "-A" revision or later to operate properly.

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F/12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS*	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km)
Compressor Crankcase Heater	Standard	Standard	Standard
Evaporator Freeze Thermostat	Standard with Infinity Control (Low Ambient not allowed with non-com-municating thermostat)	No	No
Winter Start Control	Standard with Infinity Control (Low Ambient not allowed with non-com-municating thermostat)	No	No
Accumulator	Standard	Standard	Standard
Compressor Start Assist Capacitor and Relay	Standard	Standard	Standard
Low-Ambient Control	Standard with Infinity Control (Low Ambient not allowed with non-com-municating thermostat)	No	No
Support Feet	Recommended	No	Recommended
Liquid-Line Solenoid Valve	No	Yes	No
Puron Balance Port Hard Shut-Off TXV	Yes†	Yes†	Yes†
Ball-Bearing Fan Motor	Standard	Standard	Standard

* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Split-System Longline Application Guideline.

† Required on all indoor units. Standard on all new Puron® refrigerant fan coils and furnace coils.

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Sound Hood

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

Usage Guideline:

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

Suggested when unit is installed between two houses less than 10 ft (3.0 m) apart.

2. 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:

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

3. 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.

4. 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 designed with Puron refrigerant.

ELECTRICAL DATA

UNIT SIZE	V-PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH ft (m)‡	MAX LENGTH ft (m)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA			60° C	75° C	60° C	75° C	
24-31	208/230-1	187	253	65.0	12.3	0.5	15.9	14	14	49 (14.9)	47 (14.3)	25
36-31				72.0	16.5	0.7	21.3	12	12	59 (18.0)	56 (17.1)	30
48-31				105.0	23.4	1.1	30.4	8	10	102 (31.1)	62 (18.9)	50
60-32				130.0	25.6	1.3	33.3	8	10	93 (28.3)	57 (17.4)	50

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

† If wire is applied at ambient greater than 30°C, consult table 310-16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75°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 (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.

Complies with 2007 requirements of ASHRAE Standards 90.1

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A-WEIGHTED SOUND LEVEL (dBA)

UNIT SIZE - VOLTAGE, SERIES	STANDARD RATING dBA	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24-31	71-low stage	57.5	61.5	65.5	65	63.5	59.5	49.5
	72-high stage	60.5	62.5	67.5	66.0	64.0	58.0	49.0
36-31	71-low stage	61.0	62.5	64.5	64.0	62.5	58.0	48.0
	73-high stage	58.0	65.0	63.5	66.0	63.5	60.0	49.5
48-31	71-low stage	56.5	57.0	63.0	64.0	64.0	61.0	53.0
	74-high stage	61.5	60.0	66.5	67.0	65.5	63.5	53.5
60-32	76-low stage	67.5	70.0	69.5	66.5	66.0	61.0	53.5
	76-high stage	64.0	70.0	69.0	66.5	66.0	63.5	55.5

NOTE: Tested in compliance with ARI 270-95 but not listed with AHRI.

A-WEIGHTED SOUND LEVEL (dBA) with PREMIUM ACCESSORY SOUND BLANKET

UNIT SIZE - VOLTAGE, SERIES	STANDARD RATING dBA	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
36-31	*70-low stage	60	62	63.5	62.5	62.5	58.5	48.5
	72-high stage	59	62.0	63.5	64.0	64.0	60.5	50.0

* Low stage tested at 82°F outdoor temperature.

NOTE: Tested in compliance with ARI 270-95 but not listed with AHRI.

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE	REQUIRED SUBCOOLING °F (°C)
24-31	13 (7.2) HIGH STAGE
36-31	15 (8.3) HIGH STAGE
48-31	15 (8.3) HIGH STAGE
60-32	14 (7.8) HIGH STAGE

DIMENSIONS - ENGLISH

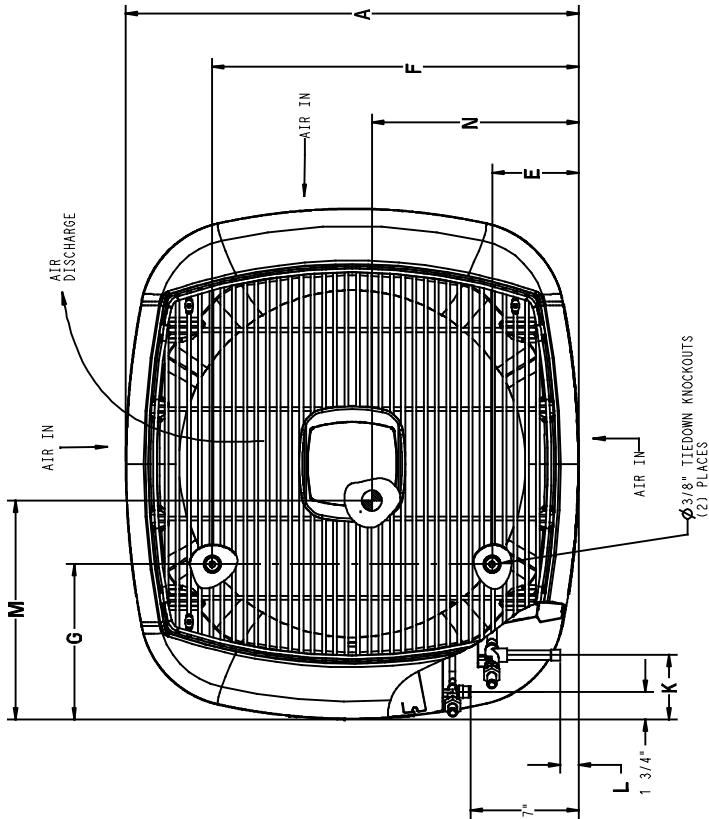
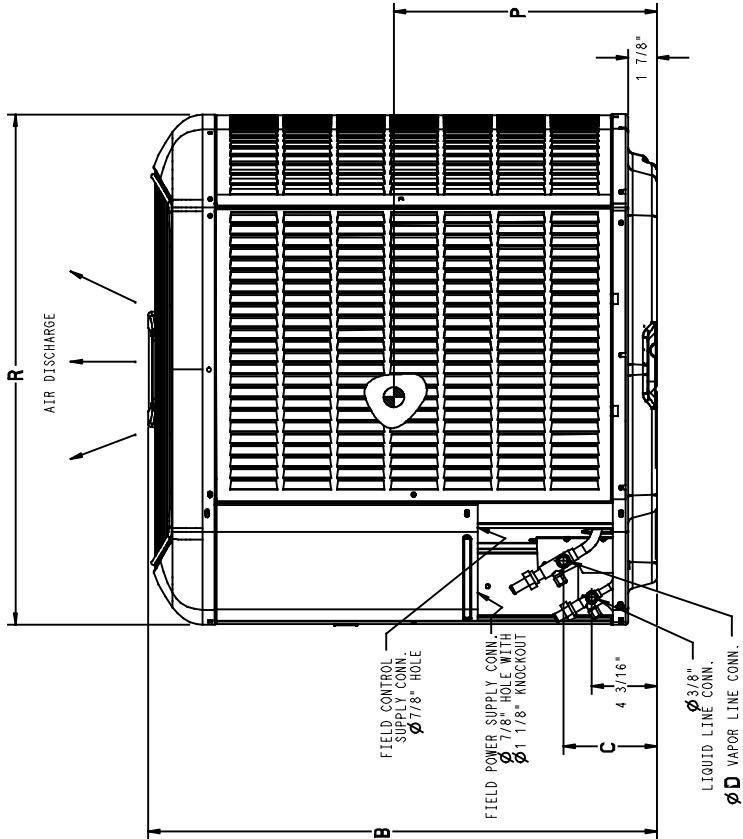
UNIT	SERIES	ELECTRICAL CHARACTERISTICS		A	B	C	D	E	F	G	K	L	M	N	P	R	OPERATING WEIGHT (lbs)	SHIPPING WEIGHT (lbs)	SHIPPING DIMENSIONS (L x W x H)	
25HNA624	1	X	0	0	35 1/2"	40 1/2"	6 1/16"	5/8"	6 13/16"	28 3/4"	11 5/8"	4 3/16"	1 1/8"	20 3/4"	17"	17 3/4"	283	319	37 1/8" X 43 5/16" X 46 3/16"	
25HNA636	1	X	0	0	35 1/2"	37 1/8"	6 5/16"	3/4"	6 13/16"	28 3/4"	11 5/8"	4"	1 1/8"	19 1/2"	16 1/2"	15 3/4"	310	345	37 1/8" X 43 5/16" X 42 3/4"	
25HNA648	1	X	0	0	35 1/2"	47 5/16"	6 1/4"	7/8"	6 13/16"	28 3/4"	11 5/8"	4 1/16"	1 1/8"	19 1/2"	16 1/4"	19 1/4"	357	394	37 1/8" X 43 5/16" X 50 13/16"	
25HNA660	1, 2	X	0	0	35 1/2"	47 5/16"	6 1/4"	7/8"	6 13/16"	28 3/4"	11 5/8"	4 1/16"	1 1/8"	19"	17 1/4"	40"	393	430	37 1/8" X 43 5/16" X 50 13/16"	

NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
3. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY
5. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

X = YES
O = NO

208/230-160	230-160	208/230-3-60	460-3-60
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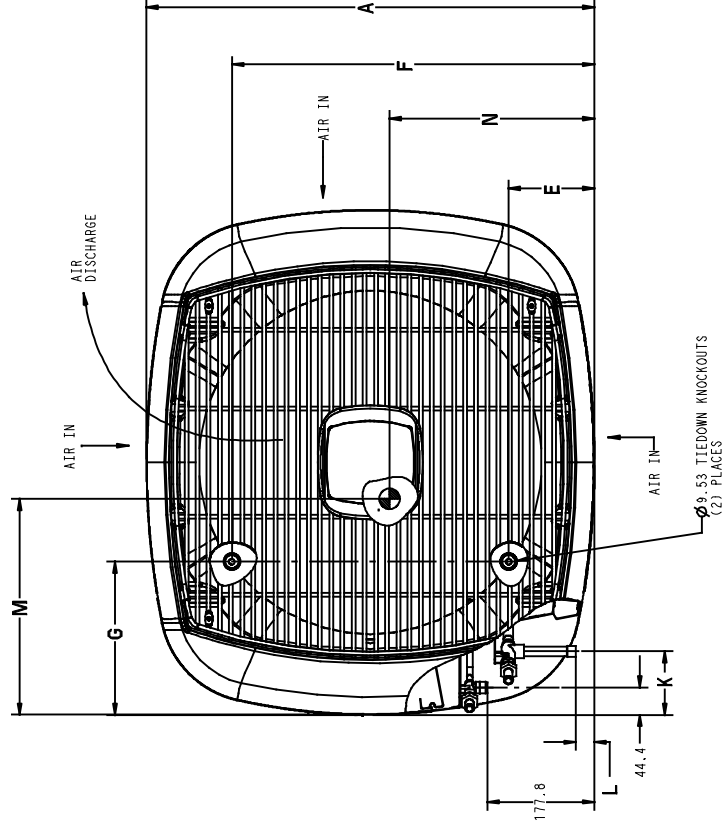
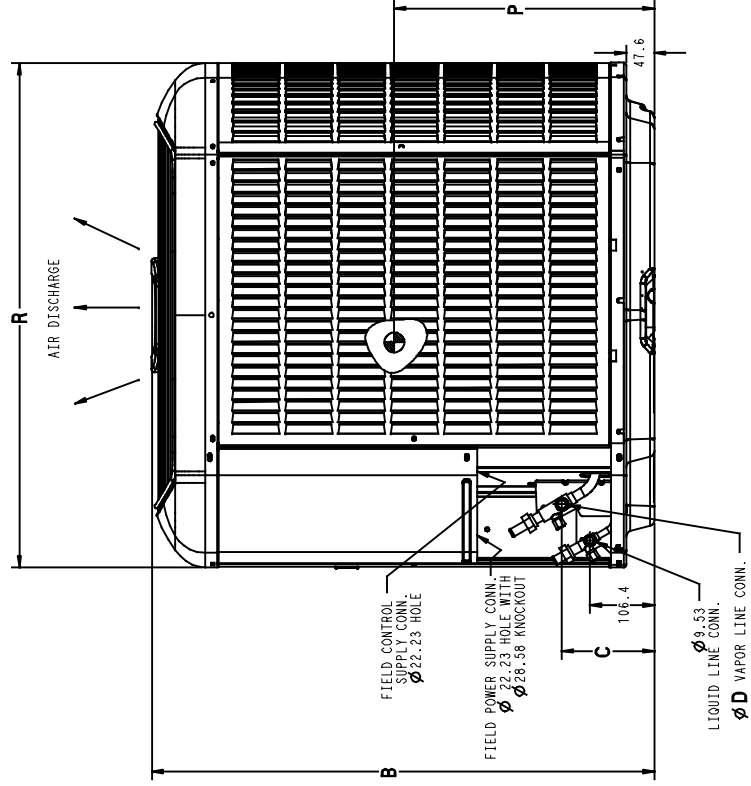
UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
-	29 1/2" X 33"
24.36, 48.60	36 1/2" X 40"

DIMENSIONS - SI

[illegible]

NOTES:

1. ALLOW 762.0 CLEARANCE TO SERVICE SIDE OF UNIT.
1219.2 ABOVE UNIT, 1152.4 ON ONE SIDE, 304.8 ON REMAINING SIDE,
AND 609.6 BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING
MODE IS 13°C. MAX. 52°C.
3. SERIES DESIGNATION IS THE 10TH POSITION OF THE
UNIT MODEL NUMBER.
4. CENTER OF GRAVITY .
5. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

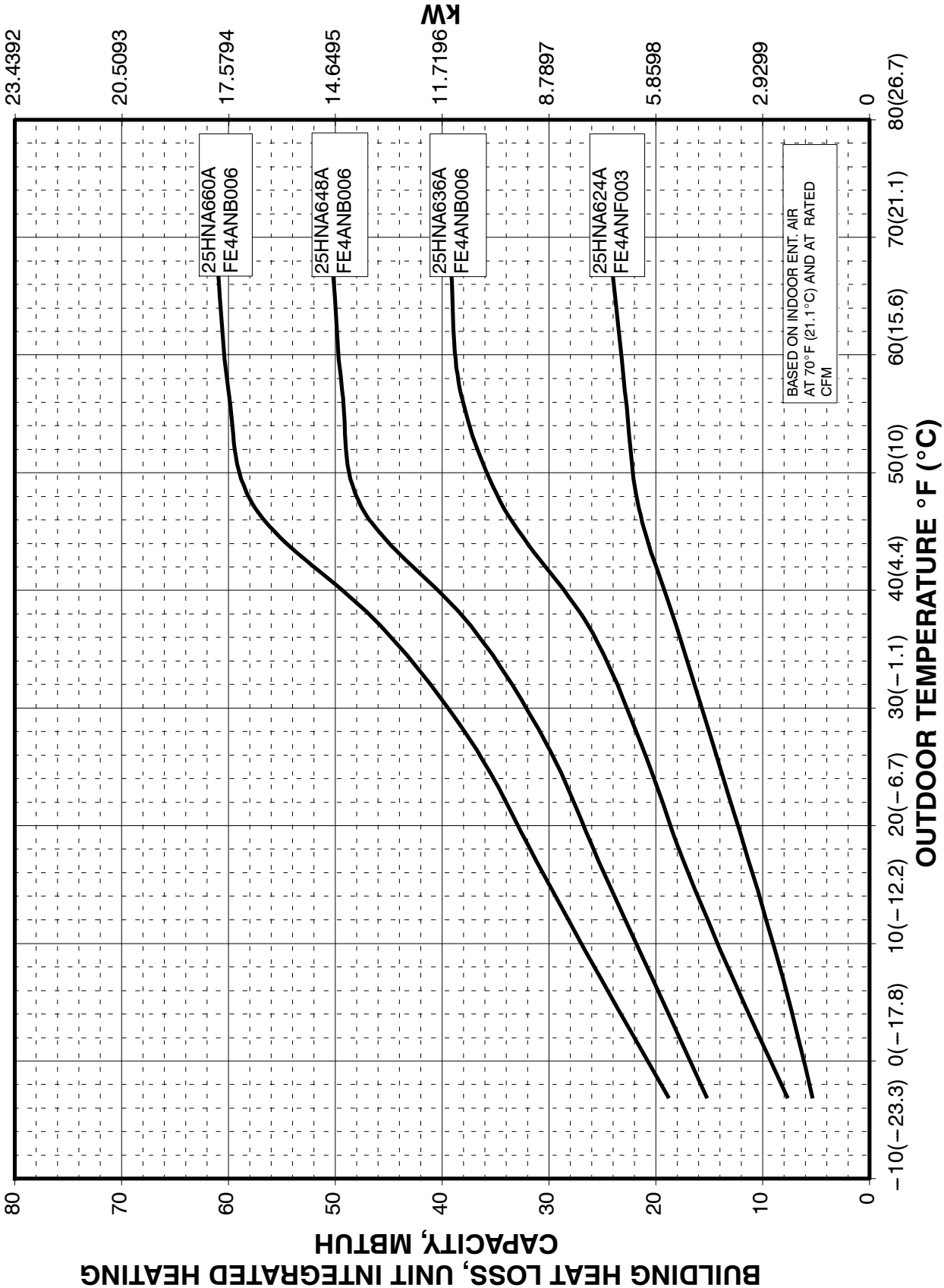


UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
-	749.3 X 838.2
24,36,48,60	927.1 X 1016.0

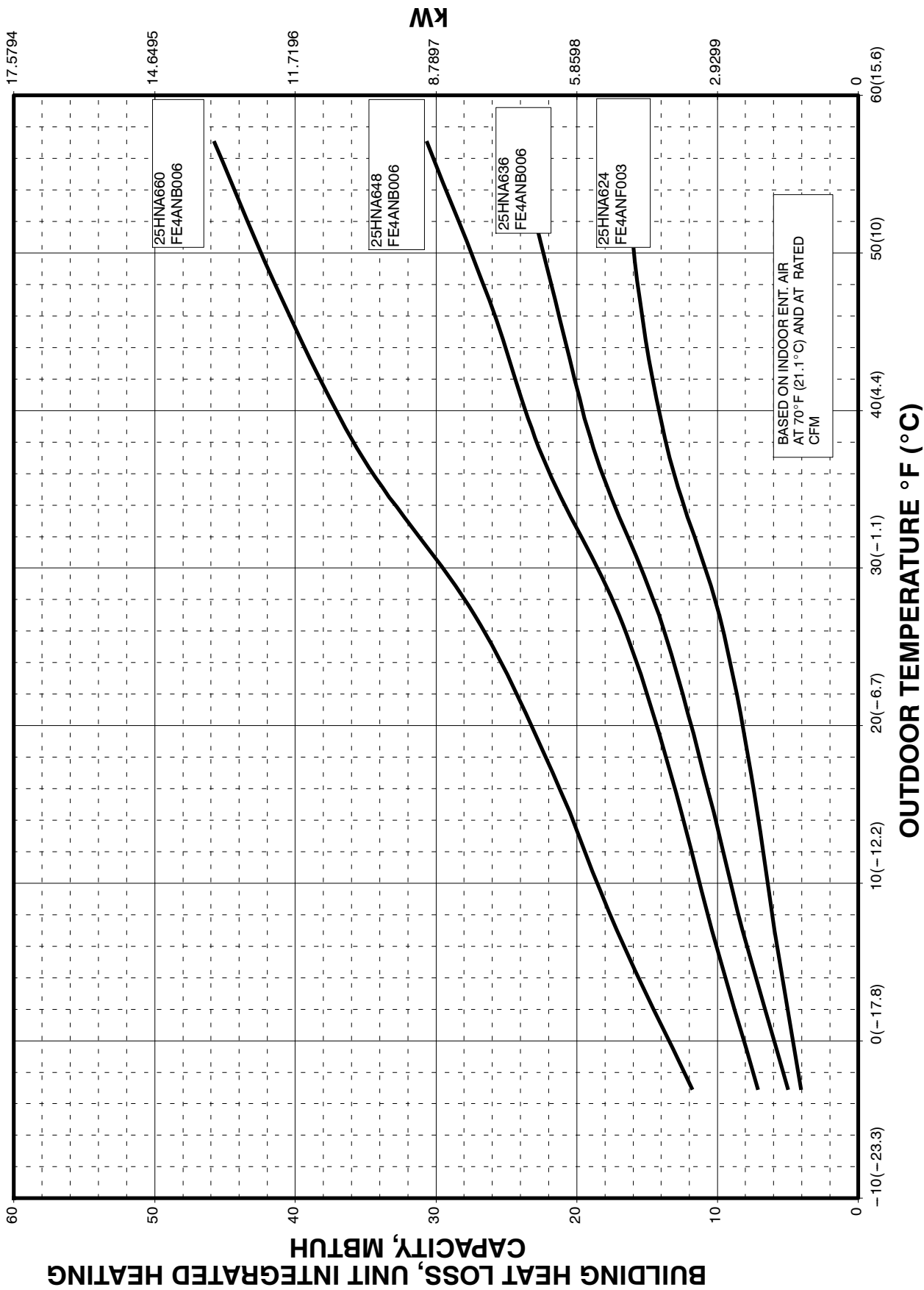
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25HNA6

25HNA6 BALANCE POINT WORKSHEET - HIGH STAGE



25HNA6 BALANCE POINT WORKSHEET - LOW STAGE



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COMBINATION RATINGS

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		Cooling				ARI Standard Ratings								Heating				Furnace Model
				SEER	EER	ID CFM		High Temp				Low Temp				HSPF				
		Capacity						COP		Capacity		COP								
		High	Low			High	Low	High	Low	High	Low	High	Low	High	Low					
24–31	*FE4ANF003	24,000	14,400	15.0	11.4	700	490	21,600	13,400	3.38	3.48	12,400	6,500	2.40	1.92	8.5				
	FE4ANF002	23,800	14,400	14.5	11.2	700	490	22,000	13,400	3.40	3.48	12,500	6,500	2.40	1.92	8.4				
	FV4BNF002	24,000	14,200	14.5	11.3	735	440	21,400	13,200	3.38	3.36	12,600	6,400	2.40	1.88	8.3				
	FV4BNF003	24,000	14,200	14.8	11.5	735	440	21,200	13,000	3.36	3.36	12,500	6,300	2.42	1.88	8.3				
	CAP**2414A**	23,200	14,400	14.0	10.9	700	525	24,000	13,400	3.46	3.38	12,200	6,500	2.32	1.90	8.0	56CV(A,X)070–12			
	CAP**2417A**	23,400	14,400	14.5	11.0	700	525	24,000	13,400	3.48	3.40	12,200	6,500	2.32	1.90	8.1	58MB060–14			
	CAP**2417A**	23,400	14,400	14.5	11.1	700	525	24,000	13,400	3.50	3.42	12,200	6,600	2.34	1.90	8.1	56CV(A,X)090–16			
	CAP**3014A**	23,600	14,400	14.5	11.0	700	525	23,000	13,400	3.36	3.42	12,300	6,600	2.32	1.90	8.1	56CV(A,X)070–12			
	CAP**3017A**	23,600	14,400	14.5	11.1	700	525	22,800	13,600	3.36	3.44	12,200	6,600	2.34	1.90	8.2	58MB060–14			
	CAP**3017A**	23,600	14,400	14.5	11.2	700	525	22,800	13,600	3.38	3.46	12,200	6,600	2.36	1.92	8.2	56CV(A,X)090–16			
	CAP**3614A**	23,800	14,400	14.5	11.1	700	525	21,800	13,600	3.32	3.48	12,300	6,600	2.36	1.92	8.3	58MB060–14			
	CAP**3614A**	23,800	14,400	14.5	11.2	700	525	21,600	13,600	3.34	3.50	12,300	6,600	2.36	1.92	8.3	56CV(A,X)090–16			
	CAP**3617A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.34	3.48	12,300	6,600	2.36	1.92	8.4	58MB060–14			
	CAP**3617A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.32	3.50	12,400	6,600	2.36	1.92	8.4	58MB060–14			
	CAP**3617A**	23,600	14,400	14.5	11.1	700	525	21,800	13,600	3.32	3.46	12,300	6,600	2.34	1.90	8.3	56CV(A,X)070–12			
	CAP**3617A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.34	3.50	12,300	6,600	2.36	1.92	8.4	56CV(A,X)090–16			
	CAP**3621A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.32	3.48	12,300	6,600	2.36	1.92	8.4	58MB040–14			
	CAP**3621A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.34	3.50	12,300	6,500	2.36	1.92	8.4	58MB060–14			
	CAP**3621A**	23,800	14,600	14.5	11.2	700	525	21,600	13,600	3.32	3.50	12,300	6,600	2.36	1.92	8.4	58MB060–14			
	CAP**3621A**	23,400	14,400	14.0	10.9	700	525	24,000	13,600	3.50	3.44	12,400	6,600	2.38	1.92	8.2	56CV(A,X)090–16			
	CNPH*2417A**	23,200	14,400	14.0	10.9	700	525	24,000	13,600	3.52	3.44	12,400	6,600	2.34	1.90	8.2	58MB060–14			
	CNPH*2417A**	23,400	14,400	14.0	10.9	700	525	24,000	13,600	3.50	3.46	12,400	6,600	2.34	1.90	8.2	58MB060–14			
	CNPH*2417A**	23,200	14,400	14.0	10.9	700	525	24,000	13,600	3.52	3.44	12,400	6,600	2.34	1.90	8.1	56CV(A,X)070–12			
	CNPH*2417A**	23,400	14,400	14.0	11.0	700	525	24,000	13,600	3.52	3.46	12,400	6,600	2.36	1.92	8.2	56CV(A,X)090–16			
	CNPH*3017A**	23,800	14,400	14.5	11.1	700	525	22,400	13,600	3.34	3.44	12,300	6,600	2.34	1.90	8.3	58MB040–14			
	CNPH*3017A**	23,600	14,400	14.5	11.1	700	525	22,400	13,600	3.36	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14			
	CNPH*3017A**	23,800	14,600	14.5	11.1	700	525	22,400	13,600	3.34	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14			
	CNPH*3017A**	23,600	14,400	14.5	11.1	700	525	22,800	13,600	3.36	3.44	12,300	6,600	2.34	1.90	8.2	56CV(A,X)070–12			
	CNPH*3017A**	23,800	14,600	14.5	11.2	700	525	22,400	13,600	3.36	3.48	12,300	6,600	2.36	1.92	8.3	56CV(A,X)090–16			
	CNPH*3617A**	23,800	14,400	14.5	11.1	700	525	22,400	13,600	3.34	3.44	12,300	6,600	2.34	1.90	8.3	58MB040–14			
	CNPH*3617A**	23,600	14,400	14.5	11.1	700	525	22,400	13,600	3.36	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14			
	CNPV*2414A**	23,200	14,400	14.0	10.9	700	525	24,000	13,600	3.52	3.44	12,400	6,600	2.34	1.90	8.1	56CV(A,X)070–12			
CNPV*2417A**	23,400	14,400	14.0	10.9	700	525	24,000	13,600	3.52	3.44	12,400	6,600	2.34	1.90	8.2	56CV(A,X)090–16				
CNPV*2417A**	23,000	14,200	14.0	11.0	700	525	24,000	13,600	3.52	3.46	12,400	6,600	2.36	1.92	8.2	56CV(A,X)090–16				
CNPV*2417A**	23,400	14,400	14.0	10.7	700	385	24,000	13,400	3.54	3.36	12,300	6,500	2.32	1.88	7.8	58VMR105–12				
CNPV*2417A**	23,400	14,600	14.5	10.9	700	385	24,000	13,600	3.54	3.54	12,400	6,600	2.36	1.94	8.1	56VLR105–12				
CNPV*3014A**	23,600	14,400	14.5	11.0	700	525	22,600	13,600	3.34	3.44	12,300	6,600	2.34	1.90	8.1	56CV(A,X)070–12				
CNPV*3017A**	23,600	14,400	14.5	11.1	700	525	22,400	13,600	3.36	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14				
CNPV*3017A**	23,800	14,600	14.5	11.1	700	525	22,400	13,600	3.36	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14				
CNPV*3617A**	23,600	14,400	14.5	11.1	700	525	22,600	13,600	3.36	3.44	12,300	6,600	2.34	1.90	8.2	56CV(A,X)070–12				
CNPV*3617A**	23,800	14,600	14.5	11.2	700	525	22,400	13,600	3.36	3.48	12,300	6,600	2.36	1.92	8.3	56CV(A,X)090–16				
CNPV*3017A**	23,400	14,400	14.0	11.0	700	385	23,200	13,400	3.38	3.36	12,100	6,500	2.32	1.88	7.8	58VMR105–12				
CNPV*3017A**	23,800	14,800	14.5	11.2	700	385	22,400	13,600	3.36	3.56	12,300	6,600	2.36	1.96	8.3	56VLR105–12				
CNPV*3617A**	23,600	14,400	14.5	11.1	700	525	22,400	13,600	3.36	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14				
CNPV*3617A**	23,800	14,600	14.5	11.1	700	525	22,400	13,600	3.34	3.46	12,300	6,600	2.34	1.92	8.3	58MB060–14				
CNPV*3617A**	23,600	14,400	14.5	11.1	700	525	22,600	13,600	3.36	3.44	12,300	6,600	2.34	1.90	8.2	56CV(A,X)070–12				
CNPV*3617A**	23,800	14,600	14.5	11.2	700	525	22,400	13,600	3.36	3.48	12,300	6,600	2.36	1.92	8.3	56CV(A,X)090–16				

COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		ARI Standard Ratings										Furnace Model		
				Cooling				Heating								
		SEER	EER	ID CFM		Capacity		High Temp		COP		Low Temp			HSPF	
				High	Low	High	Low	High	Low	High	Low	High	Low			
24–31	CNPV*3617A**	23,400	14,400	14.0	11.1	700	385	23,200	13,400	3.38	3.36	12,100	6,500	2.32	1.88	58VMR105–12
	CNPV*3617A**	23,800	14,800	14.5	11.2	700	385	22,400	13,600	3.36	3.56	12,300	6,600	2.36	1.96	58VLR105–12
	CNPV*3621A**	23,800	14,400	14.5	11.1	700	525	22,400	13,600	3.34	3.46	12,300	6,600	2.34	1.90	58MB040–14
	CNPV*3621A**	23,600	14,400	14.5	11.1	700	525	22,400	13,600	3.34	3.46	12,300	6,600	2.34	1.92	58MB060–14
	CNPV*3621A**	23,800	14,600	14.5	11.1	700	525	22,400	13,600	3.34	3.46	12,300	6,600	2.34	1.92	58MB080–14
	CNPV*3621A**	23,800	14,600	14.5	11.2	700	525	22,400	13,600	3.36	3.48	12,300	6,600	2.36	1.92	58CV(A,X)090–16
	CNPV*3621A**	23,400	14,400	14.0	11.1	700	385	23,200	13,400	3.38	3.36	12,100	6,500	2.32	1.88	58VMR105–12
	CNPV*3621A**	23,800	14,800	14.5	11.2	700	385	22,400	13,600	3.36	3.56	12,300	6,600	2.36	1.96	58VLR105–12
	CSPH*2412A**	23,600	14,400	14.0	11.0	700	525	23,800	13,600	3.44	3.44	12,500	6,600	2.34	1.90	58MB040–14
	CSPH*2412A**	23,600	14,400	14.5	11.0	700	525	23,800	13,600	3.46	3.44	12,400	6,600	2.34	1.90	58MB060–14
	CSPH*2412A**	23,600	14,400	14.5	11.0	700	525	23,600	13,600	3.46	3.44	12,500	6,600	2.34	1.90	58MB080–14
	CSPH*2412A**	23,600	14,400	14.0	11.0	700	525	24,000	13,600	3.46	3.42	12,400	6,600	2.34	1.90	58CV(A,X)070–12
	CSPH*2412A**	23,600	14,400	14.5	11.1	700	525	23,800	13,600	3.46	3.46	12,400	6,600	2.36	1.90	58CV(A,X)090–16
	CSPH*3012A**	23,800	14,400	14.5	11.1	700	525	21,800	13,600	3.30	3.44	12,400	6,600	2.34	1.90	58MB040–14
	CSPH*3012A**	23,800	14,400	14.5	11.1	700	525	21,800	13,600	3.32	3.44	12,300	6,600	2.34	1.90	58MB060–14
	CSPH*3012A**	23,800	14,600	14.5	11.1	700	525	21,800	13,600	3.30	3.46	12,400	6,600	2.34	1.90	58MB080–14
	CSPH*3012A**	23,800	14,400	14.5	11.1	700	525	22,000	13,600	3.32	3.42	12,300	6,600	2.34	1.90	58CV(A,X)070–12
	CSPH*3612A**	23,800	14,600	14.5	11.2	700	525	21,800	13,600	3.32	3.46	12,300	6,600	2.36	1.90	58CV(A,X)090–16
36–31	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,200	13,800	3.22	3.54	12,500	6,600	2.40	1.92	58MB040–14
	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,400	13,800	3.24	3.54	12,500	6,600	2.40	1.92	58MB060–14
	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,200	13,800	3.22	3.54	12,500	6,600	2.40	1.92	58MB080–14
	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,200	13,800	3.22	3.54	12,500	6,600	2.40	1.92	58MB080–14
	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,600	13,800	3.24	3.52	12,500	6,600	2.38	1.92	58CV(A,X)070–12
	CSPH*3612A**	24,000	14,600	14.5	11.3	700	525	19,400	13,800	3.24	3.56	12,500	6,600	2.40	1.92	58CV(A,X)090–16
	*FE4ANB006	35,800	20,800	16.5	12.6	1050	735	34,200	18,600	3.90	3.84	19,100	9,000	2.66	2.06	58CV(A,X)090–16
	FE4ANF002	33,600	19,800	15.0	11.5	1050	735	33,000	18,200	3.54	3.60	18,900	9,000	2.50	1.98	58CV(A,X)070–12
	FE4ANF003	34,000	20,000	15.5	11.9	1050	735	32,600	18,000	3.58	3.62	18,600	8,800	2.54	1.98	58CV(A,X)110–20
	FE4ANF005	35,400	20,600	16.2	12.4	1050	735	33,800	18,400	3.78	3.76	19,000	9,000	2.62	2.04	58MB080–14
	FESANB004	35,800	20,800	16.6	12.6	1050	735	34,400	18,600	3.92	3.84	19,100	9,000	2.66	2.06	58MB060–14
	FV4BNB006	36,000	20,400	16.0	12.6	1100	660	34,400	18,000	3.92	3.70	19,200	8,700	2.68	2.00	58MB080–14
	FV4BNF002	33,800	19,600	15.0	11.4	1100	660	33,400	17,600	3.54	3.50	19,100	8,700	2.50	1.94	58CV(A,X)070–12
	FV4BNF003	34,200	19,600	15.0	11.9	1100	660	32,800	17,600	3.60	3.52	18,800	8,600	2.54	1.94	58CV(A,X)090–16
	FV4BNF005	35,600	20,200	16.0	12.4	1100	660	34,200	18,000	3.82	3.64	19,200	8,700	2.62	1.98	58CV(A,X)070–12
	CAP**3614A**	33,400	19,600	14.5	11.4	1050	700	32,800	17,800	3.46	3.48	18,900	8,700	2.48	1.92	58CV(A,X)110–20
	CAP**3614A**	33,400	19,600	13.0	10.8	1050	700	33,600	19,200	3.38	3.40	19,700	9,900	2.42	1.90	58CV(A,X)070–12
	CAP**3617A**	33,600	19,600	15.0	11.7	1050	700	32,600	17,800	3.52	3.52	18,600	8,700	2.50	1.94	58CV(A,X)090–16
CAP**3617A**	33,600	19,800	15.0	11.6	1050	700	32,600	17,800	3.50	3.50	18,700	8,700	2.50	1.94	58MB060–14	
CAP**3617A**	33,800	19,800	13.0	10.7	1200	900	34,200	19,600	3.42	3.44	20,000	10,100	2.42	1.90	58CV(A,X)110–20	
CAP**3621A**	33,800	19,800	13.0	10.7	1200	900	34,200	19,600	3.42	3.44	20,000	10,100	2.42	1.90	58CV(A,X)110–20	
CAP**3621A**	33,800	19,800	15.0	11.7	1050	700	32,600	17,800	3.54	3.54	18,600	8,700	2.52	1.96	58MB080–14	
CAP**3621A**	33,400	19,800	15.0	11.4	1050	700	32,600	17,800	3.46	3.52	18,600	8,700	2.48	1.94	58MB080–14	
CAP**3621A**	33,600	19,600	15.0	11.6	1050	700	32,600	17,800	3.50	3.50	18,700	8,700	2.50	1.94	58MB080–20	
CAP**3621A**	33,600	19,800	15.0	11.6	1050	700	32,600	17,800	3.52	3.52	18,700	8,800	2.50	1.94	58MB100–20	
CAP**3621A**	33,800	19,800	13.0	10.7	1200	900	34,200	19,600	3.42	3.44	20,000	10,100	2.42	1.90	58CV(A,X)110–20	
CAP**4221A**	34,000	19,800	15.0	11.8	1050	700	32,800	17,800	3.56	3.56	18,700	8,800	2.54	1.96	58CV(A,X)110–20	
CAP**4221A**	33,800	19,800	15.0	11.5	1050	700	32,800	17,800	3.50	3.54	18,900	8,800	2.50	1.96	58MB060–14	
CAP**4221A**	33,800	19,800	15.0	11.6	1050	700	32,800	17,800	3.54	3.54	18,800	8,800	2.52	1.96	58MB080–14	
CAP**4221A**	34,000	19,900	15.0	11.7	1050	700	32,800	18,000	3.54	3.56	18,800	8,800	2.52	1.96	58MB080–20	
CAP**4221A**	34,200	20,000	13.0	10.8	1200	900	34,400	19,600	3.46	3.46	20,200	10,200	2.44	1.92	58CV(A,X)135–22	
CAP**4224A**	34,000	19,800	15.5	11.9	1050	700	32,600	17,800	3.58	3.56	18,600	8,700	2.54	1.96	58CV(A,X)155–22	
CAP**4224A**	34,200	19,800	15.0	12.0	1050	700	32,600	17,800	3.62	3.56	18,600	8,700	2.56	1.96	58CV(A,X)155–22	
CAP**4224A**	33,800	19,800	15.0	11.6	1050	700	32,800	17,800	3.52	3.54	18,800	8,800	2.50	1.96	58MB040–14	

See notes on page 18

COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		ARI Standard Ratings										Furnace Model			
				Cooling			Heating										
				SEER	EER	ID CFM		High Temp		Low Temp		HSPF					
						High	Low	Capacity	COP	Capacity	COP						
	CAP**4224A**	34,000	19,800	15.0	11.8	1050	700	32,600	17,800	3.56	3.52	18,700	8,700	2.52	1.94	8.5	58MBV120–20
	CAP**4224A**	34,200	20,000	13.0	10.8	1200	900	34,400	19,600	3.40	3.46	20,200	10,200	2.44	1.92	8.3	
	CAP**4817A**	34,600	20,000	15.0	11.8	1050	700	33,800	18,000	3.66	3.60	19,200	8,900	2.56	1.98	8.6	58CV(A,X)070–12
	CAP**4817A**	34,800	20,200	15.5	12.0	1050	700	33,800	18,200	3.70	3.64	19,100	8,900	2.58	1.98	8.7	58CV(A,X)090–16
	CAP**4817A**	35,000	20,200	15.5	12.0	1050	700	33,800	18,200	3.72	3.64	19,100	8,900	2.58	1.98	8.7	58CV(A,X)110–20
	CAP**4817A**	34,800	20,200	15.5	11.9	1050	700	33,800	18,200	3.68	3.62	19,100	8,900	2.56	1.98	8.6	58MBV060–14
	CAP**4817A**	34,600	20,200	15.0	11.7	1050	700	33,800	18,200	3.64	3.62	19,300	8,900	2.54	1.98	8.6	58MBV080–14
	CAP**4817A**	34,800	20,200	15.5	11.9	1050	700	33,800	18,300	3.68	3.64	19,200	8,900	2.56	1.98	8.7	58MBV080–20
	CAP**4817A**	35,200	20,400	13.5	11.1	1200	900	35,800	20,000	3.64	3.58	20,400	10,300	2.48	1.96	8.6	
	CAP**4821A**	34,600	20,000	15.5	12.0	1050	700	33,200	18,000	3.66	3.62	18,900	8,800	2.58	1.98	8.6	58CV(A,X)090–16
	CAP**4821A**	34,600	20,000	15.5	12.1	1050	700	33,200	18,000	3.68	3.62	18,900	8,800	2.58	1.98	8.6	58CV(A,X)110–20
	CAP**4821A**	34,800	20,000	15.5	11.9	1050	700	33,400	18,000	3.64	3.60	19,100	8,800	2.54	1.98	8.6	58MBV040–14
	CAP**4821A**	34,400	20,000	15.0	11.7	1050	700	33,400	18,000	3.60	3.60	19,100	8,900	2.54	1.98	8.6	58MBV080–14
	CAP**4821A**	34,400	20,000	15.0	11.8	1050	700	33,400	18,000	3.62	3.60	19,000	8,800	2.56	1.98	8.6	58MBV080–20
	CAP**4821A**	34,600	20,000	15.5	11.9	1050	700	33,200	18,000	3.64	3.62	18,900	8,800	2.56	1.98	8.6	58MBV100–20
	CAP**4824A**	34,600	20,000	15.5	12.0	1050	700	33,400	18,000	3.66	3.62	19,000	8,800	2.58	1.98	8.6	58CV(A,X)110–20
	CAP**4824A**	34,600	20,000	15.5	12.1	1050	700	33,200	18,000	3.68	3.62	18,900	8,800	2.58	1.98	8.7	58CV(A,X)135–22
	CAP**4824A**	34,800	20,000	15.5	12.2	1050	700	33,200	18,000	3.70	3.62	18,800	8,800	2.60	1.98	8.7	58CV(A,X)155–22
	CAP**4824A**	34,400	20,000	15.0	11.7	1050	700	33,400	18,000	3.60	3.60	19,100	8,900	2.54	1.98	8.6	58MBV040–14
	CAP**4824A**	34,400	20,000	15.0	11.7	1050	700	33,400	18,000	3.60	3.60	19,100	8,900	2.54	1.98	8.6	58MBV080–14
	CAP**4824A**	34,400	20,000	15.0	11.8	1050	700	33,400	18,000	3.62	3.58	19,000	8,800	2.56	1.98	8.6	58MBV080–20
	CAP**4824A**	34,600	20,000	15.5	11.9	1050	700	33,400	18,000	3.64	3.62	19,000	8,800	2.56	1.98	8.6	58MBV100–20
	CAP**4824A**	34,400	20,000	15.0	11.9	1050	700	33,200	18,000	3.64	3.58	18,900	8,800	2.56	1.98	8.6	58MBV120–20
	CAP**4824A**	34,800	20,200	13.5	11.0	1200	900	35,200	19,800	3.56	3.54	20,400	10,300	2.46	1.94	8.5	
	CNPF*3618A**	33,800	19,800	13.0	10.7	1200	900	34,000	19,400	3.40	3.44	20,000	10,100	2.42	1.90	8.3	
	CNPF*4818A**	34,600	20,200	13.5	10.9	1200	900	34,800	19,800	3.50	3.52	20,200	10,300	2.46	1.94	8.4	
	CNPH*3617A**	33,400	19,600	14.5	11.4	1050	700	32,600	17,800	3.44	3.48	18,800	8,700	2.46	1.92	8.3	58CV(A,X)070–12
	CNPH*3617A**	33,600	19,600	15.0	11.6	1050	700	32,400	17,800	3.48	3.50	18,700	8,700	2.50	1.94	8.5	58CV(A,X)090–16
	CNPH*3617A**	33,600	19,600	15.0	11.6	1050	700	32,600	17,800	3.50	3.50	18,700	8,700	2.50	1.94	8.4	58CV(A,X)110–20
	CNPH*3617A**	33,600	19,600	15.0	11.6	1050	700	32,400	17,800	3.52	3.52	18,600	8,700	2.50	1.94	8.5	58CV(A,X)135–22
	CNPH*3617A**	33,600	19,600	15.0	11.7	1050	700	32,400	17,800	3.52	3.52	18,600	8,700	2.52	1.94	8.5	58CV(A,X)155–22
	CNPH*3617A**	33,400	19,600	14.5	11.3	1050	700	32,600	17,800	3.44	3.50	18,800	8,800	2.46	1.94	8.3	58MBV040–14
	CNPH*3617A**	33,400	19,600	15.0	11.5	1050	700	32,600	17,800	3.46	3.48	18,700	8,700	2.48	1.94	8.4	58MBV060–14
	CNPH*3617A**	33,400	19,600	14.5	11.3	1050	700	32,600	17,800	3.42	3.50	18,800	8,800	2.46	1.94	8.3	58MBV080–14
	CNPH*3617A**	33,400	19,600	15.0	11.4	1050	700	32,600	17,800	3.46	3.50	18,800	8,700	2.48	1.94	8.4	58MBV080–20
	CNPH*3617A**	33,600	19,600	15.0	11.5	1050	700	32,600	17,800	3.48	3.50	18,700	8,800	2.48	1.94	8.4	58MBV100–20
	CNPH*3617A**	33,400	19,600	15.0	11.5	1050	700	32,400	17,800	3.48	3.48	18,700	8,700	2.48	1.92	8.5	58MBV120–20
	CNPH*3617A**	33,800	19,800	13.0	10.7	1200	900	34,000	19,400	3.40	3.44	20,000	10,100	2.42	1.90	8.3	
	CNPH*4221A**	34,000	19,800	15.0	11.7	1050	700	32,800	17,800	3.56	3.54	18,800	8,700	2.52	1.96	8.5	58CV(A,X)070–12
	CNPH*4221A**	34,200	19,800	15.5	12.0	1050	700	32,600	17,800	3.60	3.58	18,600	8,700	2.56	1.98	8.6	58CV(A,X)090–16
	CNPH*4221A**	34,200	19,800	15.5	12.0	1050	700	32,800	17,800	3.62	3.58	18,600	8,700	2.56	1.96	8.6	58CV(A,X)110–20
	CNPH*4221A**	34,200	19,800	15.5	12.1	1050	700	32,600	17,800	3.62	3.58	18,500	8,700	2.58	1.98	8.6	58CV(A,X)135–22
	CNPH*4221A**	34,200	19,800	15.5	12.2	1050	700	32,600	17,800	3.64	3.58	18,500	8,700	2.58	1.98	8.6	58CV(A,X)155–22
	CNPH*4221A**	34,000	19,800	15.0	11.7	1050	700	32,800	17,800	3.56	3.56	18,700	8,700	2.52	1.98	8.5	58MBV040–14
	CNPH*4221A**	34,000	19,800	15.0	11.9	1050	700	32,600	17,800	3.58	3.56	18,600	8,700	2.54	1.96	8.5	58MBV060–14

COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		ARI Standard Ratings										Furnace Model			
				Cooling			Heating										
				SEER	EER	ID CFM		High Temp		COP		Low Temp				HSPF	
						High	Low	Capacity	High	Low	Capacity	High	Low				
	CNPH*4221A**	34,000	19,800	15.0	11.7	1050	700	32,800	17,800	3.54	3.58	18,700	8,700	2.52	1.96	8.5	58MV/B080–14
	CNPH*4221A**	34,000	19,800	15.0	11.8	1050	700	32,800	17,800	3.56	3.54	18,700	8,800	2.54	1.96	8.5	58MV/B080–20
	CNPH*4221A**	34,000	19,800	15.0	11.9	1050	700	32,800	18,000	3.58	3.56	18,700	8,800	2.54	1.96	8.5	58MV/B100–20
	CNPH*4221A**	34,000	19,800	15.0	12.0	1050	700	32,800	17,800	3.60	3.54	18,600	8,700	2.56	1.96	8.5	58MV/B120–20
	CNPH*4221A**	34,200	20,000	13.0	10.8	1200	900	34,400	19,600	3.46	3.48	20,200	10,200	2.44	1.92	8.4	
	CNPH*4821A**	34,400	20,000	15.0	11.8	1050	700	33,400	18,000	3.62	3.58	19,100	8,800	2.54	1.96	8.6	58CV(A,X)070–12
	CNPH*4821A**	34,600	20,000	15.5	12.0	1050	700	33,200	18,000	3.66	3.62	18,900	8,800	2.58	1.98	8.6	58CV(A,X)090–16
	CNPH*4821A**	34,600	20,200	15.5	12.0	1050	700	33,400	18,000	3.66	3.62	19,000	8,800	2.58	1.98	8.7	58CV(A,X)110–20
	CNPH*4821A**	34,600	20,200	15.5	12.0	1050	700	33,200	18,000	3.68	3.64	18,900	8,800	2.58	1.98	8.7	58CV(A,X)135–22
	CNPH*4821A**	34,800	20,200	15.5	12.2	1050	700	33,200	18,000	3.70	3.64	18,800	8,800	2.60	2.00	8.7	58CV(A,X)155–22
	CNPH*4821A**	34,400	20,000	15.5	11.7	1050	700	33,400	18,000	3.60	3.62	19,100	8,900	2.54	1.98	8.6	58MV/B040–14
	CNPH*4821A**	34,600	20,000	15.5	11.9	1050	700	33,200	18,000	3.64	3.60	19,000	8,800	2.56	1.98	8.6	58MV/B060–14
	CNPH*4821A**	34,600	20,000	15.0	11.7	1050	700	33,400	18,000	3.60	3.60	19,100	8,900	2.54	1.98	8.6	58MV/B080–14
	CNPH*4821A**	34,600	20,000	15.5	11.9	1050	700	33,200	18,000	3.64	3.60	19,000	8,800	2.56	1.98	8.6	58MV/B080–20
	CNPH*4821A**	34,600	20,200	15.5	11.8	1050	700	33,400	18,200	3.64	3.62	19,000	8,900	2.56	1.98	8.6	58MV/B100–20
	CNPH*4821A**	34,600	20,000	15.5	12.0	1050	700	33,200	18,000	3.64	3.58	18,900	8,800	2.56	1.98	8.6	58MV/B120–20
	CNPH*4821A**	34,800	19,800	15.0	11.8	1063	611	33,800	17,600	3.66	3.52	19,300	8,600	2.56	1.94	8.5	58VLR105–12
	CNPH*4821A**	34,600	19,600	15.5	12.1	1005	596	33,200	17,400	3.68	3.50	18,900	8,500	2.58	1.94	8.5	58VLR120–20
	CNPH*4821A**	34,400	19,400	15.0	11.8	976	550	33,200	17,000	3.60	3.40	18,900	8,300	2.54	1.90	8.4	58VNR105–12
	CNPH*4821A**	34,600	19,400	15.0	11.9	999	575	33,200	17,400	3.64	3.42	18,900	8,500	2.56	1.90	8.4	58VNR120–20

36–31

36–31

COMBINATION RATINGS CONTINUED

Unit Size - Voltage, Series	Indoor Model	Cooling Capacity		ARI Standard Ratings										Furnace Model			
				Cooling			Heating										
				SEER	EER	ID CFM		Capacity		High Temp		COP			Low Temp		HSPF
						High	Low	High	Low	High	Low	High	Low		High	Low	
36-31	CNPV*4821A**	34,800	20,200	13.5	11.0	1200	900	35,000	19,800	3.54	3.54	20,400	10,300	2.46	1.94	8.5	58CV(A,X)110-20 58CV(A,X)135-22 58CV(A,X)155-22 58MBV040-14 58MBV080-14 58MBV100-20 58MBV120-20 58VLR120-20 58VMR120-20 58CV(A,X)070-12 58CV(A,X)090-16 58CV(A,X)110-20 58CV(A,X)135-22 58CV(A,X)155-22 58MBV040-14 58MBV080-14 58MBV100-20 58MBV120-20
	CNPV*4824A**	34,600	20,200	15.5	12.0	1050	700	33,400	18,000	3.66	3.62	19,000	8,800	2.58	1.98	8.7	
	CNPV*4824A**	34,600	20,200	15.5	12.1	1050	700	33,200	18,000	3.68	3.64	18,900	8,800	2.58	1.98	8.7	
	CNPV*4824A**	34,800	20,200	15.5	12.2	1050	700	33,200	18,000	3.70	3.64	18,800	8,800	2.60	2.00	8.7	
	CNPV*4824A**	34,400	20,000	15.5	11.8	1050	700	33,400	18,000	3.60	3.62	19,100	8,900	2.54	1.98	8.6	
	CNPV*4824A**	34,400	20,000	15.0	11.7	1050	700	33,400	18,000	3.60	3.60	19,100	8,900	2.54	1.98	8.6	
	CNPV*4824A**	34,600	20,000	15.5	11.8	1050	700	33,400	18,000	3.62	3.60	19,000	8,900	2.56	1.98	8.6	
	CNPV*4824A**	34,600	20,200	15.5	11.9	1050	700	33,400	18,200	3.64	3.62	19,000	8,900	2.56	1.98	8.6	
	CNPV*4824A**	34,600	20,000	15.5	12.0	1050	700	33,200	18,000	3.64	3.58	18,900	8,800	2.56	1.98	8.6	
	CNPV*4824A**	34,600	19,600	15.5	12.1	1005	596	33,200	17,400	3.68	3.50	18,900	8,500	2.58	1.94	8.5	
	CNPV*4824A**	34,600	19,400	15.0	11.9	999	575	33,200	17,400	3.64	3.42	18,900	8,500	2.56	1.90	8.4	
	CNPV*4824A**	34,800	20,200	13.5	11.0	1200	900	35,000	19,800	3.54	3.54	20,400	10,300	2.46	1.94	8.5	
	CSPH*3612A**	34,400	19,800	15.0	11.7	1050	700	33,200	18,000	3.56	3.54	19,100	8,800	2.52	1.96	8.5	
	CSPH*3612A**	34,400	20,000	15.5	11.8	1050	700	33,200	18,000	3.58	3.54	19,000	8,800	2.54	1.96	8.5	
	CSPH*3612A**	34,200	20,000	15.0	11.6	1050	700	33,200	18,000	3.54	3.56	19,100	8,900	2.50	1.96	8.5	
	CSPH*3612A**	34,400	20,000	15.0	11.7	1050	700	33,200	18,000	3.58	3.56	19,000	8,800	2.54	1.96	8.5	
	CSPH*3612A**	34,400	20,000	15.0	11.8	1050	700	33,200	18,000	3.60	3.58	19,000	8,900	2.54	1.96	8.5	
	CSPH*3612A**	34,800	19,800	15.0	11.8	1050	700	33,000	17,000	3.60	3.54	18,900	8,800	2.54	1.96	8.5	
	CSPH*3612A**	34,800	20,200	13.5	11.0	1200	900	34,800	19,800	3.52	3.52	20,200	10,300	2.46	1.94	8.4	
	48-31	CSPH*4212A**	34,600	20,000	15.0	11.8	1050	700	33,400	18,000	3.60	3.56	19,000	8,800	2.54	1.96	
CSPH*4212A**		34,600	20,200	15.5	12.0	1050	700	33,200	18,000	3.64	3.60	19,000	8,800	2.56	1.98	8.6	
CSPH*4212A**		34,800	20,200	15.5	12.0	1050	700	33,400	18,000	3.66	3.60	19,000	8,900	2.56	1.98	8.6	
CSPH*4212A**		34,800	20,200	15.5	12.0	1050	700	33,200	18,000	3.66	3.60	18,900	8,800	2.58	1.98	8.6	
CSPH*4212A**		34,800	20,200	15.5	12.2	1050	700	33,200	18,000	3.68	3.60	18,900	8,800	2.60	1.98	8.6	
CSPH*4212A**		34,600	20,000	15.0	11.7	1050	700	33,400	18,000	3.58	3.58	19,100	8,900	2.52	1.98	8.6	
CSPH*4212A**		34,600	20,000	15.5	11.9	1050	700	33,200	18,000	3.62	3.58	19,000	8,800	2.56	1.96	8.6	
CSPH*4212A**		34,400	20,000	15.0	11.7	1050	700	33,400	18,000	3.58	3.58	19,100	8,900	2.52	1.96	8.6	
CSPH*4212A**		34,600	20,000	15.0	11.8	1050	700	33,400	18,000	3.62	3.58	19,100	8,900	2.54	1.96	8.6	
CSPH*4212A**		34,600	20,200	15.5	11.9	1050	700	33,400	18,000	3.62	3.60	19,000	8,900	2.56	1.98	8.6	
CSPH*4212A**		34,600	20,000	15.0	11.9	1050	700	33,200	18,000	3.62	3.56	19,000	8,800	2.56	1.96	8.6	
CSPH*4212A**		35,000	20,400	13.5	11.0	1200	900	35,000	19,800	3.56	3.54	20,400	10,300	2.46	1.94	8.5	
CSPH*4812A**		34,800	20,000	15.5	11.8	1050	700	33,600	18,000	3.62	3.58	19,200	8,800	2.54	1.96	8.6	
CSPH*4812A**		34,800	20,200	15.5	11.9	1050	700	33,400	18,000	3.64	3.60	19,100	8,800	2.56	1.98	8.6	
CSPH*4812A**		34,600	20,200	15.5	11.7	1050	700	33,600	18,000	3.60	3.60	19,200	8,900	2.54	1.98	8.6	
CSPH*4812A**		34,800	20,200	15.5	11.9	1050	700	33,400	18,000	3.64	3.60	19,100	8,900	2.56	1.98	8.6	
CSPH*4812A**		34,800	20,200	15.5	11.9	1050	700	33,400	18,200	3.64	3.62	19,100	8,900	2.56	1.98	8.6	
CSPH*4812A**		34,800	20,000	15.5	12.0	1050	700	33,400	18,000	3.64	3.58	19,000	8,800	2.56	1.96	8.6	
CSPH*4812A**		35,200	20,400	13.5	11.1	1200	900	35,200	19,800	3.58	3.56	20,400	10,300	2.48	1.94	8.5	
48-31		*FE4ANB006	48,000	24,000	16.3	11.8	1400	880	47,500	22,400	3.70	3.88	27,800	11,400	2.72	2.22	9.3
	FE4ANF005	47,000	24,000	15.8	11.6	1400	880	47,500	22,200	3.62	3.82	27,600	11,400	2.66	2.18	9.1	

See notes on page 18

COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		ARI Standard Ratings										Furnace Model																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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				SEER	EER	ID CFM		Capacity		High Temp		COP				Low Temp		HSPF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity		Cooling				ARI Standard Ratings										Furnace Model
				SEER	EER	ID CFM		High Temp		COP		Capacity		Low Temp		COP		HSPF
						High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	
48 – 31	CSPH*4812A**	46,000	23,600	15.5	11.1	1400	875	22,000	3.50	3.72	3.72	28,000	11,400	2,60	2.14	2.60	2.14	56CV(A,X)090–16
	CSPH*4812A**	46,500	23,600	15.5	11.1	1400	875	22,200	3.50	3.72	3.72	28,000	11,400	2,60	2.14	2.60	2.14	56CV(A,X)110–20
	CSPH*4812A**	46,500	23,600	15.5	11.3	1400	875	22,200	3.54	3.74	3.74	27,800	11,400	2,62	2.16	2.62	2.16	56CV(A,X)135–22
	CSPH*4812A**	46,500	23,800	15.5	11.4	1400	875	22,000	3.56	3.76	3.76	27,800	11,300	2,64	2.16	2.64	2.16	56CV(A,X)155–22
	CSPH*4812A**	46,000	23,600	15.0	11.0	1400	875	22,200	3.48	3.68	3.68	28,000	11,500	2,58	2.12	2.58	2.12	58MV(B)080–20
	CSPH*4812A**	46,000	23,600	15.0	11.0	1400	875	22,200	3.48	3.70	3.70	28,000	11,400	2,60	2.14	2.60	2.14	58MV(B)100–20
	CSPH*4812A**	46,000	23,600	15.0	11.1	1400	875	22,000	3.48	3.70	3.70	28,000	11,400	2,60	2.14	2.60	2.14	58MV(B)120–20
	CSPH*4812A**	47,000	23,800	13.5	10.8	1600	1200	24,000	3.52	3.56	3.56	29,000	13,100	2,58	2.04	2.58	2.04	56CV(A,X)090–16
	CSPH*6012A**	47,000	23,800	15.5	11.3	1400	875	22,200	3.60	3.76	3.76	28,000	11,400	2,64	2.16	2.64	2.16	56CV(A,X)110–20
	CSPH*6012A**	47,000	23,800	15.5	11.4	1400	875	22,000	3.60	3.76	3.76	28,000	11,400	2,64	2.16	2.64	2.16	56CV(A,X)135–22
	CSPH*6012A**	47,500	23,800	15.5	11.6	1400	875	22,200	3.64	3.78	3.78	27,800	11,400	2,68	2.16	2.68	2.16	56CV(A,X)155–22
	CSPH*6012A**	47,500	24,000	16.0	11.7	1400	875	22,200	3.66	3.80	3.80	27,800	11,300	2,68	2.18	2.68	2.18	56CV(A,X)155–22
	CSPH*6012A**	47,000	23,800	15.0	11.2	1400	875	22,200	3.56	3.72	3.72	28,000	11,500	2,62	2.14	2.62	2.14	58MV(B)080–20
	CSPH*6012A**	47,000	23,800	15.5	11.3	1400	875	22,200	3.58	3.74	3.74	28,000	11,400	2,64	2.14	2.64	2.14	58MV(B)100–20
	CSPH*6012A**	47,000	23,800	15.5	11.3	1400	875	22,200	3.58	3.72	3.72	28,000	11,400	2,64	2.14	2.64	2.14	58MV(B)120–20
	CSPH*6012A**	48,000	24,000	13.5	10.9	1600	1200	24,000	3.50	3.58	3.58	29,200	13,100	2,60	2.04	2.60	2.04	58MV(B)120–20
60 – 32	*FE4ANB006	60,000	37,000	15.3	11.1	1750	1225	57,500	3.48	3.78	3.78	34,200	18,800	2,64	2.36	2.64	2.36	56CV(A,X)110–20
	FV4BNB006	60,000	36,400	15.0	10.6	1835	1100	57,000	3.44	3.70	3.70	34,600	18,300	2,62	2.34	2.62	2.34	56CV(A,X)110–20
	CAP**6021A**	59,500	36,600	14.5	10.6	1750	1225	58,000	3.32	3.68	3.68	34,400	18,800	2,54	2.32	2.54	2.32	58MV(B)080–20
	CAP**6021A**	59,000	36,200	14.0	10.2	1750	1225	58,500	3.24	3.60	3.60	35,000	19,000	2,48	2.26	2.48	2.26	58MV(B)100–20
	CAP**6021A**	59,000	36,400	14.5	10.4	1750	1225	58,000	3.28	3.64	3.64	34,600	18,800	2,50	2.30	2.50	2.30	58MV(B)100–20
	CAP**6021A**	59,500	36,200	13.5	10.5	1750	1325	58,000	3.32	3.52	3.52	34,800	20,200	2,52	2.20	2.52	2.20	58CV(A,X)135–22
	CAP**6024A**	59,500	36,600	14.5	10.8	1750	1225	57,500	3.36	3.68	3.68	34,200	18,700	2,56	2.32	2.56	2.32	56CV(A,X)155–22
	CAP**6024A**	59,000	36,600	14.5	10.9	1750	1225	57,500	3.38	3.68	3.68	34,200	18,700	2,58	2.32	2.58	2.32	56CV(A,X)155–22
	CAP**6024A**	59,000	36,200	14.5	10.4	1750	1225	58,000	3.28	3.62	3.62	34,600	18,800	2,48	2.28	2.48	2.28	58MV(B)100–20
	CNP**6024A**	59,000	36,200	14.5	10.4	1750	1225	58,500	3.30	3.62	3.62	34,400	18,700	2,50	2.28	2.50	2.28	58MV(B)120–20
	CNP**6024A**	60,000	36,600	13.0	10.5	2000	1500	57,000	3.28	3.56	3.56	35,400	20,600	2,54	2.22	2.54	2.22	56CV(A,X)110–20
	CNP**6024A**	59,000	36,400	14.5	10.6	1750	1225	58,500	3.34	3.66	3.66	34,200	18,700	2,52	2.30	2.52	2.30	56CV(A,X)135–22
	CNP**6024A**	59,500	36,400	14.5	10.8	1750	1225	58,500	3.36	3.68	3.68	34,000	18,600	2,56	2.32	2.56	2.32	56CV(A,X)135–22
	CNP**6024A**	59,500	36,400	15.0	10.9	1750	1225	58,500	3.38	3.68	3.68	34,000	18,600	2,58	2.32	2.58	2.32	56CV(A,X)155–22
	CNP**6024A**	58,500	36,200	14.0	10.2	1750	1225	59,000	3.26	3.60	3.60	34,800	18,900	2,46	2.26	2.46	2.26	58MV(B)080–20
	CNP**6024A**	59,000	36,400	14.5	10.3	1750	1225	59,000	3.28	3.62	3.62	34,600	18,800	2,48	2.28	2.48	2.28	58MV(B)100–20
60 – 32	CNP**6024A**	59,000	36,200	14.5	10.4	1750	1225	58,500	3.30	3.62	3.62	34,400	18,700	2,50	2.28	2.50	2.28	58MV(B)120–20
	CNP**6024A**	60,000	36,600	13.0	10.4	2000	1500	59,500	3.32	3.54	3.54	35,200	20,600	2,52	2.20	2.52	2.20	56CV(A,X)135–22
	CNPV*6024A**	59,500	36,400	14.5	10.8	1750	1225	58,500	3.36	3.68	3.68	34,000	18,600	2,56	2.32	2.56	2.32	56CV(A,X)155–22
	CNPV*6024A**	59,000	36,200	14.5	10.4	1750	1225	58,500	3.30	3.62	3.62	34,400	18,700	2,50	2.28	2.50	2.28	58MV(B)120–20
	CNPV*6024A**	60,000	36,600	13.0	10.4	2000	1500	59,500	3.32	3.54	3.54	35,200	20,600	2,52	2.20	2.52	2.20	56CV(A,X)110–20
	CSPH*6012A**	59,500	36,600	14.5	10.7	1750	1225	58,500	3.40	3.68	3.68	34,400	18,800	2,56	2.30	2.56	2.30	56CV(A,X)135–22
	CSPH*6012A**	60,000	36,600	15.0	10.8	1750	1225	58,500	3.42	3.70	3.70	34,200	18,700	2,58	2.32	2.58	2.32	56CV(A,X)135–22
	CSPH*6012A**	60,000	36,600	15.0	10.9	1750	1225	58,500	3.44	3.70	3.70	34,200	18,700	2,60	2.32	2.60	2.32	56CV(A,X)155–22
	CSPH*6012A**	59,000	36,400	14.0	10.3	1750	1225	59,000	3.30	3.62	3.62	35,000	19,000	2,48	2.28	2.48	2.28	58MV(B)080–20
	CSPH*6012A**	59,000	36,400	14.5	10.4	1750	1225	59,000	3.34	3.64	3.64	34,800	18,900	2,50	2.30	2.50	2.30	58MV(B)100–20
	CSPH*6012A**	59,500	36,400	14.5	10.5	1750	1225	59,000	3.36	3.64	3.64	34,600	18,800	2,52	2.30	2.52	2.30	58MV(B)120–20
	CSPH*6012A**	60,500	37,000	13.5	10.5	2000	1500	59,000	3.38	3.58	3.58	35,600	20,800	2,54	2.22	2.54	2.22	56CV(A,X)110–20
	CAP**6021A**	59,500	36,600	14.5	10.6	1695	1190	57,500	3.32	3.68	3.68	34,400	18,800	2,54	2.32	2.54	2.32	56CV(A,X)110–20
	CNPV*6024A**	58,500	36,200	14	10.2	1695	1180	57,500	3.22	3.6	3.6	34,800	19,000	2,46	2.28	2.46	2.28	58MV(B)080–20
	CNPV*6024A**	59,000	36,400	14.5	10.3	1675	1160	57,000	3.24	3.64	3.64	34,600	18,800	2,48	2.3	2.48	2.3	58MV(B)100–20
	CNPV*6024A**	59,000	36,600	14.5	10.6	1695	1160	57,000	3.3	3.66	3.66	34,200	18,800	2,54	2.3	2.54	2.3	56CV(A,X)110–20

* Tested combination.

† Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on: Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

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

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

SEER — Seasonal Energy Efficiency Ratio

COP — Coefficient of Performance

TDR — Time-Delay Relay

HSPF — Heating Seasonal Performance Factor

EER — Energy Efficiency Ratio

DETAILED COOLING CAPACITIES#

EVAPORATOR AIR			CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																						
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)					
		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**					
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†				
600	72 (22.2)	29.20	14.50	1.69	1.69	27.67	13.90	1.92	1.92	25.98	13.25	2.08	2.08	24.10	12.55	2.19	2.19	22.00	11.80	2.23	2.23	19.69	10.98	2.21	2.21
	67 (19.4)	26.28	17.12	1.76	1.76	24.83	16.53	1.95	1.95	23.20	15.89	2.09	2.09	21.39	15.19	2.17	2.17	19.39	14.43	2.18	2.18	17.17	13.61	2.14	2.14
	63 (17.2)††	24.15	16.49	1.80	1.80	22.74	15.88	1.97	1.97	21.17	15.21	2.08	2.08	19.42	14.47	2.14	2.14	17.48	13.68	2.14	2.14	15.35	12.83	2.07	2.07
	62 (16.7)	23.60	19.72	1.80	1.80	22.21	19.14	1.97	1.97	20.66	18.50	2.08	2.08	18.95	17.79	2.13	2.13	17.11	16.97	2.13	2.13	15.52	15.52	2.08	2.08
	57 (13.9)	21.73	20.75	1.83	1.83	20.75	20.75	1.97	1.97	19.65	19.65	2.07	2.07	18.41	18.41	2.12	2.12	17.04	17.04	2.13	2.13	15.52	15.52	2.08	2.08
700	72 (22.2)	30.27	15.32	1.68	1.68	28.64	14.71	1.92	1.92	26.84	14.06	2.09	2.09	24.85	13.35	2.20	2.20	22.65	12.59	2.25	2.25	20.22	11.76	2.23	2.23
	67 (19.4)	27.28	18.38	1.75	1.75	25.73	17.79	1.96	1.96	24.00	17.14	2.10	2.10	22.09	16.44	2.19	2.19	19.98	15.67	2.21	2.21	17.66	14.83	2.17	2.17
	63 (17.2)††	25.10	17.69	1.80	1.80	23.59	17.06	1.98	1.98	21.92	16.39	2.10	2.10	20.07	15.65	2.17	2.17	18.03	14.85	2.17	2.17	15.80	13.97	2.10	2.10
	62 (16.7)	24.53	21.41	1.81	1.81	23.05	20.82	1.98	1.98	21.43	20.17	2.10	2.10	19.67	19.41	2.16	2.16	18.07	18.07	2.17	2.17	16.44	16.44	2.13	2.13
	57 (13.9)	23.12	23.12	1.83	1.83	22.06	22.06	1.99	1.99	20.87	20.87	2.10	2.10	19.55	19.55	2.16	2.16	18.08	18.08	2.17	2.17	16.44	16.44	2.13	2.13
735	72 (22.2)	30.58	15.58	1.68	1.68	28.92	14.97	1.92	1.92	27.08	14.32	2.09	2.09	25.06	13.61	2.21	2.21	22.83	12.85	2.26	2.26	20.37	12.02	2.24	2.24
	67 (19.4)	27.57	18.79	1.76	1.76	25.98	18.20	1.96	1.96	24.23	17.55	2.11	2.11	22.29	16.85	2.20	2.20	20.14	16.08	2.22	2.22	17.80	15.24	2.18	2.18
	63 (17.2)††	25.37	18.08	1.80	1.80	23.83	17.46	1.99	1.99	22.13	16.78	2.11	2.11	20.25	16.04	2.18	2.18	18.18	15.23	2.18	2.18	15.93	14.35	2.12	2.12
	62 (16.7)	24.80	21.97	1.81	1.81	23.30	21.38	1.99	1.99	21.66	20.72	2.11	2.11	19.90	19.90	2.17	2.17	18.39	18.39	2.18	2.18	16.72	16.72	2.15	2.15
	57 (13.9)	23.55	23.55	1.83	1.83	22.46	22.46	1.99	1.99	21.25	21.25	2.11	2.11	19.89	19.89	2.17	2.17	18.39	18.39	2.18	2.18	16.72	16.72	2.15	2.15
800	72 (22.2)	31.09	16.06	1.68	1.68	29.37	15.45	1.92	1.92	27.48	14.79	2.10	2.10	25.41	14.08	2.22	2.22	23.12	13.31	2.27	2.27	20.60	12.48	2.26	2.26
	67 (19.4)	28.05	18.54	1.76	1.76	26.41	18.95	1.97	1.97	24.60	18.30	2.12	2.12	22.61	17.60	2.21	2.21	20.42	16.83	2.24	2.24	18.03	15.98	2.20	2.20
	63 (17.2)††	25.81	18.79	1.81	1.81	24.23	18.16	1.99	1.99	22.48	17.49	2.12	2.12	20.55	16.74	2.19	2.19	18.44	15.93	2.20	2.20	16.15	15.03	2.14	2.14
	62 (16.7)	25.26	22.98	1.81	1.81	23.72	22.38	2.00	2.00	22.06	21.68	2.12	2.12	20.49	20.49	2.19	2.19	18.93	18.93	2.21	2.21	17.20	17.20	2.17	2.17
	57 (13.9)	24.28	24.28	1.83	1.83	23.15	23.15	2.00	2.00	21.90	21.90	2.12	2.12	20.49	20.49	2.19	2.19	18.93	18.93	2.21	2.21	17.20	17.20	2.17	2.17
CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																									
25HNA624A31 Outdoor Section With FE4ANF003 Indoor Section – Low Stage																									
440	72 (22.2)	18.47	9.59	0.92	0.92	17.19	9.12	1.02	1.02	15.90	8.67	1.12	1.12	14.60	8.23	1.20	1.20	13.26	7.77	1.29	1.29	11.83	7.30	1.36	1.36
	67 (19.4)	16.46	11.60	0.96	0.96	15.29	11.15	1.05	1.05	14.12	10.72	1.14	1.14	12.92	10.30	1.22	1.22	11.68	9.86	1.30	1.30	10.35	9.39	1.36	1.36
	63 (17.2)††	15.03	11.09	0.98	0.98	13.94	10.65	1.07	1.07	12.86	10.22	1.15	1.15	11.74	9.79	1.23	1.23	10.57	9.34	1.30	1.30	9.30	8.85	1.35	1.35
	62 (16.7)	14.67	13.60	0.98	0.98	13.62	13.18	1.07	1.07	12.65	12.65	1.15	1.15	11.83	11.83	1.23	1.23	10.95	10.95	1.30	1.30	9.98	9.98	1.36	1.36
	57 (13.9)	14.19	14.19	0.99	0.99	13.43	13.43	1.07	1.07	12.65	12.65	1.15	1.15	11.83	11.83	1.23	1.23	10.95	10.95	1.30	1.30	9.98	9.98	1.36	1.36
490	72 (22.2)	18.90	10.03	0.92	0.92	17.56	9.55	1.02	1.02	16.21	9.09	1.12	1.12	14.86	8.64	1.21	1.21	13.47	8.18	1.29	1.29	12.00	7.70	1.36	1.36
	67 (19.4)	16.86	12.26	0.95	0.95	15.63	11.81	1.05	1.05	14.40	11.38	1.14	1.14	13.16	10.94	1.22	1.22	11.88	10.50	1.30	1.30	10.52	10.02	1.36	1.36
	63 (17.2)††	15.39	11.72	0.98	0.98	14.25	11.27	1.07	1.07	13.12	10.83	1.15	1.15	11.96	10.40	1.24	1.24	10.76	9.94	1.31	1.31	9.47	9.47	1.36	1.36
	62 (16.7)	15.04	14.49	0.98	0.98	14.00	13.96	1.07	1.07	13.15	13.15	1.15	1.15	12.28	12.28	1.23	1.23	11.36	11.36	1.30	1.30	10.34	10.34	1.36	1.36
	57 (13.9)	14.80	14.80	0.99	0.99	13.99	13.99	1.07	1.07	13.15	13.15	1.15	1.15	12.28	12.28	1.23	1.23	11.36	11.36	1.30	1.30	10.34	10.34	1.36	1.36
525	72 (22.2)	19.16	10.32	0.92	0.92	17.78	9.84	1.02	1.02	16.40	9.37	1.12	1.12	15.02	8.92	1.21	1.21	13.60	8.46	1.29	1.29	12.10	7.98	1.36	1.36
	67 (19.4)	17.09	12.71	0.96	0.96	15.82	12.26	1.05	1.05	14.57	11.82	1.14	1.14	13.30	11.38	1.23	1.23	12.00	10.94	1.30	1.30	10.63	10.44	1.37	1.37
	63 (17.2)††	15.61	12.17	0.98	0.98	14.44	11.69	1.07	1.07	13.27	11.25	1.16	1.16	12.09	10.81	1.24	1.24	10.87	10.35	1.31	1.31	9.65	9.65	1.36	1.36
	62 (16.7)	15.28	15.07	0.98	0.98	14.34	14.34	1.07	1.07	13.47	13.47	1.15	1.15	12.57	12.57	1.23	1.23	11.61	11.61	1.31	1.31	10.56	10.56	1.37	1.37
	57 (13.9)	15.19	15.19	0.98	0.98	14.34	14.34	1.07	1.07	13.47	13.47	1.15	1.15	12.57	12.57	1.23	1.23	11.61	11.61	1.31	1.31	10.56	10.56	1.37	1.37
600	72 (22.2)	19.61	10.90	0.93	0.93	18.16	10.42	1.03	1.03	16.71	9.95	1.12	1.12	15.27	9.49	1.22	1.22	13.81	9.03	1.30	1.30	12.26	8.55	1.37	1.37
	67 (19.4)	17.50	13.64	0.96	0.96	16.17	13.18	1.06	1.06	14.86	12.74	1.15	1.15	13.55	12.29	1.23	1.23	12.17	11.82	1.31	1.31	10.97	10.97	1.38	1.38
	63 (17.2)††	15.99	13.01	0.98	0.98	14.76	12.55	1.08	1.08	13.54	12.10	1.16	1.16	12.32	11.65	1.25	1.25	11.11	11.07	1.32	1.32	10.01	10.01	1.38	1.38
	62 (16.7)	15.93	15.93	0.98	0.98	15.00	15.00	1.07	1.07	14.07	14.07	1.16	1.16	13.10	13.10	1.24	1.24	12.08	12.08	1.31	1.31	10.97	10.97	1.38	1.38
	57 (13.9)	15.93	15.93	0.98	0.98	15.00	15.00	1.07	1.07	14.07	14.07	1.16	1.16	13.10	13.10	1.24	1.24	12.08	12.08	1.31	1.31	10.97	10.97	1.38	1.38

DETAILED COOLING CAPACITIES#

25HNA624A31 Outdoor Section With FE4ANF003 Indoor Section

Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CSPH*3012A**	0.99	1.02	1.01	1.04	58MV060-14
CSPH*3612A**	1.00	1.01	1.01	1.03	58MV060-14
CAP**3617A**	0.99	1.01	1.01	1.03	58MV080-14
CAP**3621A**	0.99	1.01	1.01	1.03	58MV080-14
CNPH*2417A**	0.98	1.02	1.00	1.04	58MV080-14
CNPH*3017A**	0.99	1.01	1.01	1.04	58MV080-14
CNPH*3617A**	0.99	1.02	1.01	1.04	58MV080-14
CNVP*3617A**	0.99	1.02	1.01	1.04	58MV080-14
CNVP*3621A**	0.98	1.02	1.00	1.03	58MV080-14
CSPH*2412A**	0.99	1.01	1.01	1.04	58MV080-14
CSPH*3012A**	1.00	1.01	1.01	1.03	58MV080-14
CSPH*3612A**	0.98	1.02	1.01	1.03	58VLR105-12
CNVP*2417A**	0.99	1.01	1.03	1.02	58VLR105-12
CNVP*3017A**	0.99	1.01	1.03	1.02	58VLR105-12
CNVP*3617A**	0.99	1.01	1.03	1.02	58VLR105-12
CNVP*3621A**	0.99	1.01	1.03	1.02	58VLR105-12
CNVP*2417A**	0.96	1.02	0.99	1.03	58VLR105-12
CNVP*3017A**	0.98	1.01	1.00	1.04	58VLR105-12
CNVP*3617A**	0.98	1.01	1.00	1.04	58VLR105-12
CNVP*3621A**	0.98	1.00	1.00	1.04	58VLR105-12

See notes on page 27

Cooling Indoor Model		High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANF003		1.00	1.00	1.00	1.00	
FE4ANF002		0.99	1.01	1.00	1.01	
FV4BNF002		1.00	1.01	0.99	1.01	
FV4BNF003		1.00	0.99	0.99	1.00	
CAP**2414A**		0.97	1.01	1.00	1.04	58CV/A.X1070-12
CAP**3014A**		0.98	1.02	1.00	1.03	58CV/A.X1070-12
CAP**3614A**		0.98	1.01	1.00	1.03	58CV/A.X1070-12
CAP**3617A**		0.98	1.01	1.00	1.02	58CV/A.X1070-12
CNPH*2417A**		0.97	1.01	1.00	1.04	58CV/A.X1070-12
CNPH*3017A**		0.98	1.01	1.00	1.02	58CV/A.X1070-12
CNPH*3617A**		0.98	1.01	1.00	1.02	58CV/A.X1070-12
CNPH*2414A**		0.97	1.01	1.00	1.04	58CV/A.X1070-12
CNPV*3014A**		0.98	1.02	1.00	1.03	58CV/A.X1070-12
CNPV*3617A**		0.98	1.01	1.00	1.02	58CV/A.X1070-12
CNPV*3617A**		0.98	1.01	1.00	1.02	58CV/A.X1070-12
CNPH*3617A**		0.98	1.01	1.00	1.03	58CV/A.X1070-12
CNPH*3012A**		0.99	1.02	1.00	1.03	58CV/A.X1070-12
CSPH*3612A**		1.00	1.01	1.01	1.03	58CV/A.X1070-12
CAP**2417A**		0.98	1.00	1.00	1.03	58CV/A.X1090-16
CAP**3017A**		0.98	1.00	1.00	1.02	58CV/A.X1090-16
CAP**3614A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CAP**3617A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CAP**3621A**		0.99	1.00	1.01	1.03	58CV/A.X1090-16
CNPH*2417A**		0.98	1.01	1.00	1.03	58CV/A.X1090-16
CNPH*3017A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CNPH*3617A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CNPV*3017A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CNPV*3617A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CNPV*3617A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CNPV*3621A**		0.99	1.01	1.01	1.03	58CV/A.X1090-16
CSPH*2412A**		0.98	1.01	1.00	1.03	58CV/A.X1090-16
CSPH*3012A**		0.99	1.00	1.01	1.02	58CV/A.X1090-16
CSPH*3612A**		0.99	1.00	1.01	1.02	58CV/A.X1090-16
CAP**3621A**		0.99	1.01	1.01	1.03	58MV/B040-14
CNPH*2417A**		0.98	1.02	1.00	1.04	58MV/B040-14
CNPH*3017A**		0.99	1.02	1.00	1.02	58MV/B040-14
CNPH*3617A**		0.99	1.01	1.01	1.03	58MV/B040-14
CAP**3621A**		0.99	1.01	1.01	1.03	58MV/B060-14
CAP**3017A**		0.98	1.01	1.00	1.03	58MV/B060-14
CAP**3614A**		0.99	1.02	1.00	1.02	58MV/B060-14
CAP**3617A**		0.99	1.01	1.01	1.03	58MV/B060-14
CAP**3621A**		0.99	1.01	1.01	1.03	58MV/B060-14
CNPH*2417A**		0.97	1.01	1.00	1.04	58MV/B060-14
CNPH*3017A**		0.98	1.01	1.00	1.02	58MV/B060-14
CNPH*3617A**		0.98	1.01	1.00	1.02	58MV/B060-14
CNPV*3017A**		0.98	1.01	1.00	1.02	58MV/B060-14
CNPV*3617A**		0.98	1.01	1.00	1.02	58MV/B060-14
CNPV*3621A**		0.98	1.01	1.00	1.02	58MV/B060-14
CSPH*2412A**		0.98	1.02	1.00	1.03	58MV/B060-14

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																							
CFM	EWB ° F (° C)	75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
		Capacity MBtuh		Total System KW**	Total System KW**		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**				
		Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		
		25HNA638A31 Outdoor Section With FE4ANB006 Indoor Section – High Stage																							
900	72 (22.2)	44.12	22.44	2.37	2.37	41.45	21.30	2.62	2.62	38.63	20.13	2.85	2.85	35.74	18.95	3.08	3.08	32.79	17.76	3.29	3.29	29.80	16.55	3.51	3.51
	67 (19.4)	40.03	22.20	2.37	2.37	37.43	20.93	2.60	2.60	34.75	20.63	2.81	2.81	32.02	23.33	3.01	3.01	29.28	22.03	3.20	3.20	26.53	20.75	3.39	3.39
	63 (17.2)††	36.96	26.25	2.37	2.37	34.45	24.94	2.57	2.57	31.88	23.62	2.76	2.76	29.28	22.31	2.94	2.94	26.70	21.02	3.12	3.12	24.15	19.76	3.30	3.30
	62 (16.7)	36.13	31.90	2.37	2.37	33.65	30.50	2.57	2.57	31.12	29.08	2.75	2.75	28.58	27.65	2.93	2.93	26.14	26.14	3.11	3.11	24.11	24.11	3.30	3.30
	57 (13.9)	34.28	34.28	2.36	2.36	32.27	32.27	2.55	2.55	30.23	30.23	2.74	2.74	28.18	28.18	2.92	2.92	26.14	26.14	3.11	3.11	24.11	24.11	3.30	3.30
1050	72 (22.2)	45.41	23.76	2.38	2.38	42.65	22.61	2.64	2.64	39.73	21.41	2.88	2.88	36.73	20.20	3.11	3.11	33.65	18.96	3.34	3.34	30.51	17.73	3.55	3.55
	67 (19.4)	41.29	20.93	2.39	2.39	38.60	20.02	2.62	2.62	35.80	20.67	2.84	2.84	32.95	25.32	3.05	3.05	30.08	23.98	3.24	3.24	27.21	22.64	3.44	3.44
	63 (17.2)††	38.19	28.27	2.39	2.39	35.58	26.93	2.60	2.60	32.89	25.56	2.80	2.80	30.17	24.20	2.99	2.99	27.47	22.86	3.17	3.17	24.79	21.54	3.35	3.35
	62 (16.7)	37.37	34.81	2.39	2.39	34.80	33.34	2.60	2.60	32.19	31.81	2.79	2.79	29.84	29.84	2.98	2.98	27.65	27.65	3.17	3.17	25.45	25.45	3.37	3.37
	57 (13.9)	36.34	36.34	2.39	2.39	34.21	34.21	2.59	2.59	32.03	32.03	2.79	2.79	29.84	29.84	2.98	2.98	27.65	27.65	3.17	3.17	25.45	25.45	3.37	3.37
1100	72 (22.2)	45.76	24.18	2.39	2.39	42.98	23.03	2.65	2.65	40.03	21.83	2.89	2.89	36.99	20.60	3.13	3.13	33.88	19.36	3.35	3.35	30.71	18.11	3.57	3.57
	67 (19.4)	41.63	30.01	2.40	2.40	38.92	28.69	2.63	2.63	36.09	27.33	2.85	2.85	33.21	25.97	3.06	3.06	30.30	24.61	3.26	3.26	27.39	23.25	3.45	3.45
	63 (17.2)††	38.53	28.92	2.40	2.40	35.89	27.57	2.61	2.61	33.17	26.19	2.81	2.81	30.42	24.81	3.00	3.00	27.68	23.45	3.18	3.18	24.97	22.11	3.36	3.36
	62 (16.7)	37.72	35.74	2.40	2.40	35.14	34.24	2.61	2.61	32.57	32.57	2.80	2.80	30.33	30.33	3.00	3.00	28.09	28.09	3.19	3.19	25.84	25.84	3.40	3.40
	57 (13.9)	36.94	36.94	2.39	2.39	34.78	34.78	2.60	2.60	32.56	32.56	2.80	2.80	30.33	30.33	3.00	3.00	28.09	28.09	3.19	3.19	25.84	25.84	3.40	3.40
1200	72 (22.2)	46.35	25.01	2.39	2.39	43.54	23.85	2.66	2.66	40.54	22.63	2.91	2.91	37.45	21.38	3.15	3.15	34.28	20.12	3.37	3.37	31.04	18.85	3.59	3.59
	67 (19.4)	42.23	31.35	2.41	2.41	39.47	30.01	2.65	2.65	36.58	28.63	2.87	2.87	33.65	27.24	3.08	3.08	30.68	25.84	3.28	3.28	27.71	24.45	3.48	3.48
	63 (17.2)††	39.13	30.19	2.41	2.41	36.43	28.81	2.63	2.63	33.66	27.41	2.83	2.83	30.85	26.00	3.02	3.02	28.05	24.61	3.20	3.20	25.29	23.23	3.39	3.39
	62 (16.7)	38.37	37.53	2.41	2.41	35.83	35.83	2.62	2.62	33.53	33.53	2.83	2.83	31.22	31.22	3.03	3.03	28.89	28.89	3.23	3.23	26.56	26.56	3.44	3.44
	57 (13.9)	38.05	38.05	2.41	2.41	35.82	35.82	2.62	2.62	33.53	33.53	2.83	2.83	31.22	31.22	3.03	3.03	28.89	28.89	3.23	3.23	26.56	26.56	3.44	3.44

EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																					
CFM	EWB ° F (° C)	75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
		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**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
25HNA636A31 Outdoor Section With FE4ANB006 Indoor Section – Low Stage																									
660	72 (22.2)	26.17	13.81	1.11	1.11	24.57	13.22	1.32	1.32	22.82	12.58	1.48	1.48	20.99	11.93	1.58	1.58	19.04	11.24	1.64	1.64	16.94	10.52	1.66	1.66
	67 (19.4)	23.64	17.01	1.22	1.22	22.09	16.38	1.39	1.39	20.42	15.74	1.52	1.52	18.68	15.05	1.60	1.60	16.81	14.34	1.63	1.63	14.83	13.60	1.63	1.63
	63 (17.2)††	21.78	16.35	1.28	1.28	20.28	15.70	1.43	1.43	18.69	15.03	1.54	1.54	17.01	14.33	1.60	1.60	15.23	13.60	1.61	1.61	13.94	12.83	1.59	1.59
	62 (16.7)	21.27	20.17	1.30	1.30	19.80	19.52	1.44	1.44	18.48	18.48	1.54	1.54	17.20	17.20	1.60	1.60	15.83	15.83	1.62	1.62	14.35	14.35	1.62	1.62
	57 (13.9)	20.82	20.82	1.31	1.31	19.68	19.68	1.44	1.44	18.48	18.48	1.54	1.54	17.20	17.20	1.60	1.60	15.83	15.83	1.62	1.62	14.35	14.35	1.62	1.62
735	72 (22.2)	26.66	14.42	1.10	1.10	25.02	13.83	1.31	1.31	23.22	13.19	1.48	1.48	21.33	12.53	1.59	1.59	19.32	11.84	1.65	1.65	17.17	11.11	1.67	1.67
	67 (19.4)	24.12	17.98	1.21	1.21	22.52	17.36	1.39	1.39	20.80	16.70	1.52	1.52	19.00	16.01	1.60	1.60	17.09	15.30	1.64	1.64	15.06	14.54	1.64	1.64
	63 (17.2)††	22.25	17.28	1.28	1.28	20.69	16.62	1.43	1.43	19.04	15.94	1.54	1.54	17.31	15.23	1.61	1.61	15.48	14.49	1.63	1.63	13.61	13.61	1.61	1.61
	62 (16.7)	21.75	21.50	1.29	1.29	20.46	20.46	1.44	1.44	19.19	19.19	1.54	1.54	17.85	17.85	1.61	1.61	16.42	16.42	1.64	1.64	14.87	14.87	1.64	1.64
	57 (13.9)	21.65	21.65	1.30	1.30	20.46	20.46	1.44	1.44	19.19	19.19	1.54	1.54	17.85	17.85	1.61	1.61	16.41	16.41	1.64	1.64	14.87	14.87	1.64	1.64
800	72 (22.2)	27.00	14.92	1.09	1.09	25.29	14.32	1.31	1.31	23.47	13.69	1.48	1.48	21.56	13.05	1.59	1.59	19.52	12.34	1.66	1.66	17.33	11.61	1.68	1.68
	67 (19.4)	24.46	18.80	1.20	1.20	22.81	18.17	1.39	1.39	21.06	17.51	1.53	1.53	19.22	16.83	1.61	1.61	17.28	16.10	1.65	1.65	15.26	15.26	1.65	1.65
	63 (17.2)††	22.57	18.05	1.28	1.28	20.98	17.40	1.44	1.44	19.30	16.71	1.55	1.55	17.53	16.00	1.62	1.62	15.67	15.24	1.64	1.64	13.95	13.95	1.63	1.63
	62 (16.7)	22.29	22.29	1.28	1.28	21.05	21.05	1.43	1.43	19.74	19.74	1.54	1.54	18.35	18.35	1.62	1.62	16.86	16.86	1.65	1.65	15.26	15.26	1.65	1.65
	57 (13.9)	22.29	22.29	1.28	1.28	21.05	21.05	1.43	1.43	19.74	19.74	1.54	1.54	18.35	18.35	1.62	1.62	16.86	16.86	1.65	1.65	15.26	15.26	1.65	1.65
900	72 (22.2)	27.40	15.69	1.08	1.08	25.66	15.07	1.31	1.31	23.80	14.43	1.49	1.49	21.84	13.78	1.61	1.61	19.75	13.08	1.68	1.68	17.51	12.35	1.70	1.70
	67 (19.4)	24.86	20.03	1.20	1.20	23.17	19.40	1.39	1.39	21.38	18.73	1.54	1.54	19.50	18.04	1.63	1.63	17.53	17.29	1.67	1.67	15.77	15.77	1.68	1.68
	63 (17.2)††	22.98	19.21	1.28	1.28	21.34	18.55	1.45	1.45	19.61	17.85	1.56	1.56	17.80	17.13	1.63	1.63	16.05	16.05	1.66	1.66	14.41	14.41	1.65	1.65
	62 (16.7)	23.14	23.14	1.27	1.27	21.84	21.84	1.43	1.43	20.46	20.46	1.55	1.55	19.01	19.01	1.63	1.63	17.45	17.45	1.67	1.67	15.77	15.77	1.68	1.68
	57 (13.9)	23.14	23.14	1.27	1.27	21.84	21.84	1.43	1.43	20.46	20.46	1.55	1.55	19.01	19.01	1.63	1.63	17.45	17.45	1.67	1.67	15.77	15.77	1.68	1.68

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DETAILED COOLING CAPACITIES# CONTINUED

25HNA636A31 Outdoor Section With FE4ANB006 Indoor Section

Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CAP**4824A**	0.96	1.02	0.96	1.02	58MVB120-20
CNPH*3617A**	0.93	1.02	0.94	1.02	58MVB120-20
CNPH*4221A**	0.95	1.00	0.95	1.02	58MVB120-20
CNPH*4821A**	0.97	1.01	0.96	1.02	58MVB120-20
CNPV*4821A**	0.97	1.01	0.96	1.02	58MVB120-20
CNPV*4824A**	0.97	1.01	0.96	1.02	58MVB120-20
CSPH*3612A**	0.96	1.03	0.95	1.01	58MVB120-20
CSPH*4212A**	0.97	1.02	0.96	1.02	58MVB120-20
CSPH*4812A**	0.97	1.02	0.96	1.01	58MVB120-20
CNPV*3617A**	0.94	1.05	0.93	1.01	58VLR105-12
CNPV*4821A**	0.97	1.04	0.95	1.01	58VLR105-12
CNPV*3621A**	0.94	1.01	0.93	1.01	58VLR120-20
CNPV*4221A**	0.95	1.01	0.93	1.00	58VLR120-20
CNPV*4821A**	0.97	1.01	0.94	0.99	58VLR120-20
CNPV*4824A**	0.97	1.01	0.94	0.99	58VLR120-20
CNPV*3617A**	0.93	1.03	0.91	1.00	58VMR105-12
CNPV*4821A**	0.96	1.03	0.93	1.00	58VMR105-12
CNPV*3621A**	0.93	1.02	0.92	1.01	58VMR120-20
CNPV*4221A**	0.94	1.03	0.92	1.01	58VMR120-20
CNPV*4821A**	0.97	1.02	0.93	1.00	58VMR120-20
CNPV*4824A**	0.97	1.02	0.93	1.00	58VMR120-20

See notes on page 27

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		75 (23.9)				85 (29.4)				CONDENSER ENTERING AIR TEMPERATURES °F (°C)				105 (40.6)				115 (46.1)				125 (51.7)								
CFM	EWB °F (°C)	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**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**								
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†						
25HNA648A31 Outdoor Section With FE4N8006 Indoor Section – High Stage																														
1200	72 (22.2)	58.01	28.96	3.41	55.03	27.80	3.74	51.91	26.60	4.06	48.63	25.37	4.38	45.15	24.09	4.67	43.21	23.41	4.99	41.27	22.46	5.31	39.30	21.41	5.63	37.38	20.37	5.95	35.45	19.34
	67 (19.4)	52.26	34.64	3.37	49.48	33.48	3.68	46.56	32.30	3.98	43.49	31.07	4.27	40.24	28.80	4.55	36.77	28.46	4.81	34.74	27.10	5.08	32.72	26.07	5.32	30.79	25.04	5.58	28.86	24.01
	63 (17.2)††	48.11	33.38	3.34	45.48	32.21	3.64	42.72	31.00	3.92	39.81	29.75	4.19	36.74	28.46	4.44	33.47	27.10	4.68	31.45	25.85	4.91	29.43	24.54	5.14	27.50	23.61	5.37	25.57	22.51
	62 (16.7)	47.03	40.31	3.33	44.44	39.17	3.62	41.73	37.99	3.90	38.90	36.75	4.17	35.95	35.42	4.42	33.28	33.28	4.68	31.30	31.30	4.85	29.38	29.38	5.09	27.45	27.45	5.31	25.52	25.52
	57 (13.9)	43.98	43.98	3.31	42.10	42.10	3.59	40.10	40.10	3.87	37.98	37.98	4.15	35.72	35.72	4.41	33.28	33.28	4.68	31.30	31.30	4.85	29.38	29.38	5.09	27.45	27.45	5.31	25.52	25.52
1400	72 (22.2)	59.97	30.64	3.45	56.80	29.45	3.79	53.48	28.23	4.12	50.01	26.98	4.44	46.34	25.68	4.74	42.41	24.31	5.03	39.30	23.41	5.27	37.38	22.46	5.51	35.45	21.41	5.75	33.52	19.46
	67 (19.4)	54.07	37.24	3.42	51.10	36.07	3.74	48.00	34.86	4.05	44.75	33.62	4.34	41.32	32.32	4.62	37.67	30.96	4.88	35.45	28.80	5.08	33.52	27.10	5.32	31.50	25.85	5.58	29.57	24.01
	63 (17.2)††	49.80	35.84	3.39	46.99	34.64	3.69	44.06	33.41	3.98	40.98	32.14	4.26	37.74	30.82	4.51	34.30	29.43	4.76	32.28	28.46	4.99	30.36	27.10	5.21	28.33	26.07	5.44	26.40	24.01
	62 (16.7)	48.71	43.82	3.39	45.96	42.64	3.68	43.12	41.41	3.97	40.22	40.02	4.24	37.69	37.69	4.52	35.05	35.05	4.79	33.03	33.03	4.99	31.10	31.10	5.21	29.17	29.17	5.44	27.24	27.24
	57 (13.9)	46.63	46.63	3.37	44.58	44.58	3.66	42.42	42.42	3.95	40.13	40.13	4.24	37.69	37.69	4.52	35.05	35.05	4.79	33.03	33.03	4.99	31.10	31.10	5.21	29.17	29.17	5.44	27.24	27.24
1470	72 (22.2)	60.54	31.20	3.47	57.31	30.00	3.81	53.94	28.78	4.14	50.40	27.52	4.46	46.67	26.21	4.77	42.69	24.84	5.05	39.54	24.01	5.29	37.62	23.07	5.53	35.69	22.04	5.77	33.74	21.09
	67 (19.4)	54.60	38.12	3.44	51.57	36.94	3.76	48.41	35.72	4.07	45.11	34.48	4.36	41.62	33.17	4.64	37.93	31.80	4.90	35.80	30.82	5.14	33.86	27.71	5.38	31.91	25.56	5.62	29.98	23.61
	63 (17.2)††	50.30	36.66	3.41	47.43	35.46	3.71	44.44	34.22	4.00	41.31	32.94	4.28	38.02	31.62	4.54	34.54	30.22	4.78	32.52	28.46	4.99	30.59	27.10	5.21	28.66	26.07	5.44	26.73	24.01
	62 (16.7)	49.21	45.00	3.40	46.42	43.81	3.70	43.55	42.53	3.99	40.79	40.79	4.27	38.29	38.29	4.55	35.59	35.59	4.82	33.57	33.57	4.99	31.64	31.64	5.21	29.71	29.71	5.44	27.78	27.78
	57 (13.9)	47.45	47.45	3.39	45.35	45.35	3.69	43.14	43.14	3.98	40.79	40.79	4.27	38.29	38.29	4.55	35.60	35.60	4.82	33.58	33.58	4.99	31.65	31.65	5.21	29.72	29.72	5.44	27.79	27.79
1600	72 (22.2)	61.48	32.19	3.50	58.15	30.99	3.84	54.67	29.76	4.18	51.04	28.49	4.50	47.22	27.17	4.81	43.14	25.79	5.09	41.03	24.01	5.33	39.10	23.06	5.57	37.17	22.03	5.81	35.14	21.09
	67 (19.4)	55.46	38.70	3.47	52.34	38.51	3.79	49.09	37.29	4.10	45.69	36.03	4.40	42.12	34.72	4.68	38.35	33.34	4.95	36.20	31.10	5.19	34.14	29.03	5.41	32.10	27.90	5.65	30.07	25.04
	63 (17.2)††	51.11	38.15	3.44	48.15	45.07	3.74	45.07	35.69	4.04	41.86	34.40	4.32	38.49	33.06	4.58	34.94	31.64	4.82	32.82	28.46	4.99	30.62	27.10	5.21	29.18	29.18	5.44	27.25	27.25
	62 (16.7)	50.05	47.11	3.43	47.21	45.87	3.73	44.37	44.37	4.03	41.92	41.92	4.32	39.32	39.32	4.61	36.52	36.52	4.88	34.40	34.40	4.99	32.62	32.62	5.21	30.62	30.62	5.44	28.62	28.62
	57 (13.9)	48.86	48.86	3.42	46.67	46.67	3.73	44.36	44.36	4.03	41.92	41.92	4.32	39.32	39.32	4.61	36.52	36.52	4.88	34.40	34.40	4.99	32.62	32.62	5.21	30.62	30.62	5.44	28.62	28.62

EVAPORATOR AIR		75 (23.9)				85 (29.4)				CONDENSER ENTERING AIR TEMPERATURES °F (°C)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)				
CFM	EWB °F (°C)	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**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**					
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	Total	Sens†	
25HNA648A31 Outdoor Section With FE4N8006 Indoor Section – Low Stage																														
880	72 (22.2)	31.43	17.25	1.41	29.11	16.32	1.57	26.78	15.41	1.73	24.45	14.50	1.87	22.12	13.60	2.01	19.73	12.70	2.14	17.39	11.79	2.27	15.06	10.79	2.39	12.86	10.40	2.51	10.63	9.91
	67 (19.4)	28.32	21.61	1.44	26.16	20.61	1.59	24.00	19.62	1.73	21.86	18.64	1.87	19.70	17.67	1.99	17.52	16.69	2.10	15.26	14.36	2.22	13.13	12.23	2.32	11.00	10.10	2.42	9.87	9.15
	63 (17.2)††	26.09	20.73	1.46	24.05	19.73	1.60	22.04	18.75	1.73	20.03	17.77	1.85	18.01	16.80	1.97	15.98	15.81	2.07	13.86	13.69	2.17	11.74	11.57	2.27	9.60	9.43	2.37	8.47	8.30
	62 (16.7)	25.69	25.69	1.46	24.03	24.03	1.60	22.37	22.37	1.73	20.70	20.70	1.86	18.99	18.99	1.98	17.24	17.24	2.10	15.49	15.49	2.19	13.30	13.30	2.28	11.19	11.19	2.36	10.00	10.00
	57 (13.9)	25.68	25.68	1.46	24.03	24.03	1.60	22.37	22.37	1.73	20.69	20.69	1.86	18.99	18.99	1.98	17.24	17.24	2.10	15.49	15.49	2.19	13.30	13.30	2.28	11.19	11.19	2.36	10.00	10.00
995	72 (22.2)	31.98	18.14	1.43	29.59	17.20	1.59	27.18	16.26	1.75	24.79	15.34	1.90	22.39	14.42	2.04	19.94	13.50	2.16	17.59	15.69	2.29	15.26	13.36	2.41	13.01	11.11	2.53	10.76	8.86
	67 (19.4)	28.83	23.06	1.46	26.60	22.03	1.61	24.37	21.01	1.76	22.17	20.00	1.89	19.97	18.99	2.02	17.81	17.81	2.13	15.61	15.61	2.22	13.50	13.50	2.31	11.29	11.29	2.40	9.98	9.98
	63 (17.2)††	26.57	22.09	1.48	24.47	21.06	1.62	22.39	20.04	1.75	20.32	19.04	1.88	18.27	18.01	2.00	16.42	16.42	2.11	14.27	14.27	2.19	12.23	12.23	2.28	10.17	10.17	2.35	9.00	9.00
	62 (16.7)	26.70	26.70	1.48	24.95	24.95	1.62	23.20	23.20	1.76	21.44	21.44	1.89	19.65	19.65	2.01	17.81	17.81	2.13	16.00	16.00	2.21	14.00	14.00	2.29	12.00	12.00	2.36	10.00	10.00
	57 (13.9)	26.70	26.70	1.48	24.95	24.95	1.62	23.20	23.20	1.76	21.44	21.44	1.89	19.65	19.65	2.01	17.81	17.81	2.13	16.00	16.00	2.21	14.00	14.00	2.29	12.00	12.00	2.36	10.00	10.00
1050	72 (22.2)	32.20	18.56	1.44	29.77	17.60	1.60	27.34	16.66	1.76	24.92	15.73	1.91	22.49	14.80	2.05	20.01	13.87	2.18	17.66	16.66	2.27	15.49	14.50	2.37	13.30	12.31	2.47	11.19	1
	67 (19.4)	29.03	23.74	1.47	26.77	22.69	1.62	24.52	21.66	1.77	22.29	20.84	1.90	20.08	19.60	2.03	18.04	18.04	2.15	16.00	15.52	2.22	14.00	13.52	2.30	12.00	11.52	2.38	10.00	9.52
	63 (17.2)††	26.76	22.72	1.49	24.63	21.68	1.63	22.53	20.65	1.77	20.44	19.62	1.89	18.43	18.43	2.01	16.63	16.63	2.12	14.50	14.50	2.19	12.50	12.50	2.26	10.50	10.50	2.33	9.00	9.00
	62 (16.7)	27.14	27.14	1.48	25.35	25.35	1.63	23.55	23.55	1.77	21.75	21.75	1.90	19.92	19.92	2.03	18.04	18.04	2.12	16.00	16.00	2.19	14.00	14.00	2.26	12.00	12.00	2.33	10.00	10.00
	57 (13.9)	27.14	27.14	1.48	25.35	25.35	1.63	23.55	23.55	1.77	21.75	21.75	1.90	19.92	19.92	2.03	18.04	18.04	2.12	16.00	16.00	2.19	14.00	14.00	2.26	12.00	12.00	2.33	10.00	10.00
1200	72 (22.2)	32.64	19.63	1.47	30.14	18.66	1.64	27.64	17.69	1.80	25.17	16.74	1.95	22.68	15.79	2.09	20.15	14.84	2.22	18.00	17.01	2.32	16.00	15.01	2.41	14.00	13.01	2.50	12.00	11.01
	67 (19.4)	29.44	25.51	1.50	27.13	24.43	1.66	24.83	23.35	1.81	22.57	22.24	1.94	20.54	20.54	2.07	18.57	18.57	2.20	16.50	16.50	2.27	14.50	14.50	2.34	12.50	12.50	2.41	10.50	10.50
	63 (17.2)††	27.16	24.38	1.52	24.97	23.29	1.67	22.83	22.20	1.81	20.81	20.81	1.94	18.97	18.97	2.06	17.08	17.08	2.17	15.50	15.50	2.24	13.50	13.50	2.31	11.50	11.50	2.38	10.00	10.00
	62 (16.7)	28.14	28.14	1.52	26.26	26.26	1.66	24.37	24.37	1.81	22.47	22.47	1.94	20.55	20.55	2.07	18.57	18.57	2.20	16.50	16.50	2.27	14.50	14.50	2.34	12.50	12.50	2.41	10.50	10.50
	57 (13.9)	28.14	28.14	1.52	26.26	26.26	1.66	24.37	24.37	1.81	22.47	22.47	1.94	20.55	20.55	2.07	18.57	18.57	2.20	16.50	16.50	2.27	14.50	14.50	2.34	12.50	12.50	2.41	10.50	10.50

25HNA648A31 Outdoor Section With FE4ANB006 Indoor Section

See notes on page 27

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		75 (23.9)				85 (29.4)				CONDENSER ENTERING AIR TEMPERATURES °F (°C)				105 (40.6)				115 (46.1)				125 (51.7)			
CFM	EWB °F (°C)	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**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
25HNA60A32 Outdoor Section With FE4N8008 Indoor Section – High Stage																									
1500	72 (22.2)	74.24	36.70	4.82	69.55	34.81	5.14	64.81	32.94	5.48	60.07	31.12	5.84	55.21	29.29	6.22	50.14	27.43	6.62	44.95	25.47	7.00	39.88	23.51	7.38
	67 (19.4)	66.90	43.76	4.64	62.61	41.88	4.95	58.30	40.04	5.33	53.96	38.24	5.63	49.55	36.44	6.01	44.95	34.61	6.40	41.10	33.03	6.78	37.25	31.15	7.16
	63 (17.2)††	61.52	42.15	4.50	57.51	40.27	4.81	53.50	38.44	5.13	49.47	36.64	5.48	45.37	34.85	5.84	41.10	33.03	6.22	37.25	31.15	6.60	33.03	27.13	6.98
	62 (16.7)	60.11	50.74	4.47	56.18	48.88	4.77	52.27	47.05	5.10	48.35	45.24	5.44	44.42	43.38	5.81	42.61	42.46	6.19	38.76	32.98	6.57	34.71	29.45	6.95
	57 (13.9)	55.70	55.70	4.36	52.84	52.84	4.68	49.96	49.96	5.03	47.02	47.02	5.40	43.98	43.98	5.79	42.54	42.54	6.16	38.68	38.68	6.54	34.14	34.14	6.92
1750	72 (22.2)	76.70	38.70	4.95	71.68	36.75	5.27	66.63	34.83	5.61	61.59	32.96	5.96	56.44	31.09	6.34	51.09	29.18	6.75	45.94	27.26	7.16	40.78	25.34	7.57
	67 (19.4)	69.22	46.91	4.77	64.61	44.97	5.08	60.00	43.08	5.40	55.39	41.22	5.76	50.71	39.38	6.13	45.88	37.50	6.52	41.93	35.61	6.93	37.50	31.53	7.35
	63 (17.2)††	63.70	45.13	4.63	59.41	43.20	4.93	55.12	41.31	5.25	50.84	39.46	5.60	46.49	37.62	5.96	44.43	36.81	6.33	40.78	34.71	6.74	36.81	30.85	7.16
	62 (16.7)	62.27	55.01	4.60	58.09	53.07	4.90	53.95	51.14	5.22	49.88	49.15	5.57	46.26	46.26	5.96	42.75	42.75	6.38	38.68	38.68	6.75	34.14	34.14	7.16
	57 (13.9)	59.06	59.06	4.52	55.94	55.94	4.84	52.78	52.78	5.19	49.57	49.57	5.56	46.26	46.26	5.96	42.75	42.75	6.38	38.68	38.68	6.75	34.14	34.14	7.16
1835	72 (22.2)	77.39	39.34	5.00	72.27	37.37	5.31	67.13	35.44	5.65	62.00	33.56	6.00	56.77	31.67	6.38	51.35	29.76	6.78	46.46	27.76	7.19	41.27	25.77	7.60
	67 (19.4)	69.87	47.92	4.81	65.17	45.97	5.12	60.47	44.06	5.44	55.79	42.20	5.80	51.03	40.34	6.17	46.13	38.45	6.56	42.20	36.63	6.97	37.50	31.53	7.35
	63 (17.2)††	64.32	46.10	4.67	59.94	44.15	4.97	55.57	42.24	5.29	51.21	40.38	5.64	46.80	38.53	6.00	42.26	36.63	6.38	38.53	38.53	6.74	34.14	34.14	7.16
	62 (16.7)	62.89	56.39	4.64	58.44	54.42	4.94	54.45	52.44	5.26	50.36	50.36	5.61	46.93	46.93	6.01	43.34	43.34	6.44	38.68	38.68	6.74	34.14	34.14	7.16
	57 (13.9)	60.08	60.08	4.57	56.87	56.87	4.89	53.62	53.62	5.24	50.33	50.33	5.61	46.94	46.94	6.01	43.34	43.34	6.44	38.68	38.68	6.74	34.14	34.14	7.16
2000	72 (22.2)	78.55	40.53	5.07	73.27	38.54	5.39	67.97	36.58	5.72	62.69	34.68	6.08	57.32	32.78	6.46	51.76	30.84	6.85	46.46	27.76	7.27	41.27	25.77	7.68
	67 (19.4)	70.97	49.84	4.88	66.12	47.87	5.19	61.26	45.93	5.52	56.44	44.05	5.87	51.56	42.16	6.24	46.55	40.23	6.63	42.20	36.63	7.04	37.50	31.53	7.45
	63 (17.2)††	65.37	47.92	4.74	60.84	45.93	5.04	56.33	44.00	5.36	51.84	42.11	5.71	47.32	40.22	6.07	42.88	38.29	6.45	38.29	38.29	6.74	34.14	34.14	7.16
	62 (16.7)	63.98	58.98	4.71	59.82	56.93	5.01	55.38	54.77	5.34	51.67	51.67	5.71	48.12	48.12	6.11	44.36	44.36	6.53	38.68	38.68	6.74	34.14	34.14	7.16
	57 (13.9)	61.89	61.89	4.66	58.52	58.52	4.98	55.12	55.12	5.33	51.67	51.67	5.71	48.12	48.12	6.11	44.37	44.37	6.53	38.68	38.68	6.74	34.14	34.14	7.16

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB °F (°C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)							
		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh							
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†						
25HNA60A32 Outdoor Section With FE4N8006 Indoor Section – Low Stage																			
1100	72 (22.2)	46.59	24.34	2.31	43.55	23.08	2.61	40.32	21.77	2.87	37.02	20.44	3.11	33.59	19.08	3.31	30.04	17.69	3.49
	67 (19.4)	42.37	30.01	2.38	39.46	28.61	2.64	36.43	27.16	2.87	33.29	25.69	3.07	30.08	24.20	3.25	26.78	22.70	3.39
	63 (17.2)††	39.20	28.94	2.41	36.40	27.51	2.64	33.49	26.04	2.85	30.51	24.56	3.03	27.46	23.06	3.18	24.36	21.56	3.31
	62 (16.7)	38.36	35.60	2.41	35.61	34.03	2.64	32.79	32.40	2.85	30.23	30.23	3.03	27.76	27.76	3.19	25.22	25.22	3.34
	57 (13.9)	37.24	37.24	2.42	34.97	34.97	2.64	32.63	32.63	2.85	30.23	30.23	3.03	27.76	27.76	3.19	25.22	25.22	3.34
1225	72 (22.2)	47.31	25.29	2.33	44.19	24.01	2.63	40.89	22.68	2.90	37.50	21.32	3.15	34.00	19.94	3.36	30.36	18.53	3.54
	67 (19.4)	43.10	31.59	2.40	40.11	30.15	2.67	37.00	28.68	2.91	33.79	27.17	3.11	30.50	25.65	3.29	27.12	24.10	3.45
	63 (17.2)††	39.92	30.44	2.44	37.04	28.97	2.68	34.06	27.47	2.89	31.00	25.96	3.08	27.88	24.42	3.23	24.70	22.86	3.36
	62 (16.7)	39.12	37.76	2.44	36.35	36.08	2.68	33.79	33.79	2.89	31.28	31.28	3.08	28.70	28.70	3.25	26.04	26.04	3.41
	57 (13.9)	38.60	38.60	2.45	36.24	36.24	2.68	33.79	33.79	2.89	31.28	31.28	3.08	28.70	28.70	3.25	26.04	26.04	3.41
1330	72 (22.2)	47.76	26.03	2.36	44.60	24.74	2.66	41.25	23.39	2.94	37.80	22.02	3.18	34.25	20.63	3.40	30.55	19.20	3.58
	67 (19.4)	43.56	32.85	2.43	40.53	31.39	2.70	37.36	29.89	2.94	34.10	28.36	3.16	30.76	26.80	3.34	27.33	25.21	3.49
	63 (17.2)††	40.39	31.63	2.47	37.46	30.14	2.71	34.42	28.62	2.93	31.31	27.07	3.12	28.14	25.50	3.28	24.92	23.89	3.41
	62 (16.7)	39.68	39.40	2.47	37.14	37.14	2.71	34.62	34.62	2.93	32.04	32.04	3.13	29.37	29.37	3.31	26.61	26.61	3.47
	57 (13.9)	39.57	39.57	2.47	37.14	37.14	2.71	34.62	34.62	2.93	32.04	32.04	3.13	29.37	29.37	3.31	26.61	26.61	3.47
1500	72 (22.2)	48.28	27.14	2.41	45.05	25.83	2.73	41.63	24.47	3.01	38.12	23.08	3.26	34.49	21.66	3.48	30.72	20.21	3.66
	67 (19.4)	44.11	34.79	2.49	41.01	33.29	2.77	37.78	31.75	3.02	34.45	30.17	3.23	31.04	28.56	3.42	27.57	26.86	3.58
	63 (17.2)††	40.94	33.45	2.53	37.94	31.93	2.78	34.84	30.36	3.01	31.67	28.76	3.20	28.44	27.11	3.36	25.24	25.24	3.50
	62 (16.7)	40.88	40.88	2.53	38.35	38.35	2.78	35.73	35.73	3.01	33.02	33.02	3.22	30.24	30.24	3.40	27.35	27.35	3.57

DETAILED COOLING CAPACITIES# CONTINUED

25HNA660A32 Outdoor Section With FE4ANB006 Indoor Section

Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANB006	1.00	1.00	1.00	1.00	
FV4BNB006	1.00	1.05	0.98	0.98	
CAP**6021A**	0.99	1.05	0.98	1.11	
CAP**6024A**	1.00	1.06	0.99	1.14	
CNPH*6024A**	1.00	1.07	0.99	1.13	
CNPV*6024A**	1.00	1.07	0.99	1.13	
CSPH*6024A**	1.01	1.07	1.00	1.14	
CAP**6021A**	0.99	1.04	0.99	1.02	58CV(A.X)110-20
CAP**6021A**	0.99	1.04	0.99	1.02	58CV(A.X)110-20
CNPH*6024A**	0.98	1.03	0.98	1.01	58CV(A.X)110-20
CNPV*6024A**	0.98	1.03	0.99	1.02	58CV(A.X)110-20
CSPH*6012A**	0.99	1.03	0.99	1.02	58CV(A.X)110-20
CAP**6024A**	0.99	1.02	0.99	1.01	58CV(A.X)135-22
CNPH*6024A**	0.99	1.02	0.98	1.00	58CV(A.X)135-22
CNPV*6024A**	0.99	1.02	0.98	1.00	58CV(A.X)135-22
CSPH*6012A**	1.00	1.03	0.99	1.01	58CV(A.X)135-22
CAP**6024A**	1.00	1.02	0.99	1.01	58CV(A.X)155-22
CNPH*6024A**	0.99	1.01	0.98	1.00	58CV(A.X)155-22
CNPV*6024A**	0.99	1.01	0.98	1.00	58CV(A.X)155-22
CSPH*6012A**	1.00	1.02	0.99	1.00	58CV(A.X)155-22
CAP**6021A**	0.98	1.07	0.98	1.03	58MVB080-20
CNPH*6024A**	0.98	1.06	0.98	1.04	58MVB080-20
CNPV*6024A**	0.98	1.06	0.98	1.04	58MVB080-20
CSPH*6012A**	0.98	1.06	0.98	1.04	58MVB080-20
CAP**6021A**	0.98	1.05	0.98	1.02	58MVB100-20
CNPH*6024A**	0.98	1.06	0.98	1.03	58MVB100-20
CNPV*6024A**	0.98	1.06	0.98	1.03	58MVB100-20
CSPH*6012A**	0.98	1.05	0.98	1.02	58MVB100-20
CAP**6024A**	0.98	1.05	0.98	1.02	58MVB120-20
CNPH*6024A**	0.98	1.05	0.98	1.02	58MVB120-20
CNPV*6024A**	0.98	1.05	0.98	1.02	58MVB120-20
CSPH*6012A**	0.99	1.05	0.98	1.02	58MVB120-20

* Tested combination.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

** 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.

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

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

EWB — Entering Wet Bulb

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																						
EDB ° F (° C)	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)									
		Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys- tem KW†	Capacity MBtuh		Total Sys. KW†									
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*										
25HNA624A31 Outdoor Section With FE4ANF003 Indoor Section — High Stage																									
65 (18.3)	600	6.21	5.71	1.17	9.18	8.44	1.32	12.72	11.59	1.49	16.77	14.90	1.67	20.49	18.64	1.81	22.86	22.86	1.89	24.37	24.37	1.91	25.85	25.85	1.93
	700	6.43	5.91	1.18	9.51	8.74	1.33	13.12	11.97	1.49	17.20	15.28	1.65	19.82	18.04	1.75	21.04	21.04	1.77	22.19	22.19	1.78	23.25	23.25	1.79
	735	6.49	5.97	1.19	9.61	8.83	1.34	13.25	12.08	1.50	17.17	15.25	1.65	19.41	17.67	1.73	20.53	20.53	1.74	21.59	21.59	1.75	22.53	22.53	1.75
70 (21.1)	800	6.61	6.08	1.20	9.78	8.99	1.35	13.44	12.25	1.50	17.07	15.16	1.64	18.77	17.08	1.69	19.76	19.76	1.70	20.67	20.67	1.70	21.40	21.40	1.70
	600	5.62	5.17	1.17	8.49	7.80	1.33	11.99	10.93	1.51	15.94	14.15	1.69	20.18	18.36	1.86	23.32	23.32	1.99	24.97	24.97	2.02	26.63	26.63	2.05
	700	5.82	5.35	1.18	8.80	8.09	1.35	12.40	11.31	1.51	16.53	14.68	1.69	19.89	18.10	1.82	21.60	21.60	1.87	22.90	22.90	1.89	24.14	24.14	1.90
75 (23.9)	735	5.88	5.41	1.19	8.90	8.18	1.35	12.52	11.42	1.52	16.73	14.86	1.69	19.79	18.01	1.82	21.12	21.12	1.84	22.33	22.33	1.85	23.46	23.46	1.86
	800	5.99	5.51	1.20	9.06	8.33	1.36	12.73	11.60	1.53	16.81	14.93	1.69	19.24	17.51	1.78	20.37	20.37	1.80	21.43	21.43	1.81	22.39	22.39	1.81
	600	5.00	4.60	1.16	7.81	7.18	1.34	11.22	10.23	1.52	15.13	13.43	1.71	19.66	17.89	1.91	23.15	23.15	2.05	25.43	25.43	2.12	27.19	27.19	2.15
	700	5.19	4.77	1.18	8.10	7.44	1.35	11.63	10.60	1.53	15.63	13.88	1.72	19.63	17.86	1.88	22.04	22.04	1.96	23.48	23.48	1.99	24.88	24.88	2.01
	735	5.25	4.83	1.19	8.19	7.52	1.36	11.75	10.72	1.54	15.78	14.02	1.72	19.55	17.79	1.87	21.60	21.60	1.93	22.93	22.93	1.95	24.22	24.22	1.97
	800	5.35	4.92	1.20	8.34	7.66	1.37	11.98	10.92	1.54	16.09	14.29	1.73	19.38	17.64	1.86	20.86	20.86	1.89	22.07	22.07	1.91	23.20	23.20	1.92

INDOOR AIR				OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																		
EDB ° F (° C)	CFM	7 (–13.9)		17 (–8.3)		27 (–2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)								
		Capacity MBtuh Total	Integ*	Total Sys. KW†	Capacity MBtuh Total	Integ*	Total Sys. KW†	Capacity MBtuh Total	Integ*	Total Sys. KW†	Capacity MBtuh Total	Integ*	Total Sys. KW†	Capacity MBtuh Total	Integ*	Total Sys. KW†						
25HNA624A31 Outdoor Section With FE4ANF003 Indoor Section – Low Stage																						
65 (18.3)	440	4.87	4.48	0.92	6.84	6.23	0.96	8.86	7.87	1.00	11.11	10.11	1.04	13.63	13.63	1.09	15.83	15.83	1.13	17.29	17.29	1.17
	490	4.99	4.58	0.92	6.98	6.36	0.96	9.04	8.03	0.99	11.36	10.34	1.03	13.96	13.96	1.07	15.82	15.82	1.11	16.42	16.42	1.12
	525	5.06	4.65	0.92	7.07	6.44	0.96	9.16	8.13	0.98	11.51	10.48	1.02	14.04	14.04	1.06	15.56	15.56	1.09	15.86	15.86	1.10
70 (21.1)	600	5.20	4.78	0.93	7.23	6.60	0.96	9.38	8.33	0.98	11.81	10.74	1.01	14.06	14.06	1.04	14.69	14.69	1.06	14.77	14.77	1.07
	440	4.33	3.98	0.94	6.35	5.79	0.99	8.41	7.47	1.03	10.60	9.64	1.08	13.06	13.06	1.13	15.47	15.47	1.18	17.29	17.29	1.23
	490	4.44	4.08	0.94	6.50	5.93	0.99	8.59	7.63	1.03	10.84	9.87	1.07	13.40	13.40	1.11	15.53	15.53	1.16	16.60	16.60	1.18
75 (23.9)	525	4.52	4.15	0.94	6.59	6.01	0.99	8.70	7.72	1.02	10.99	10.00	1.06	13.62	13.62	1.10	15.52	15.52	1.14	16.10	16.10	1.16
	600	4.65	4.28	0.95	6.76	6.16	0.99	8.90	7.90	1.02	11.27	10.25	1.05	13.78	13.78	1.09	15.00	15.00	1.12	15.17	15.17	1.12
	440	3.73	3.42	0.95	5.83	5.32	1.02	7.92	7.03	1.07	10.09	9.18	1.12	12.48	12.48	1.17	15.04	15.04	1.23	16.97	16.97	1.28
	490	3.84	3.53	0.95	5.98	5.45	1.02	8.10	7.20	1.06	10.32	9.39	1.11	12.82	12.82	1.16	15.18	15.18	1.20	16.72	16.72	1.25
	525	3.91	3.59	0.95	6.07	5.53	1.02	8.21	7.29	1.06	10.46	9.52	1.10	13.01	13.01	1.15	15.22	15.22	1.19	16.30	16.30	1.22
	600	4.04	3.71	0.96	6.24	5.69	1.02	8.42	7.47	1.06	10.73	9.77	1.09	13.39	13.39	1.13	15.18	15.18	1.17	15.48	15.48	1.18

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	High Speed Cap.	Power	Low Speed Cap.	Power	Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANF003	1.00	1.00	1.00	1.00	CAP**2417A**	1.11	1.08	1.02	CNPH*3017A**	1.04	1.05	1.01	1.02	58CV(A,X)090-16
FE4ANF002	1.02	1.01	1.00	1.00	CAP**3017A**	1.06	1.06	1.02	CNPH*3617A**	1.04	1.05	1.01	1.02	58CV(A,X)090-16
FV4BNF002	0.99	1.00	0.99	1.02	CAP**3614A**	1.00	1.02	1.01	CNPH*3612A**	1.04	1.05	1.01	1.02	58MBV040-14
FV4BNF003	0.98	0.99	0.97	1.01	CAP**3617A**	1.00	1.01	1.01	CSPH*2412A**	1.09	1.08	1.01	1.03	58MBV040-14
CAP**2414A**	1.11	1.09	1.00	1.03	CAP**3621A**	1.00	1.01	1.01	CSPH*3012A**	1.01	1.03	1.01	1.03	58MBV040-14
CAP**3014A**	1.06	1.07	1.00	1.02	CNPH*2417A**	1.11	1.07	1.02	CSPH*3612A**	0.89	0.94	1.01	1.01	58MBV060-14
CAP**3614A**	1.01	1.03	1.01	1.02	CNPH*3017A**	1.04	1.04	1.02	CAP**2417A**	1.08	1.08	1.00	1.02	58MBV060-14
CNPH*2417A**	1.11	1.07	1.01	1.03	CNPH*3617A**	1.04	1.04	1.01	CAP**3017A**	1.06	1.06	1.01	1.03	58MBV060-14
CNPH*3017A**	1.05	1.06	1.01	1.03	CNPH*3612A**	1.04	1.04	1.02	CAP**3614A**	1.01	1.03	1.01	1.02	58MBV060-14
CNPH*3617A**	1.05	1.06	1.01	1.03	CNPH*3621A**	1.04	1.04	1.01	CAP**3621A**	1.01	1.03	1.01	1.01	58MBV060-14
CNPH*2414A**	1.11	1.07	1.01	1.03	CNPH*2412A**	1.10	1.08	1.01	CNPH*2417A**	1.11	1.07	1.01	1.03	58MBV060-14
CNPH*3014A**	1.05	1.06	1.01	1.03	CSPH*2412A**	1.01	1.03	1.01	CNPH*3017A**	1.04	1.05	1.01	1.02	58MBV060-14
CNPH*3617A**	1.05	1.06	1.01	1.03	CSPH*3012A**	1.01	1.03	1.01	CNPH*3617A**	1.04	1.05	1.01	1.02	58MBV060-14
CSPH*2412A**	1.11	1.09	1.01	1.03	CSPH*3612A**	0.90	0.94	1.03	CNPH*2417A**	1.11	1.07	1.01	1.03	58MBV060-14
CSPH*3012A**	1.02	1.04	1.01	1.03	CAP**3621A**	1.00	1.02	1.01	CNPH*3017A**	1.04	1.05	1.01	1.02	58MBV060-14
CSPH*3612A**	0.91	0.95	1.03	1.02	CNPH*2417A**	1.11	1.07	1.01	CNPH*3617A**	1.04	1.05	1.01	1.02	58MBV060-14

HEAT PUMP HEATING PERFORMANCE CONTINUED

25HNA624A31 Outdoor Section With FE4ANF003 Indoor Section

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CNPV*3621A**	1.04	1.05	1.01	1.02	58MVB080-14
CSPH*2412A**	1.10	1.08	1.01	1.03	58MVB080-14
CSPH*3012A**	1.01	1.03	1.01	1.03	58MVB080-14
CSPH*3612A**	0.90	0.94	1.03	1.01	58MVB080-14
CAP*3617A**	1.00	1.02	1.01	1.01	58MVB080-14
CAP*3621A**	1.00	1.02	1.01	1.01	58MVB080-14
CNPV*2417A**	1.11	1.07	1.01	1.02	58MVB080-14
CNPV*3017A**	1.04	1.05	1.01	1.02	58MVB080-14
CNPV*3617A**	1.04	1.05	1.01	1.02	58MVB080-14
CNPV*3617A**	1.04	1.05	1.01	1.02	58MVB080-14
CNPV*3621A**	1.04	1.05	1.01	1.02	58MVB080-14
CSPH*2412A**	1.09	1.08	1.01	1.03	58MVB080-14
CSPH*3012A**	1.01	1.03	1.01	1.02	58MVB080-14
CSPH*3612A**	0.89	0.94	1.03	1.01	58MVB080-14
CNPV*2417A**	1.11	1.07	1.01	1.00	58VLR105-12
CNPV*3017A**	1.04	1.05	1.01	0.99	58VLR105-12
CNPV*3617A**	1.04	1.05	1.01	0.99	58VLR105-12
CNPV*3621A**	1.04	1.05	1.01	0.99	58VLR105-12
CNPV*2417A**	1.11	1.07	1.00	1.04	58VLR105-12
CNPV*3017A**	1.07	1.07	1.00	1.04	58VLR105-12
CNPV*3617A**	1.07	1.07	1.00	1.04	58VLR105-12
CNPV*3621A**	1.07	1.07	1.00	1.04	58VLR105-12

See notes on page 34

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																															
			-3 (-19.4)				7 (-13.9)				17 (-8.3)				27 (-2.8)				37 (2.8)				47 (8.3)				57 (13.9)				67 (19.4)			
			Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†					
Total	Integ*	Total	Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total		Integ*	Total	Integ*	Total	Integ*
EDB °F (° C)	CFM	25HNA638A31 Outdoor Section With FEAN8006 Indoor Section – High Stage																																
65 (18.3)	900	9.38	8.63	1.78	14.65	13.47	1.83	19.66	17.93	2.08	24.43	21.70	2.23	29.12	26.49	2.39	34.23	34.23	2.55	38.82	38.82	2.72	42.68	42.68	2.91									
	1050	9.69	8.92	1.80	15.09	13.87	1.94	20.21	18.43	2.09	25.08	22.28	2.23	30.05	27.35	2.38	35.11	35.11	2.52	39.01	39.01	2.66	38.63	38.63	2.69									
	1100	9.78	9.00	1.81	15.21	13.98	1.95	20.37	18.57	2.09	25.27	22.44	2.23	30.34	27.61	2.38	35.21	35.21	2.51	38.18	38.18	2.62	37.29	37.29	2.63									
	1200	9.95	9.15	1.82	15.44	14.19	1.96	20.84	18.82	2.10	25.59	22.73	2.24	30.86	28.09	2.37	35.28	35.28	2.49	36.05	36.05	2.54	34.95	34.95	2.55									
70 (21.1)	900	8.10	7.45	1.78	13.48	12.39	1.93	18.58	16.94	2.09	23.43	20.81	2.26	28.09	25.56	2.42	33.04	33.04	2.60	37.88	37.88	2.79	41.90	41.90	2.99									
	1050	8.39	7.72	1.80	13.89	12.76	1.95	19.10	17.41	2.10	24.07	21.38	2.26	28.91	26.30	2.42	34.20	34.20	2.57	38.30	38.30	2.73	39.20	39.20	2.80									
	1100	8.47	7.79	1.81	14.00	12.87	1.96	19.25	17.55	2.11	24.25	21.54	2.26	29.14	26.52	2.42	34.35	34.35	2.56	38.27	38.27	2.71	37.94	37.94	2.74									
	1200	8.62	7.93	1.82	14.22	13.06	1.97	19.52	17.80	2.12	24.57	21.82	2.27	29.58	26.92	2.41	34.52	34.52	2.55	36.69	36.69	2.64	35.73	35.73	2.65									
75 (23.9)	900	6.82	6.28	1.79	12.31	11.31	1.94	20.21	18.42	2.06	22.42	19.91	2.28	27.10	24.68	2.46	32.00	32.00	2.85	36.94	36.94	2.84	41.05	41.05	3.06									
	1050	7.06	6.50	1.81	12.68	11.65	1.96	17.98	16.39	2.12	23.04	20.46	2.29	27.85	25.35	2.45	33.12	33.12	2.62	37.49	37.49	2.79	39.61	39.61	2.91									
	1100	7.14	6.56	1.81	12.79	11.75	1.97	18.12	16.52	2.12	23.21	20.62	2.29	28.08	25.55	2.45	33.40	33.40	2.62	37.54	37.54	2.78	38.34	38.34	2.85									
	1200	7.28	6.69	1.82	12.99	11.94	1.98	18.38	16.76	2.13	23.53	20.90	2.29	28.48	25.92	2.45	33.70	33.70	2.60	37.15	37.15	2.74	36.31	36.31	2.76									

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
EDB ° F (° C)	CFM	7 (–13.9)		17 (–8.3)		27 (–2.6)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)				
		Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT	Capacity MBtuh Total	Total Sys. KwT			
65 (18.3)	660	6.35	5.83	1.19	8.87	1.25	12.94	1.31	16.00	14.56	1.35	18.93	18.93	24.55	1.43			
	735	6.56	6.03	1.20	10.01	1.26	13.28	11.79	1.31	16.39	14.92	1.34	19.38	19.38	25.04			
	800	6.73	6.18	1.20	10.23	1.26	13.53	12.02	1.31	16.69	15.18	1.33	19.71	19.71	25.39			
	900	6.95	6.39	1.22	10.51	1.27	13.86	12.31	1.31	17.07	15.53	1.33	20.16	20.16	25.72			
	960	6.90	6.24	1.20	8.73	1.27	12.04	10.69	1.34	15.16	13.79	1.39	18.14	18.14	23.83			
70 (21.1)	735	5.43	4.99	1.21	9.00	1.28	12.36	10.88	1.34	15.55	14.15	1.39	18.60	18.60	23.83			
	800	5.57	5.12	1.22	9.20	1.29	12.61	11.20	1.34	15.84	14.42	1.38	18.94	18.94	24.35			
	900	5.78	5.31	1.23	9.48	1.30	12.95	11.50	1.35	16.23	14.77	1.38	19.38	19.38	24.70			
75 (23.9)	660	4.05	3.72	1.21	7.67	1.29	11.07	9.83	1.37	14.28	12.99	1.43	17.32	17.32	23.09			
	735	4.21	3.87	1.22	7.92	1.30	11.39	10.12	1.37	14.66	13.34	1.43	17.78	17.78	23.63			
	800	4.34	3.99	1.23	8.11	1.31	11.64	10.34	1.37	14.96	13.61	1.42	18.11	18.11	24.00			
	900	4.53	4.16	1.24	8.38	1.32	11.97	10.63	1.38	15.34	13.96	1.43	18.56	18.56	24.43			

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANB006	1.00	1.00	1.00	1.00	
FE4ANF002	0.96	1.06	0.98	1.05	
FE4ANF003	0.95	1.04	0.97	1.03	
FE4ANF005	0.99	1.02	0.99	1.01	
FES4ANB004	1.01	1.00	1.00	1.00	
FV4BNB006	1.01	1.00	0.97	1.00	
FV4BNF002	0.98	1.07	0.95	1.04	
FV4BNF003	0.96	1.04	0.95	1.03	
FV4BNF005	1.00	1.02	0.97	1.02	
CAP**3614A**	0.98	1.13	1.03	1.17	
CAP**3617A**	1.00	1.14	1.05	1.18	
CAP**3621A**	1.01	1.14	1.05	1.18	
CAP**4221A**	1.01	1.14	1.05	1.17	
CAP**4224A**	1.01	1.14	1.05	1.17	
CAP**4817A**	1.05	1.12	1.08	1.16	
CAP**4821A**	1.03	1.12	1.06	1.16	
CAP**4824A**	1.03	1.12	1.06	1.16	

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CNPH*4221A**	0.96	1.05	0.96	1.04	58CV(A)X070-12
CNPV*3617A**	0.95	1.08	0.96	1.06	58CV(A)X070-12
CSPH*3612A**	0.97	1.06	0.97	1.05	58CV(A)X070-12
CSPH*4212A**	0.98	1.06	0.97	1.04	58CV(A)X070-12
CSPH*4812A**	0.98	1.06	0.97	1.04	58CV(A)X070-12
CAP*3617A**	0.95	1.06	0.96	1.04	58CV(A)X090-16
CAP*4817A**	0.99	1.04	0.98	1.03	58CV(A)X090-16
CAP*4821A**	0.97	1.03	0.97	1.03	58CV(A)X090-16
CNPH*3617A**	0.95	1.06	0.96	1.05	58CV(A)X090-16
CNPH*4221A**	0.95	1.03	0.96	1.03	58CV(A)X090-16
CNPH*4821A**	0.97	1.03	0.97	1.03	58CV(A)X090-16
CNPV*3617A**	0.95	1.06	0.96	1.05	58CV(A)X090-16
CNPV*4821A**	0.97	1.03	0.97	1.03	58CV(A)X090-16
CSPH*3612A**	0.96	1.04	0.97	1.04	58CV(A)X090-16
CSPH*4212A**	0.97	1.04	0.97	1.03	58CV(A)X090-16
CSPH*4812A**	0.98	1.04	0.97	1.03	58CV(A)X090-16
CAP*3621A**	0.95	1.05	0.96	1.04	58CV(A)X110-20

225HNA636A31 Outdoor Section With FE4ANB006 Indoor Section

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CNPV*3617A**	0.95	1.07	0.96	1.05	56MV/B060-14
CNPV*4821A**	0.97	1.04	0.97	1.03	56MV/B060-14
CSPH*3612A**	0.97	1.05	0.97	1.03	56MV/B060-14
CSPH*4212A**	0.97	1.04	0.97	1.04	56MV/B060-14
CSPH*4812A**	0.98	1.04	0.97	1.03	56MV/B060-14
CAP*3621A**	0.95	1.07	0.96	1.05	56MV/B080-14
CAP*4821A**	0.96	1.07	0.96	1.04	56MV/B080-14
CAP*3617A**	0.99	1.06	0.98	1.04	56MV/B080-14
CAP*4817A**	0.98	1.06	0.97	1.03	56MV/B080-14
CAP*4824A**	0.98	1.06	0.97	1.03	56MV/B080-14
CNPV*3617A**	0.95	1.08	0.96	1.05	56MV/B080-14
CNPV*4821A**	0.96	1.05	0.96	1.03	56MV/B080-14
CNPV*4821A**	0.98	1.06	0.97	1.03	56MV/B080-14
CNPV*4824A**	0.98	1.06	0.97	1.03	56MV/B080-14
CSPH*3612A**	0.97	1.07	0.97	1.04	56MV/B080-14
CSPH*4212A**	0.98	1.06	0.97	1.04	56MV/B080-14
CSPH*4812A**	0.98	1.06	0.97	1.03	56MV/B080-14
CAP*3621A**	0.95	1.06	0.96	1.05	56MV/B080-20
CAP*4821A**	0.96	1.05	0.96	1.04	56MV/B080-20
CAP*3617A**	0.99	1.06	0.98	1.04	56MV/B080-20
CAP*4817A**	0.98	1.05	0.97	1.03	56MV/B080-20
CAP*4824A**	0.98	1.05	0.97	1.03	56MV/B080-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B080-20
CNPV*4821A**	0.96	1.05	0.96	1.04	56MV/B080-20
CNPV*4821A**	0.98	1.05	0.97	1.03	56MV/B080-20
CNPV*4824A**	0.98	1.05	0.97	1.03	56MV/B080-20
CSPH*3612A**	0.97	1.06	0.97	1.03	56MV/B080-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B080-20
CSPH*4812A**	0.98	1.05	0.97	1.03	56MV/B080-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.05	0.96	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.97	1.03	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.97	1.03	56MV/B100-20
CSPH*3612A**	0.97	1.06	0.97	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.05	0.97	1.03	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.05	0.97	1.04	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.03	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100-20
CNPV*4824A**	0.98	1.05	0.98	1.04	56MV/B100-20
CSPH*3612A**	0.97	1.04	0.96	1.03	56MV/B100-20
CSPH*4212A**	0.98	1.05	0.97	1.04	56MV/B100-20
CSPH*4812A**	0.98	1.04	0.98	1.04	56MV/B100-20
CNPV*3621A**	0.95	1.07	0.96	1.05	56MV/B100-20
CNPV*4821A**	0.96	1.04	0.97	1.04	56MV/B100-20
CNPV*4821A**	0.98	1.05	0.98	1.04	56MV/B100

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HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
		-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)									
EDB °F (°C)	CFM	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys- tem KWt	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys. KWt						
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*							
25HNA648A31 Outdoor Section With FE4ANB008 Indoor Section – High Stage																									
65 (18.3)	1200	17.30	15.92	2.48	22.64	20.80	2.70	28.23	25.73	2.93	34.40	30.55	3.18	41.06	37.36	3.45	48.41	48.41	3.73	54.02	54.02	3.99	55.57	55.57	4.07
	1400	17.74	16.32	2.50	23.17	21.29	2.72	28.91	26.36	2.94	35.23	31.29	3.18	42.35	38.54	3.42	47.36	47.36	3.63	48.28	48.28	3.68	49.00	49.00	3.72
	1470	17.87	16.44	2.51	23.33	21.44	2.73	29.11	26.54	2.95	35.48	31.51	3.18	42.43	38.61	3.42	46.02	46.02	3.57	46.68	46.68	3.61	47.24	47.24	3.64
70 (21.1)	1600	18.10	16.65	2.53	23.60	21.69	2.75	29.45	26.85	2.96	35.87	31.86	3.19	42.36	38.55	3.41	43.65	43.65	3.47	44.06	44.06	3.49	44.40	44.40	3.52
	1200	16.19	14.89	2.50	21.59	19.84	2.74	27.16	24.76	2.98	33.25	29.54	3.24	39.81	36.23	3.53	47.24	47.24	3.82	54.15	54.15	4.14	56.63	56.63	4.27
	1400	16.63	15.30	2.53	22.12	20.33	2.76	27.80	25.35	3.00	34.08	30.26	3.24	41.01	37.32	3.51	47.50	47.50	3.77	49.36	49.36	3.86	50.26	50.26	3.90
75 (23.9)	1470	16.76	15.42	2.54	22.28	20.48	2.77	28.00	25.53	3.00	34.32	30.48	3.25	41.40	37.67	3.50	46.81	46.81	3.73	47.72	47.72	3.78	48.48	48.48	3.82
	1600	16.99	15.63	2.56	22.55	20.73	2.79	28.34	25.84	3.01	34.71	30.83	3.25	41.55	37.81	3.49	44.69	44.69	3.63	45.25	45.25	3.66	45.70	45.70	3.69
	1200	15.02	13.82	2.51	20.49	18.83	2.77	26.10	23.80	3.03	32.04	28.46	3.30	38.57	35.10	3.60	45.86	45.86	3.91	53.02	53.02	4.24	57.31	57.31	4.46
	1400	15.46	14.22	2.55	21.02	19.31	2.79	26.74	24.38	3.04	32.92	29.24	3.30	39.57	36.01	3.59	46.57	46.57	3.86	50.25	50.25	4.03	51.38	51.38	4.09
	1470	15.59	14.34	2.56	21.18	19.46	2.80	26.93	24.55	3.05	33.16	29.45	3.31	39.93	36.34	3.58	46.55	46.55	3.85	48.70	48.70	3.95	49.61	49.61	4.00
	1600	15.80	14.54	2.58	21.45	19.71	2.82	27.24	24.84	3.06	33.55	29.79	3.32	40.59	36.94	3.58	45.40	45.40	3.79	46.15	46.15	3.83	46.80	46.80	3.87

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES * F (°C)																							
EDB °F (°C)	CFM	7 (-13.9)			17 (-8.3)			27 (-2.8)			37 (2.8)			47 (8.3)			57 (13.9)			67 (19.4)						
		Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt	Capacity MBtuh Total	Integ*	Total Sys. KWt				
65 (18.3)	880	8.72	8.01	1.41	12.27	11.19	1.47	15.84	14.06	1.53	19.47	17.71	1.58	23.16	21.16	1.63	27.07	27.07	1.69	31.48	31.48	1.74				
	995	8.97	8.24	1.43	12.57	11.46	1.49	16.19	14.38	1.54	21.54	19.80	1.46	23.65	23.65	1.63	27.72	27.72	1.67	32.10	32.10	1.71				
	1050	9.08	8.34	1.44	12.70	11.58	1.50	16.34	14.51	1.55	20.06	18.25	1.59	23.85	23.85	1.63	28.04	28.04	1.67	32.33	32.33	1.70				
70 (21.1)	1200	9.37	8.61	1.48	13.04	11.89	1.54	16.73	14.86	1.58	20.50	18.66	1.61	24.38	24.38	1.64	28.83	28.83	1.67	32.52	32.52	1.69				
	880	7.77	7.14	1.43	11.40	10.39	1.50	15.02	13.34	1.57	18.67	16.99	1.63	22.40	22.40	1.69	26.22	26.22	1.75	30.63	30.63	1.80				
	995	8.01	7.36	1.46	11.70	10.67	1.52	15.37	13.65	1.58	19.09	17.38	1.63	22.89	22.89	1.68	26.85	26.85	1.73	31.28	31.28	1.78				
75 (23.9)	1050	8.11	7.46	1.47	11.83	10.78	1.53	15.53	13.79	1.59	19.27	17.54	1.64	23.09	23.09	1.69	27.11	27.11	1.73	31.52	31.52	1.77				
	1200	8.40	7.72	1.51	12.16	11.09	1.57	15.91	14.13	1.62	19.72	17.94	1.66	23.59	23.59	1.70	27.87	27.87	1.73	32.04	32.04	1.76				
	880	6.75	6.20	1.45	10.48	9.55	1.53	14.16	12.58	1.61	17.85	16.24	1.67	21.61	21.61	1.74	25.41	25.41	1.81	29.76	29.76	1.87				
	995	6.98	6.41	1.48	10.77	9.82	1.55	14.52	12.90	1.62	18.27	16.62	1.68	22.09	22.09	1.74	25.98	25.98	1.79	30.45	30.45	1.85				
	1050	7.08	6.50	1.49	10.89	9.93	1.56	14.67	13.03	1.63	18.44	16.78	1.69	22.30	22.30	1.74	26.23	26.23	1.79	30.70	30.70	1.84				
	1200	7.36	6.76	1.53	11.23	10.24	1.60	15.05	13.37	1.66	18.89	17.19	1.71	22.80	22.80	1.76	26.87	26.87	1.80	31.26	31.26	1.83				

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANB006	1.00	1.00	1.00	1.00		CAP**4817A**	1.02	1.06	0.99	1.03	58CV(A,X)090-16	CNPV**6024A**	1.00	1.03	0.99	1.02	58CV(A,X)135-22
FE4ANF005	1.00	1.02	0.99	1.01		CNPV*4821A**	1.00	1.06	0.98	1.03	58CV(A,X)090-16	CSPH**4812A**	1.00	1.05	0.99	1.03	58CV(A,X)135-22
FV4BNB006	0.98	0.99	1.00	1.00		CNPV*6024A**	1.00	1.04	0.99	1.02	58CV(A,X)090-16	CSPH**6012A**	1.01	1.03	0.99	1.02	58CV(A,X)135-22
FV4BNF005	1.01	1.03	0.99	1.01		CSPH*4812A**	1.00	1.06	0.98	1.03	58CV(A,X)090-16	CAP**4824A**	1.00	1.04	0.98	1.02	58CV(A,X)155-22
CAP**4817A**	1.01	1.06	1.06	1.16		CSPH*6012A**	1.01	1.04	0.99	1.03	58CV(A,X)090-16	CAP**6024A**	0.99	1.02	0.99	1.02	58CV(A,X)155-22
CAP**4821A**	1.01	1.07	1.07	1.18		CAP**4821A**	1.00	1.06	0.99	1.03	58CV(A,X)110-20	CNPV*4821A**	0.99	1.03	0.98	1.01	58CV(A,X)155-22
CAP**4824A**	1.01	1.07	1.07	1.18		CAP**6021A**	1.00	1.04	0.99	1.02	58CV(A,X)110-20	CNPV*6024A**	1.00	1.02	0.99	1.01	58CV(A,X)155-22
CAP**6021A**	0.97	1.05	1.07	1.16		CNPV*4821A**	1.00	1.06	0.99	1.03	58CV(A,X)110-20	CNPV*4824A**	0.99	1.03	0.98	1.01	58CV(A,X)155-22
CAP**6024A**	0.99	1.05	1.07	1.16		CNPV*6024A**	1.00	1.04	0.99	1.02	58CV(A,X)110-20	CNPV*6024A**	1.00	1.02	0.99	1.01	58CV(A,X)155-22
CNPV*4818A**	1.00	1.10	1.05	1.17		CNPV*4821A**	1.00	1.06	0.99	1.03	58CV(A,X)110-20	CSPH**4812A**	1.00	1.04	0.98	1.02	58CV(A,X)155-22
CNPV*4821A**	1.01	1.08	1.07	1.18		CSPH*4812A**	1.00	1.05	0.99	1.03	58CV(A,X)110-20	CSPH**6012A**	1.01	1.02	0.99	1.02	58CV(A,X)155-22
CNPV*6024A**	1.01	1.08	1.07	1.17		CSPH*6012A**	1.01	1.03	0.99	1.02	58CV(A,X)110-20	CAP**4821A**	1.00	1.07	0.99	1.05	58MVB080-20
CNPV*4821A**	1.01	1.08	1.07	1.18		CAP**4824A**	1.00	1.05	0.98	1.02	58CV(A,X)135-22	CAP**6021A**	1.00	1.05	0.99	1.03	58MVB080-20
CNPV*4824A**	1.01	1.08	1.07	1.18		CAP**6024A**	1.00	1.03	0.99	1.02	58CV(A,X)135-22	CNPV*4821A**	1.00	1.07	0.99	1.04	58MVB080-20
CNPV*6024A**	1.01	1.08	1.07	1.17		CNPV*4821A**	0.99	1.04	0.98	1.02	58CV(A,X)135-22	CNPV*6024A**	1.01	1.06	0.99	1.03	58MVB080-20
CSPH*4812A**	1.01	1.06	1.07	1.17		CNPV*6024A**	1.00	1.03	0.99	1.02	58CV(A,X)135-22	CNPV*4821A**	1.00	1.07	0.99	1.04	58MVB080-20
CSPH*6012A**	1.01	1.07	1.07	1.16		CNPV*4824A**	0.99	1.04	0.98	1.02	58CV(A,X)135-22	CSPH**4812A**	1.01	1.07	0.99	1.05	58MVB080-20

HEAT PUMP HEATING PERFORMANCE CONTINUED

25HNA648A31 Outdoor Section With FE4ANB006 Indoor Section

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
CSPH*6012A**	1.01	1.05	0.99	1.04	58MVB080-20
CAP**4821A**	1.00	1.06	0.98	1.03	58MVB100-20
CAP**6021A**	1.00	1.04	0.99	1.03	58MVB100-20
CNPH*4821A**	1.00	1.07	0.99	1.04	58MVB100-20
CNPH*6024A**	1.01	1.06	0.99	1.03	58MVB100-20
CNPV*4821A**	1.00	1.07	0.99	1.04	58MVB100-20
CSPH*4812A**	1.01	1.07	0.99	1.04	58MVB100-20
CSPH*6012A**	1.01	1.04	0.99	1.03	58MVB100-20
CAP**4824A**	1.00	1.06	0.98	1.04	58MVB120-20
CAP**6024A**	1.00	1.05	0.99	1.03	58MVB120-20
CNPH*4821A**	1.00	1.07	0.98	1.03	58MVB120-20
CNPH*6024A**	1.00	1.05	0.99	1.03	58MVB120-20
CNPV*4824A**	1.00	1.07	0.98	1.03	58MVB120-20
CNPV*6024A**	1.00	1.05	0.99	1.03	58MVB120-20
CSPH*4812A**	1.00	1.06	0.98	1.03	58MVB120-20
CSPH*6012A**	1.01	1.04	0.99	1.03	58MVB120-20
CNPV*4821A**	0.99	1.05	0.96	1.02	58VLR120-20
CNPV*4821A**	0.99	1.06	0.96	1.04	58VMR120-20

See notes on page 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
EDB ° F (° C)	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)		
		Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	
25HNA60A32 Outdoor Section With FE4ANB008 Indoor Section – High Stage																		
65 (18.3)	1500	21.33	19.62	3.09	27.94	25.67	3.39	34.63	31.58	37.0	42.17	37.45	4.03	50.25	45.73	4.41	58.57	
	1750	21.95	20.19	3.15	28.64	26.32	3.43	35.55	32.41	37.2	43.22	38.39	4.04	51.81	47.15	4.39	58.06	
	1835	22.14	20.36	3.17	28.85	26.51	3.45	35.83	32.67	37.3	43.52	38.65	4.05	51.91	47.24	4.39	58.84	
70 (21.1)	2000	22.47	20.67	3.21	29.23	26.86	3.48	36.34	33.13	37.6	44.05	39.12	4.07	51.89	47.22	4.39	54.24	
	1500	19.86	18.27	3.13	26.84	24.48	3.45	33.40	30.45	37.8	40.82	36.25	4.12	48.60	44.22	4.51	57.21	
	1750	20.49	18.85	3.19	27.36	25.14	3.50	34.20	31.18	38.1	41.85	37.17	4.14	50.28	45.75	4.50	57.50	
75 (23.9)	1835	20.67	19.02	3.21	27.57	25.33	3.51	34.45	31.41	38.2	42.14	37.43	4.14	50.63	46.07	4.50	57.23	
	2000	21.01	19.33	3.25	27.95	25.68	3.55	34.91	31.83	38.4	42.65	37.88	4.16	50.83	46.26	4.50	55.16	
	1500	18.28	16.81	3.16	25.25	23.21	3.51	32.13	29.29	38.5	39.29	34.90	4.21	47.05	42.82	4.61	55.73	
	1750	18.89	17.38	3.22	25.97	23.86	3.56	32.95	30.04	38.9	40.39	35.87	4.23	48.44	44.08	4.61	56.35	
	1835	19.10	17.57	3.24	26.18	24.06	3.58	33.19	30.26	39.0	40.77	36.21	4.24	48.96	44.55	4.61	56.35	
	2000	19.40	17.85	3.28	26.57	24.41	3.61	33.61	30.64	39.3	41.27	36.65	4.26	49.61	45.15	4.61	55.56	

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
EDB ° F (° C)	CFM	7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)				
		Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†	Capacity MBtuh	Total Sys. KW†			
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*			
25HNA60A32 Outdoor Section With FE4ANB006 Indoor Section – Low Stage																		
65 (18.3)	1100	14.03	12.89	2.13	19.69	17.86	2.28	25.13	22.32	2.41	30.44	27.70	2.54	35.59	32.86	2.68	2.89	
	1225	14.42	13.25	2.17	20.17	18.39	2.31	25.70	22.83	2.44	31.08	28.29	2.55	36.34	33.47	2.65	2.84	
	1330	14.76	13.56	2.21	20.57	18.76	2.34	26.14	23.21	2.46	31.56	28.72	2.57	36.92	33.89	2.66	2.82	
70 (21.1)	1500	15.29	14.05	2.28	21.17	19.30	2.41	26.79	23.80	2.52	32.27	29.37	2.61	37.92	34.87	2.75	2.78	
	1100	12.49	11.48	2.14	18.32	16.70	2.30	23.88	21.21	2.45	29.31	26.67	2.59	34.46	31.73	2.66	2.99	
	1225	12.87	11.83	2.18	18.80	17.14	2.33	24.45	21.71	2.48	29.95	27.26	2.61	35.20	32.50	2.73	2.94	
75 (23.9)	1330	13.19	12.12	2.22	19.18	17.49	2.37	24.88	22.10	2.50	30.44	27.70	2.63	35.76	32.74	2.74	2.93	
	1500	13.70	12.59	2.29	19.77	18.03	2.44	25.55	22.69	2.57	31.17	28.36	2.68	36.58	33.37	2.77	2.90	
	1100	10.90	10.01	2.15	16.88	15.39	2.32	22.57	20.05	2.48	28.11	25.58	2.64	33.37	30.79	2.79	3.08	
	1225	11.26	10.34	2.19	17.35	15.82	2.35	23.13	20.55	2.51	28.76	26.17	2.66	34.08	31.08	2.79	3.04	
	1330	11.55	10.62	2.22	17.72	16.15	2.39	23.57	20.93	2.54	29.25	26.62	2.68	34.60	31.40	2.81	3.03	
	1500	12.03	11.06	2.30	18.30	16.68	2.46	24.23	21.52	2.60	29.99	27.29	2.73	35.40	32.11	2.94	3.03	

Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	High Speed Cap.	Heating Indoor Model	Low Speed Cap.	Power	High Speed Cap.	Heating Indoor Model	Low Speed Cap.	Power	High Speed Cap.	Heating Indoor Model	Low Speed Cap.	Power	High Speed Cap.
*FE4ANB006	1.00	1.00	1.00	1.00		CNPH*6024A**	0.99	1.04	1.03	56CV(A)110-20	0.99	1.03	1.03	CNPH*6024A**	0.99	1.05	1.05
FV4BNB006	0.99	1.00	0.98	1.00		CSPH*6012A**	1.02	1.04	1.02	56CV(A)110-20	0.99	1.02	1.02	CNPH*6024A**	1.00	1.05	1.05
CAP**6021A**	1.01	1.06	1.03	1.11		CAP**6024A**	1.00	1.03	1.02	56CV(A)135-22	0.99	1.02	1.02	CSPH*6012A**	1.00	1.05	1.05
CAP**6024A**	0.99	1.05	1.06	1.12		CNPH*6024A**	1.02	1.05	1.02	56CV(A)135-22	0.99	1.02	1.02	CAP**6021A**	1.01	1.07	1.07
CNPH*6024A**	1.03	1.08	1.06	1.13		CNPH*6024A**	1.02	1.05	1.02	56CV(A)135-22	0.99	1.02	1.02	CNPH*6024A**	1.03	1.03	1.03
CNPH*6024A**	1.03	1.08	1.06	1.13		CSPH*6012A**	1.02	1.03	1.02	56CV(A)135-22	0.99	1.02	1.02	CNPH*6024A**	1.03	1.04	1.04
CSPH*6012A**	1.03	1.06	1.06	1.12		CAP**6024A**	1.00	1.03	1.02	56CV(A)155-22	0.99	1.02	1.02	CSPH*6012A**	1.03	1.03	1.03
CAP**6021A**	1.00	1.04	0.99	1.02		CNPH*6024A**	1.02	1.04	1.01	56CV(A)155-22	0.98	1.01	1.01	CAP**6021A**	1.01	1.07	1.07
CAP**6021A**	1.01	1.05	0.99	1.02		CNPH*6024A**	1.02	1.04	1.01	56CV(A)155-22	0.98	1.01	1.01	CNPH*6024A**	1.03	1.03	1.03
CNPH*6024A**	1.02	1.06	0.99	1.02		CSPH*6012A**	1.02	1.02	1.01	56CV(A)155-22	0.99	1.01	1.01	CNPH*6024A**	1.03	1.03	1.03

* Tested combination.
† 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.
‡ 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.
NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
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, forward-swept blade 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 AHRI 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 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 are pressure tested and the outdoor units are leak tested.
- 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 Puron® (R-410A) refrigerant, 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, forward swept blade, discharging air upward.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

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2 TO 5 NOMINAL TONS

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated ball bearings.
- Shafts will be corrosion resistant.
- Forward swept fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

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 back-seating shutoff valve with sweat connections, vapor-line back-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, and reversing valve.
- Unit will be equipped with high-pressure switch, loss-of-charge switch, and filter drier for Puron® refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

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

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