

**25HBA4
Base 14 Heat Pump
with Puron® Refrigerant
1 – 1/2 to 5 Nominal Tons (Sizes 18 to 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 25HBA 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.

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 14 SEER/ 10.8 - 12.0 EER 8.0 - 8.5 HSPF (nominal)
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 72 dBA

Comfort

- System supports Thermidstat™ or standard thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

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 -20°F/-28.9°C) with accessory kit

Warranty

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

MODEL NUMBER NOMENCLATURE

1 N	2 N	3 A	4 A	5 A/N	6 N	7 N	8 N	9 A/N	10 A/N	11 A/N	12 N	13 N
2	5	H	B	A	4	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	B=Base	A = Puron	4=14 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.**

STANDARD FEATURES

Feature	18	24	30	36	42	48	60	61
Puron Refrigerant	X	X	X	X	X	X	X	X
Maximum SEER Rating	15	15	15	15	15	15	13.5	15
Scroll Compressor	X	X	X	X	X	X	X	X
Dense Wire Coil Guard	X	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X	X
Low Ambient capability with Kit	X	X	X	X	X	X	X	X
Suction Line Accumulator	X	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X	X
Loss of Charge Switch	X	X	X	X	X	X	X	X

PHYSICAL DATA

UNIT SIZE SERIES	18–31	24–31	30–31	36–32	42–31	48–32	60–31	61–30
Operating Weight lb (kg)	148 (67.13)	162 (73.48)	203 (92.08)	172 (78.02)	246 (111.58)	240 (108.62)	279 (126.55)	321 (145.60)
Shipping Weight lb (kg)	174 (78.93)	189 (85.73)	235 (106.59)	207 (93.89)	278 (126.10)	274 (124.28)	311 (141.07)	355 (161.03)
Compressor Type	Scroll							
REFRIGERANT	Puron® (R-410A)							
Control	TXV (Puron Hard Shutoff)							
Charge lb (kg)	5.1 (2.31)	5.9 (2.68)	7.6 (2.72)	6.8 (3.08)	8.4 (3.81)	11.4 (5.17)	12.35 (5.60)	16.2 (7.35)
COND FAN	Propeller Type, Direct Drive							
Air Discharge	Vertical							
Air Qty (CFM)	2196	2614	2614	3472	3810	4046	4046	4046
Motor HP	1/10	1/10	1/10	1/8	1/5	1/4	1/4	1/4
Motor RPM	1100	1100	1100	800	800	800	800	800
COND COIL								
Face Area (Sq ft)	14.77	15.09	25.87	17.60	25.15	17.60	22.63	30.18
Fins per In.	25	20	20	20	20	20	20	20
Rows	1	1	1	1	1	2	2	2
Circuits	4	5	6	6	6	8	8	10
VALVE CONNECT. (In.) ID								
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8							
REFRIGERANT TUBES* (In.) OD								
Vapor (0–80 Ft Tube Length)	5/8	5/8	3/4	3/4	7/8	7/8	1–1/8	1–1/8
Liquid (0–80 Ft Tube Length)	3/8							

* For tubing sets between 80 and 200 ft. (24.38 and 60.96 m) horizontal or 20 ft. (6.09 m) vertical differential, consult the Longline Guideline.

Note: See unit Installation Instruction for proper installation.

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

LONG LINE APPLICATION: An application is considered "Long line" when the total equivalent tubing length exceeds 80 ft. (24.38 m) or when there is more than 20 ft. (6.09 m) vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250 ft. (76.2 m). The maximum vertical separation is 200 ft. (60.96 m)

when outdoor unit is above indoor unit, and 80 ft. (24.38 m) when the outdoor unit is below the indoor unit. Refer to Accessory Usage Guideline below for required accessories. See Longline Application Guideline for required piping and system modifications. Also, refer to the table below for the acceptable vapor tube diameters based on the total length to minimize the cooling capacity loss.

Unit Nominal Size (Btuh)	Acceptable Vapor Line Diameters (In.) OD	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)										
		Standard Application			Long Line Application Requires Accessories							
		25 (7.62)	50 (15.24)	80 (24.38)	80+ (24.38+)	100 (30.48)	125 (38.10)	150 (45.72)	175 (53.34)	200 (60.96)	225 (68.58)	250 (76.2)
18,000 1–Stage Puron HP	1/2	1	2	3	3	4	6	7	8	9	10	12
	5/8	0	0	1	1	1	1	2	2	3	3	3
24,000 1–Stage Puron HP	5/8	0	1	1	1	2	3	3	4	4	5	6
	3/4	0	0	0	0	0	1	1	1	1	1	2
30,000 1–Stage Puron HP	5/8	1	2	3	3	3	4	5	6	7	8	9
	3/4	0	0	1	1	1	1	2	2	2	3	3
	7/8	0	0	0	0	0	1	1	1	1	1	1
36,000 1–Stage Puron HP	5/8	1	2	4	4	5	6	7	9	10	11	13
	3/4	0	0	1	1	1	2	2	3	3	4	4
	7/8	0	0	0	0	0	1	1	1	1	2	2
42,000 1–Stage Puron HP	3/4	0	1	2	2	2	3	4	4	5	6	6
	7/8	0	0	1	1	1	1	2	2	2	3	3
48,000 1–Stage Puron HP	3/4	0	1	2	2	3	4	5	5	6	7	8
	7/8	0	0	1	1	1	2	2	2	3	3	4
60,000 1–Stage Puron HP	3/4	1	2	4	4	5	6	7	9	10	11	12
	7/8	0	1	2	2	2	3	4	4	5	5	6
	1–1/8	0	0	0	0	1	1	1	1	1	1	2

Standard Length = 80 ft. (24.38 m) or less total equivalent length

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

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

ACCESSORIES

ORDER NUMBER	DESCRIPTION	18–31	24–31	30–31	36–32	42–31	48–32	60–31	61–30
HC34GE239	BALL BEARING MOTOR	X							
HC34GE240	BALL BEARING MOTOR		X	X					
HC38GE228	BALL BEARING MOTOR					X			
HC40GE226	BALL BEARING MOTOR				X				
HC40GE228	BALL BEARING MOTOR						X	X	X
KAACH1201AAA	CRANKCASE HTR					X	S	S	S
KAACH1401AAA	CRANKCASE HTR	X	X	X	X				
KSACY0101AAA	CYCLE PROTECTOR	X	X	X	X	X	X	X	X
KAAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X	X	X	X	X
KSAHS1701AAA	HARD START	X	X	X	X	X	X	X	X
KHAIR0101AAA	ISOLATION RELAY	X	X	X	X	X	X	X	X
KSALA0301410	LOW AMBIENT PSW	X	X	X	X	X	X	X	X
KSALA0601AAA†	MOTORMASTER 230V	X	X	X	X	X	X	X	X
KHAOT0201SEC	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X	X
KHAOT0301FST	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X	X
KHALS0401LLS	SOLENOID VALVE	X	X	X	X	X	X	X	X
KHASS0601AAA*	SNOW STAND RACK	X	X	X	X	X	X	X	X
KSASH0601COP	SOUND BLKT	X	X	X	X	X	X		
KSASH2101COP	SOUND BLKT							X	X
KAACS0201PTC	START ASSIST PTC	X	X	X	X	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X	X	X	X	X
KAATD0101TDR	TIME DELAY RELAY	X	X	X	X	X	X	X	X
KSATX0201PUR	TXV PURON HSO	X	X	X					
KSATX0301PUR	TXV PURON HSO				X	X			
KSATX0401PUR	TXV PURON HSO						X		
KSATX0501PUR	TXV PURON HSO							X	X

* Available through RCD.

x = Accessory S = Standard

† Required accessories include ball bearing fan motor, compressor start assist (CAP / Relay), crankcase heater, evaporator freeze stat, isolation relay, hard shut-off TXV or liquid line solenoid valve.

ACCESSORY THERMOSTATS

THERMOSTAT / SUBBASE PKG.	DESCRIPTION
TSTATCCPRH01–B*	Thermidistat™ Control — Non–Programmable/Programmable Thermostat with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)
TSTATCCPHH01–B*	HybridHeat™ (Dual Fuel) Thermostat — Auto Changeover, 7–Day Programmable, °F/°C, Includes Outdoor Sensor (TSTATXXSEN01–B)
TSTATCCPHP01–B	Thermostat — Auto Changeover, 7–Day Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool
TSTATCCNHP01–C	Thermostat — Auto Changeover, Non–Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool
TSTATCCSHP01	Standard Programmable Thermostat—Manual Changeover, 5–2 Day Programmable, °F/°C, 1–Stage Heat/ 1–Stage Cool
TSTATCCBHP01*–B	Builder's Thermostat — Heat Pump, Non–Programmable, °F/°C, 2–Stage Heat, 1–Stage Cool, Manual Changeover
TSTATXXSEN01–B**	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non–Programmable Thermostat
TSTATXXBP01	Backplate for Programmable Thermostat and Thermidistat™ Control
TSTATXXSBP01	Backplate for Standard Programmable Thermostat
TSTATXXBBP01	Backplate for Builder's Thermostat
TSTATXXCNV10†	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack
TB–PHP–01	Base Series Programmable HP Stat
TB–NHP–01	Base Series Non–programmable HP Stat

* Do not use in zoning heat pump applications.

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

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

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

ACCESSORY USAGE GUIDELINE

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

* 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 for Low-Ambient Controller MotorMaster® Control only. Hard Shut-Off TXV is standard on new Carrier evaporator coils and fan coils.

Accessory Description and Usage (Listed Alphabetically)

1. Ball-Bearing Fan Motor

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

Usage Guideline:

Required on all units when using MotorMaster®

2. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

Required for reciprocating compressors in the following applications:

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

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

- Long line
- Low ambient cooling

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

3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

4. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

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

5. Evaporator Freeze Thermostat

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

Usage Guideline:

Required when low ambient kit has been added.

6. Isolation Relay

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

Usage Guideline:

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

7. Liquid-Line Solenoid Valve (LLS)

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

Usage Guideline:

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

8. Low-Ambient Pressure Switch Kit

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

Usage Guideline:

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

9. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at 100°F ±10°F (37.8°C ± 6.5°C).

Usage Guideline:

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

Suggested for all commercial applications.

Accessory Description and Usage (Listed Alphabetically) - CONTINUED

10. 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.

11. Outdoor Thermostat

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

Usage Guideline:

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

12. Secondary Outdoor Thermostat

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

Usage Guideline:

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

13. Snow Stand

Coated wire rack which supports unit 18 in. (457.2 mm) above mounting pad to allow for drainage from unit base.

Usage Guideline:

Suggested in the following applications:

- Heat pump installations in heavy snowfall areas.
- Heat pump installations in snow drift locations.
- Heat pump installations in areas of prolonged subfreezing temperatures.
- All commercial installations.

14. 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. (4.577 m) to quiet areas, bedrooms, etc.

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

15. 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.

16. Time-Delay Relay

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

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

Usage Guideline:

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

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH (FT)‡	MAX LENGTH (FT)‡	MAX FUSE** or BRK AMPS
		MAX	MIN	LRA	RLA			60° C	75° C	60° C	75° C	
18–31	208/230/1	253	197	48.0	9.0	0.75	12.0	14	14	66	62	20
24–31				58.3	12.8	0.75	16.8	14	14	47	45	25
30–31				77.0	14.1	0.75	21.4	12	12	58	56	30
36–32				79.0	16.7	0.9	21.7	12	12	58	55	35
42–31				109.0	19.9	1.2	26.0	10	10	77	73	40
48–32				117.0	21.8	1.2	28.4	8	8	109	104	50
60–31				134.0	26.3	1.2	34.1	8	8	91	87	50
61–30				134.0	26.7	1.2	34.5	8	10	90	55	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 (ANSI/NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (ANSI/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 (ANSI/NFPA 70).

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

** Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2001 requirements of ASHRAE Standards 90.1

25HBA4

SOUND POWER

UNIT SIZE	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18–31	75	54.0	63.0	68.5	71.5	68.0	63.5	57.0
24–31	75	54.5	64.0	69.0	69.5	67.5	64.0	58.0
30–31	74	52.0	62.5	66.5	68.5	65.0	63.5	59.0
36–32	72	55.0	62.0	63.5	66.0	64.0	61.5	54.0
42–31	77	55.5	60.0	63.5	71.5	65.0	62.5	59.0
48–32	77	58.0	65.5	68.5	72.0	66.5	60.5	53.0
60–31	76	58.5	63.0	68.0	70.5	66.5	64.5	59.5
61–30	76	58.0	62.5	67.5	71.0	66.0	63.0	58.5

SOUND POWER WITH SOUND SHIELD

UNIT SIZE	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18–31	74	53.5	63.0	68.0	70.0	67.5	63.0	56.5
24–31	74	54.0	63.5	69.0	69.0	67.5	63.5	57.5
30–31	74	51.5	62.0	66.5	67.5	64.5	62.0	57.5
36–32	70	54.5	62.0	63.5	64.5	63.0	60.0	51.5
42–31	75	55.0	60.5	63.5	69.0	64.5	61.5	56.0
48–32	74	58.0	64.5	69.0	68.5	66.0	60.0	53.0
60–31	75	58.5	62.5	67.5	69.0	64.5	61.5	56.0
61–30	74	58.0	62.0	67.0	68.5	64.5	61.0	55.0

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE–SERIES	REQUIRED SUBCOOLING °F (°C)	HEATING PISTON SIZE
18–31	10 (5.6)	42
24–31	12 (6.7)	46
30–31	11 (6.1)	55
36–32	9 (5.0)	57
42–31	11 (6.1)	61
48–32	11 (6.1)	63
60–31	12 (6.7)	76
61–30	11 (6.1)	76

DIMENSIONS

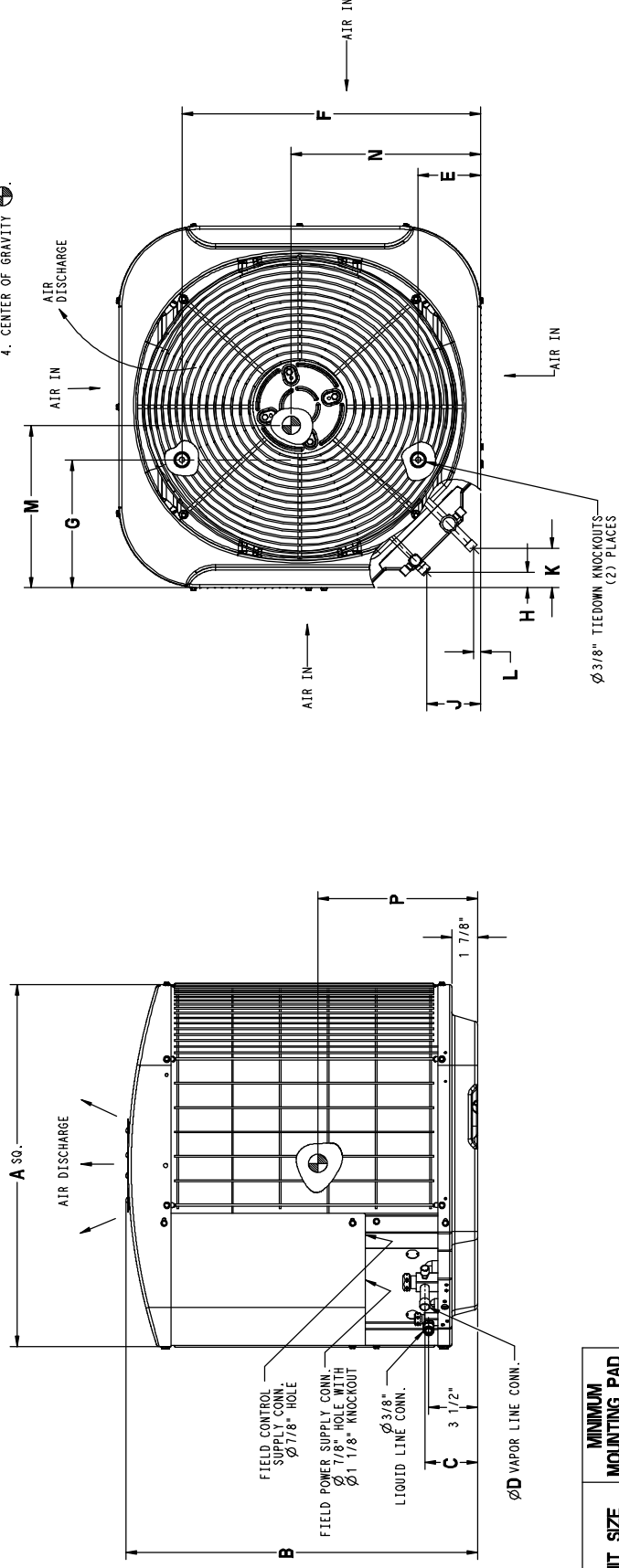
UNIT	SERIES	ELECTRICAL CHARACTERISTICS		A	B	C	D	E	F	G	H	J	K	L	M	N	P	OPERATING WEIGHT	SHIPPING WEIGHT	SHIPPING DIMENSIONS (L x W x H)	
25HBA418	1	X	0	0	25 3/4"	31 13/16"	3 3/4"	5/8"	4 7/16"	21 1/4"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	10 1/4"	10 3/4"	14"	146#	169#	26 7/8" X 30 1/16" X 35 15/16"
25HBA424	1	X	0	0	31 3/16"	28 15/16"	3 3/4"	5/8"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	15 5/8"	16 3/4"	14 1/2"	162#	189#	32 3/8" X 35 1/2" X 32 9/16"
25HBA430	1	X	0	0	31 3/16"	45 15/16"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	20 1/4"	17 3/8"	18 3/4"	203#	235#	32 3/8" X 35 1/2" X 49 9/16"
25HBA430	2	X	0	0	31 3/16"	39 1/8"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	20 1/4"	17 3/8"	17"			32 3/8" X 35 1/2" X 42 3/4"
25HBA436	1	X	0	0	31 3/16"	45 15/16"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	17"	14 3/4"	20 3/8"	207#	239#	32 3/8" X 35 1/2" X 49 9/16"
25HBA436	2	X	0	0	35"	28 15/16"	3 3/4"	3/4"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 13/16"	1 1/2"	15 1/2"	15 3/4"	12 1/2"	172#	207#	36 1/8" X 39 5/16" X 32 9/16"
25HBA442	1	X	0	0	35"	39 1/8"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	17 1/4"	19 1/8"	15 3/4"	246#	278#	36 1/8" X 39 5/16" X 42 3/4"
25HBA448	1	X	0	0	35"	32 5/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	19"	19"	14 1/2"	263#	293#	36 1/8" X 39 5/16" X 35 15/16"
25HBA448	2	X	0	0	35"	28 15/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	19"	19"	13"	240#	273#	36 1/8" X 39 5/16" X 32 9/16"
25HBA460	1	X	0	0	35"	35 3/4"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	19"	19"	19"	279#	311#	36 1/8" X 39 5/16" X 39 3/8"
25HBA461	0	X	0	0	35"	45 15/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	1 1/8"	3 13/16"	2 15/16"	5/8"	16"	19"	22"	321#	355#	36 1/8" X 39 5/16" X 49 9/16"

X = YES
0 = NO

208-230-160	230-160	208/230-360	460-360
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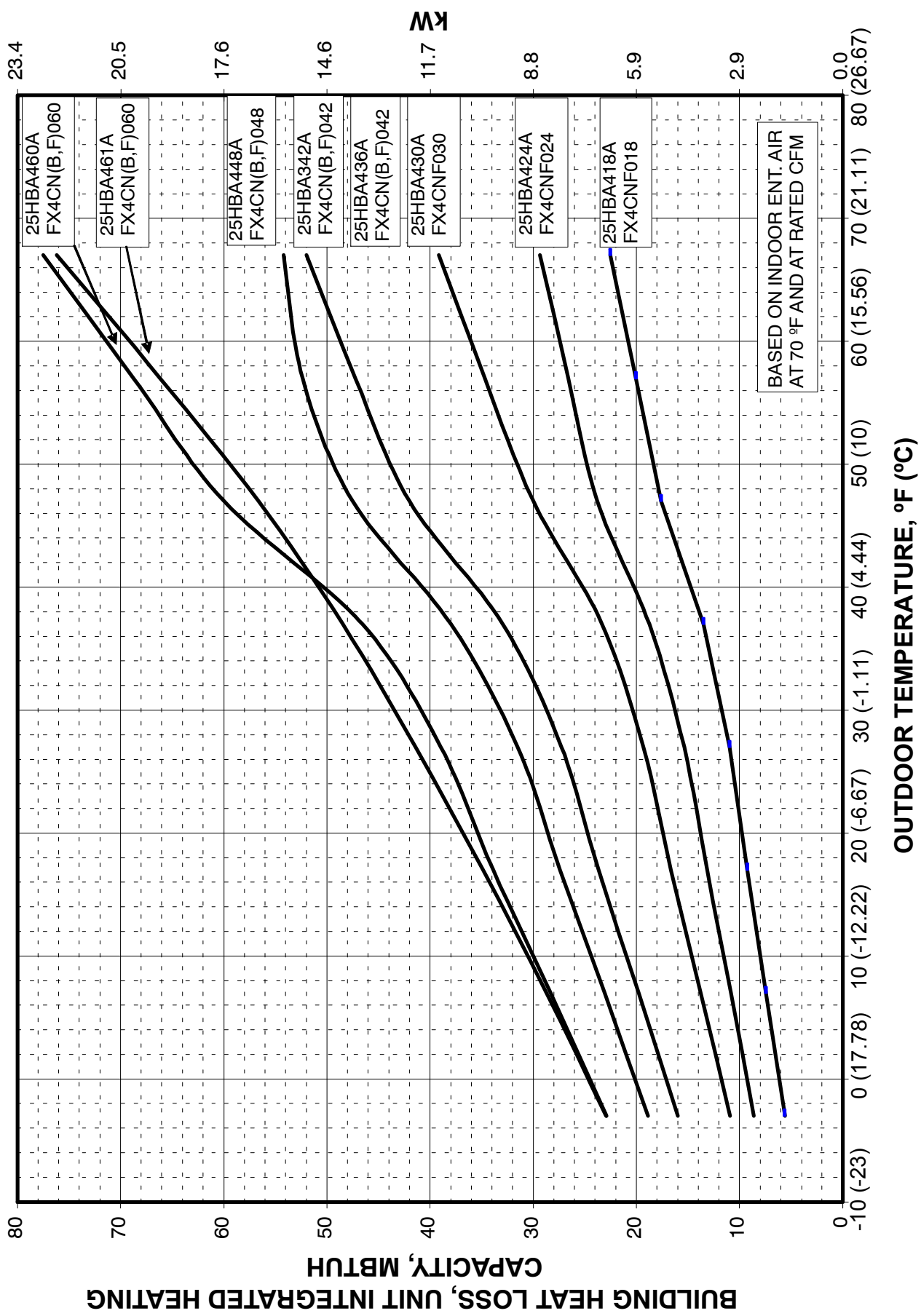
NOTES:

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 35° F, MAX. 125° F.
3. SERIES DESIGNATION IS THE 13TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18	26" X 26"
24,30,36-1	31 1/2" X 31 1/2"
36-2,42,48,60,61	35" X 35"

25HBA3 BALANCE POINT WORKSHEET



COMBINATION RATINGS

Unit Size — Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model		
			Cooling				Heating							
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF			
E Capacity	E COP	H Capacity					H COP							
18—31	*FX4CNF018	17,500	TDR&TXV	14.50		11.7	17,600	3.58	10,500	2.36	8.0			
	FF1ENP018	17,100	TDR&TXV	12.85		10.50	18,000	3.36	11,000	2.28	7.7			
	FF1ENP024	17,400	TDR&TXV	13.05		10.70	17,900	3.42	11,100	2.30	7.7			
	FV4BNF002	17,700	TDR&TXV	14.50		12.00	17,200	3.62	10,500	2.46	8.2			
	FX4CNF024	17,700	TDR&TXV	15.00		12.00	17,400	3.64	10,500	2.40	8.2			
	FY4ANF018	17,100	TDR&TXV	13.00		10.50	18,000	3.34	10,900	2.22	7.7			
	FY4ANF024	17,200	TDR&TXV	13.00		10.50	17,900	3.36	11,000	2.24	7.6			
	CAP**1814A**	17,000	TDR&TXV	14.50		11.70	17,100	3.32	10,200	2.28	7.7	58CV(A,X)070—12		
	CAP**1814A**	17,000	TXV			13.00	10.50	17,900	3.30	10,900	2.22	7.7		
	CAP**2414A**	17,300	TDR&TXV	14.50		11.70	17,300	3.48	10,300	2.34	7.8	58CV(A,X)070—12		
	CAP**2414A**	17,400	TXV			13.00	10.80	18,000	3.46	11,000	2.28	7.7		
	CAP**2417A**	17,400	TDR&TXV	15.00		12.00	17,200	3.52	10,300	2.36	7.8	58CV(A,X)090—16		
	CAP**2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.50	10,300	2.34	7.9	58MVB060—14		
	CAP**2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.50	10,300	2.34	7.9	58UVB060—14		
	CAP**2417A**	17,400	TXV			13.00	10.80	18,000	3.46	11,000	2.28	7.7		
	CNPF*2418A**	17,400	TXV			13.00	10.80	18,000	3.52	11,000	2.28	7.8		
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,400	3.52	10,300	2.36	7.8	58CV(A,X)070—12		
	CNPH*2417A**	17,400	TDR&TXV	14.50		11.70	17,200	3.56	10,300	2.36	7.9	58CV(A,X)090—16		
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,400	3.54	10,300	2.36	7.9	58MVB040—14		
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.54	10,300	2.36	7.9	58MVB060—14		
	CNPH*2417A**	17,400	TDR&TXV	14.50		11.70	17,400	3.56	10,300	2.36	7.9	58MVB080—14		
	CNPH*2417A**	17,400	TXV			13.00	10.80	18,000	3.52	11,000	2.28	7.8		
	CNPV*1814A**	17,000	TDR&TXV	14.50		11.70	17,100	3.46	10,300	2.32	7.7	58CV(A,X)070—12		
	CNPV*1814A**	17,000	TXV			13.00	10.80	17,900	3.46	10,900	2.28	7.7		
	CNPV*2414A**	17,300	TDR&TXV	14.50		11.70	17,300	3.52	10,300	2.36	7.8	58CV(A,X)070—12		
	CNPV*2414A**	17,400	TXV			13.00	10.80	18,000	3.52	11,000	2.28	7.8		
	CNPV*2417A**	17,400	TDR&TXV	14.50		11.70	17,200	3.56	10,300	2.36	7.9	58CV(A,X)090—16		
	CNPV*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.54	10,300	2.36	7.9	58MVB060—14		
	CNPV*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.54	10,300	2.36	7.9	58UVB060—14		
	CNPV*2417A**	17,400	TXV			13.00	10.80	18,000	3.52	11,000	2.28	7.8		
	CSPH*2412A**	17,300	TDR&TXV	14.50		11.70	17,300	3.54	10,300	2.36	7.9	58CV(A,X)070—12		
	CSPH*2412A**	17,300	TDR&TXV	15.00		12.00	17,300	3.56	10,300	2.36	7.9	58CV(A,X)090—16		
	CSPH*2412A**	17,400	TDR&TXV	14.50		11.70	17,300	3.56	10,300	2.36	7.9	58MVB040—14		
	CSPH*2412A**	17,400	TDR&TXV	15.00		12.00	17,300	3.56	10,300	2.36	7.9	58MVB060—14		
	CSPH*2412A**	17,400	TDR&TXV	14.50		11.70	17,300	3.56	10,300	2.36	7.9	58MVB080—14		
	CSPH*2412A**	17,400	TXV			13.00	10.80	17,800	3.50	11,000	2.30	7.8		
	24—31	*FX4CNF024	23,000	TDR&TXV	14.00		11.30	23,800	3.70	14,700	2.58	8.5		
		FE4ANF002	23,200	TDR&TXV	14.50		11.70	23,200	3.78	14,500	2.62	8.5		
		FE4ANF003	23,400	TDR&TXV	15.00		11.70	23,000	3.76	14,400	2.64	8.5		
		FF1ENP024	22,600	TDR&TXV	13.00		10.80	24,000	3.50	14,900	2.44	8.2		
		FF1ENP030	22,800	TDR&TXV	13.00		10.40	24,200	3.54	15,200	2.46	8.0		
		FV4BNF002	23,200	TDR&TXV	14.50		11.70	23,200	3.78	14,500	2.62	8.5		
		FV4BNF003	23,200	TDR&TXV	15.00		12.00	23,000	3.76	14,400	2.64	8.5		
		FX4CNF030	23,400	TDR&TXV	14.50		11.40	23,600	3.80	14,700	2.64	8.5		
		FY4ANF024	22,600	TDR&TXV	13.00		10.50	24,000	3.52	15,100	2.46	8.2		
		FY4ANF030	23,000	TDR&TXV	13.20		10.60	24,000	3.60	15,100	2.50	8.4		
		CAP**2414A**	22,600	TDR&TXV	14.00		11.50	23,400	3.58	14,400	2.54	8.3	58CV(A,X)070—12	
		CAP**2414A**	22,800	TXV			13.00	10.50	24,400	3.58	15,200	2.48	8.3	
		CAP**2417A**	22,800	TDR&TXV	14.50		11.70	23,400	3.62	14,300	2.58	8.4	58CV(A,X)090—16	
		CAP**2417A**	22,800	TDR&TXV	14.50		11.70	23,400	3.60	14,400	2.56	8.3	58MVB060—14	
		CAP**2417A**	22,800	TDR&TXV	14.50		11.70	23,400	3.60	14,400	2.56	8.3	58UVB060—14	
CAP**2417A**		22,800	TXV			13.00	10.50	24,400	3.58	15,200	2.48	8.3		
CAP**3014A**		23,000	TDR&TXV	14.50		11.70	23,000	3.62	14,400	2.56	8.4	58CV(A,X)070—12		
CAP**3014A**		23,000	TXV			13.00	10.60	23,400	3.52	15,200	2.50	8.3		
CAP**3017A**		23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.60	8.5	58CV(A,X)090—16		
CAP**3017A**		23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.4	58MVB060—14		
CAP**3017A**		23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.4	58UVB060—14		
CAP**3017A**		23,000	TXV			13.00	10.60	23,400	3.52	15,200	2.50	8.3		
CNPF*2418A**		22,800	TXV			13.00	10.50	24,400	3.66	15,200	2.50	8.4		
CNPH*2417A**		22,600	TDR&TXV	14.00		11.50	23,400	3.64	14,500	2.56	8.4	58CV(A,X)070—12		
CNPH*2417A**		22,800	TDR&TXV	14.50		11.60	23,400	3.68	14,400	2.58	8.5	58CV(A,X)090—16		
CNPH*2417A**		22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58CV(A,X)110—20		

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
E Capacity	E COP	H Capacity					H COP					
24–31	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58CV(A,X)135–22
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58CV(A,X)155–22
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58MVB040–14
	CNPH*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.66	14,500	2.58	8.4	58MVB060–14
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58MVB080–14
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.66	14,500	2.58	8.5	58MVB080–20
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.58	8.5	58MVB100–20
	CNPH*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.64	14,500	2.56	8.4	58MVB120–20
	CNPH*2417A**	22,800	TXV		13.00	10.50	24,400	3.66	15,200	2.50	8.4	
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.4	58CV(A,X)070–12
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.68	14,400	2.60	8.5	58CV(A,X)090–16
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.60	8.5	58CV(A,X)110–20
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.60	8.5	58CV(A,X)135–22
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.68	14,400	2.60	8.5	58CV(A,X)155–22
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.60	8.5	58MVB040–14
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.5	58MVB060–14
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.58	8.5	58MVB080–14
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.58	8.5	58MVB080–20
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.66	14,400	2.60	8.5	58MVB100–20
	CNPH*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.4	58MVB120–20
	CNPH*3017A**	23,000	TXV		13.00	10.60	23,400	3.52	15,200	2.50	8.3	
	CNPV*2414A**	22,600	TDR&TXV	14.00		11.50	23,400	3.64	14,500	2.56	8.4	58CV(A,X)070–12
	CNPV*2414A**	22,800	TXV		13.00	10.50	24,400	3.66	15,200	2.50	8.4	
	CNPV*2417A**	22,800	TDR&TXV	14.50		11.50	23,400	3.68	14,400	2.58	8.5	58CV(A,X)090–16
	CNPV*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.66	14,500	2.58	8.4	58MVB060–14
	CNPV*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.66	14,500	2.58	8.4	58UVB060–14
	CNPV*2417A**	22,800	TXV		13.00	10.50	24,400	3.66	15,200	2.50	8.4	
	CNPV*3014A**	23,000	TDR&TXV	14.50		11.70	23,000	3.62	14,400	2.56	8.4	58CV(A,X)070–12
	CNPV*3014A**	23,000	TXV		13.00	10.60	23,400	3.52	15,200	2.50	8.3	
	CNPV*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.68	14,400	2.60	8.5	58CV(A,X)090–16
	CNPV*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.5	58MVB060–14
	CNPV*3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.58	8.5	58UVB060–14
	CNPV*3017A**	23,000	TXV		13.00	10.60	23,400	3.52	15,200	2.50	8.3	
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.60	23,400	3.68	14,500	2.56	8.5	58CV(A,X)070–12
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.70	23,400	3.72	14,500	2.58	8.5	58CV(A,X)090–16
	CSPH*2412A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,500	2.58	8.5	58CV(A,X)110–20
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.70	23,400	3.72	14,500	2.58	8.5	58CV(A,X)135–22
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.70	23,400	3.72	14,500	2.58	8.5	58CV(A,X)155–22
	CSPH*2412A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,500	2.58	8.5	58MVB040–14
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.70	23,400	3.70	14,500	2.58	8.5	58MVB060–14
	CSPH*2412A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,500	2.58	8.5	58MVB080–14
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.60	23,400	3.70	14,500	2.58	8.5	58MVB080–20
	CSPH*2412A**	22,800	TDR&TXV	14.50		11.70	23,400	3.72	14,500	2.58	8.6	58MVB100–20
	CSPH*2412A**	22,800	TDR&TXV	14.00		11.50	23,400	3.68	14,500	2.56	8.5	58MVB120–20
	CSPH*2412A**	22,800	TXV		13.00	10.60	24,200	3.66	15,300	2.52	8.5	
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.62	14,400	2.56	8.4	58CV(A,X)070–12
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.66	14,400	2.60	8.5	58CV(A,X)090–16
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.64	14,400	2.58	8.5	58CV(A,X)110–20
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.66	14,400	2.58	8.5	58CV(A,X)135–22
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.66	14,400	2.60	8.5	58CV(A,X)155–22
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.64	14,500	2.58	8.5	58MVB040–14
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.64	14,400	2.58	8.4	58MVB060–14
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.64	14,500	2.58	8.5	58MVB080–14
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.64	14,400	2.58	8.4	58MVB080–20
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.66	14,500	2.58	8.5	58MVB100–20
	CSPH*3012A**	23,000	TDR&TXV	14.50		11.70	22,800	3.62	14,400	2.56	8.4	58MVB120–20
	CSPH*3012A**	23,000	TXV		13.00	10.60	23,200	3.52	15,200	2.50	8.3	
*FX4CNF030	29,600	TDR&TXV	14.00		10.8	31,400	3.56	20,800	2.64	8.5		
FF1ENP030	29,000	TDR&TXV	13.00		10.00	31,800	3.38	21,200	2.52	8.2		
FF1ENP036	29,600	TDR&TXV	13.00		10.20	32,000	3.44	21,400	2.56	8.3		
FV4BNF002	29,600	TDR&TXV	14.00		11.00	31,000	3.54	20,600	2.64	8.4		
FV4BNF003	29,800	TDR&TXV	14.50		11.20	30,800	3.54	20,400	2.66	8.5		
FV4BNF005	30,600	TDR&TXV	15.00		11.60	30,800	3.76	20,600	2.76	8.9		
FX4CN(B,F)036	30,000	TDR&TXV	14.00		10.90	31,600	3.60	21,000	2.66	8.6		
FY4ANF030	29,200	TDR&TXV	13.00		10.10	32,000	3.44	21,400	2.54	8.3		
FY4ANF036	29,600	TDR&TXV	13.00		10.00	32,200	3.44	21,600	2.54	8.3		
CAP**3014A**	29,200	TDR&TXV	13.50		10.80	30,800	3.40	20,600	2.60	8.2	58CV(A,X)070–12	
CAP**3014A**	29,600	TXV		13.00	10.10	32,000	3.44	21,400	2.56	8.3		

See notes on page 18

25HBA4

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model	
			Cooling				Heating						
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF		
							E Capacity	E COP	H Capacity	H COP			
30–31	CSPH*3012A**	29,200	TDR&TXV	13.50		10.80	30,800	3.44	20,600	2.60	8.3	58MVB080–14	
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.44	20,600	2.62	8.3	58MVB080–20	
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.3	58MVB100–20	
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.44	20,400	2.62	8.3	58MVB120–20	
	CSPH*3012A**	29,600	TXV		13.00	10.20	32,000	3.48	21,400	2.58	8.4		
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	31,000	3.56	20,600	2.66	8.5	58CV(A,X)070–12	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.20	31,000	3.58	20,600	2.68	8.6	58CV(A,X)090–16	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.20	31,000	3.60	20,600	2.68	8.6	58CV(A,X)110–20	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.30	31,000	3.60	20,600	2.68	8.6	58CV(A,X)135–22	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.30	31,000	3.60	20,600	2.70	8.6	58CV(A,X)155–22	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	31,000	3.54	20,600	2.66	8.5	58MVB040–14	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	31,000	3.54	20,600	2.66	8.5	58MVB060–14	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	31,000	3.56	20,600	2.66	8.5	58MVB080–14	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	31,000	3.56	20,600	2.66	8.5	58MVB080–20	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.20	31,000	3.56	20,600	2.68	8.5	58MVB100–20	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.20	31,000	3.54	20,600	2.66	8.5	58MVB120–20	
	CSPH*3612A**	29,600	TXV		13.00	10.30	32,200	3.60	21,600	2.62	8.6		
	36–32	*FX4CN(B,F)036	34,200	TDR&TXV	14.00		11.5	34,800	3.72	21,400	2.60	8.1	
		FF1ENP036	33,600	TDR&TXV	13.00		10.50	35,000	3.50	22,000	2.48	7.7	
FV4BN(B,F)003		34,000	TDR&TXV	14.50		12.00	34,400	3.70	21,000	2.62	8.1		
FV4BN(B,F)005		35,400	TDR&TXV	15.00		12.00	31,600	3.72	21,000	2.72	8.3		
FV4BNF002		33,800	TDR&TXV	14.00		11.50	34,800	3.68	21,200	2.58	8.0		
FX4CN(B,F)042		34,800	TDR&TXV	14.00		11.50	33,800	3.70	21,600	2.64	8.2		
FY4ANF036		33,600	TDR&TXV	13.00		10.50	35,400	3.54	22,000	2.48	7.8		
FY4ANF042		34,400	TDR&TXV	13.00		10.80	34,200	3.56	22,200	2.52	7.9		
CAP**3614A**		33,600	TDR&TXV	14.00		11.50	34,400	3.56	21,200	2.54	7.8	58CV(A,X)070–12	
CAP**3614A**		33,400	TXV		13.00	10.80	35,000	3.52	21,800	2.48	7.7		
CAP**3617A**		33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.58	7.9	58CV(A,X)090–16	
CAP**3617A**		33,600	TDR&TXV	14.00		11.50	34,400	3.60	21,000	2.56	7.9	58MVB060–14	
CAP**3617A**		33,600	TDR&TXV	14.00		11.50	34,400	3.60	21,000	2.56	7.9	58UVB060–14	
CAP**3617A**		33,800	TXV		13.00	10.80	35,200	3.56	22,000	2.50	7.8		
CAP**3621A**		33,800	TDR&TXV	14.00		11.50	34,200	3.66	21,000	2.60	8.0	58CV(A,X)110–20	
CAP**3621A**		33,600	TDR&TXV	14.00		11.50	34,400	3.58	21,000	2.54	7.8	58MVB080–14	
CAP**3621A**		33,600	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.56	7.9	58MVB080–20	
CAP**3621A**		33,800	TDR&TXV	14.00		11.50	34,200	3.62	21,000	2.58	7.9	58MVB100–20	
CAP**3621A**		33,600	TDR&TXV	14.00		11.50	34,400	3.58	21,000	2.54	7.8	58UVB080–14	
CAP**3621A**		33,600	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.56	7.9	58UVB080–20	
CAP**3621A**		33,800	TDR&TXV	14.00		11.50	34,200	3.62	21,000	2.58	7.9	58UVB100–20	
CAP**3621A**		33,800	TXV		13.00	10.80	35,200	3.56	22,000	2.50	7.8		
CAP**4221A**		34,000	TDR&TXV	14.00		11.50	34,200	3.68	21,000	2.62	8.1	58CV(A,X)110–20	
CAP**4221A**		33,800	TDR&TXV	14.00		11.50	34,200	3.62	21,200	2.56	7.9	58MVB080–14	
CAP**4221A**		33,800	TDR&TXV	14.00		11.50	34,200	3.64	21,000	2.58	8.0	58MVB080–20	
CAP**4221A**		34,000	TDR&TXV	14.00		11.50	34,200	3.66	21,000	2.60	8.0	58MVB100–20	
CAP**4221A**		33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.58	7.9	58UVB080–14	
CAP**4221A**		33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.56	7.9	58UVB080–20	
CAP**4221A**		33,800	TDR&TXV	14.00		11.50	34,200	3.62	21,000	2.58	7.9	58UVB100–20	
CAP**4221A**		34,000	TXV		13.00	10.80	34,800	3.58	22,000	2.52	7.9		
CAP**4224A**		34,000	TDR&TXV	14.50		12.00	34,000	3.70	21,000	2.62	8.1	58CV(A,X)135–22	
CAP**4224A**		34,200	TDR&TXV	14.50		12.00	34,000	3.72	20,800	2.64	8.1	58CV(A,X)155–22	
CAP**4224A**		33,800	TDR&TXV	14.00		11.50	34,200	3.62	21,000	2.58	7.9	58MVB040–14	
CAP**4224A**		34,000	TDR&TXV	14.00		11.50	34,000	3.66	21,000	2.60	8.0	58MVB120–20	
CAP**4224A**		34,000	TDR&TXV	14.00		11.50	34,000	3.66	21,000	2.60	8.0	58UVB120–20	
CAP**4224A**	34,000	TXV		13.00	10.80	34,800	3.58	22,000	2.52	7.9			
CNPF*3618A**	33,600	TXV			13.00	10.80	35,400	3.56	22,000	2.50	7.8		
CNPH*3617A**	33,400	TDR&TXV	14.00		11.50	34,600	3.56	21,200	2.54	7.8	58CV(A,X)070–12		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,400	3.60	21,000	2.56	7.9	58CV(A,X)090–16		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.62	21,000	2.56	7.9	58CV(A,X)110–20		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.56	7.9	58CV(A,X)135–22		
CNPH*3617A**	33,800	TDR&TXV	14.00		11.50	34,400	3.64	21,000	2.58	7.9	58CV(A,X)155–22		
CNPH*3617A**	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,200	2.52	7.8	58MVB040–14		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58MVB060–14		
CNPH*3617A**	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,200	2.52	7.7	58MVB080–14		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58MVB080–20		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.56	7.8	58MVB100–20		
CNPH*3617A**	33,600	TDR&TXV	14.00		11.50	34,400	3.58	21,000	2.56	7.8	58MVB120–20		
CNPH*3617A**	33,600	TXV		13.00	10.80	35,400	3.56	22,000	2.50	7.8			
CNPH*4221A**	33,800	TDR&TXV	14.00		11.50	34,400	3.64	21,200	2.58	8.0	58CV(A,X)070–12		
CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.68	21,000	2.60	8.0	58CV(A,X)090–16		
CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.68	21,000	2.60	8.0	58CV(A,X)110–20		

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
E Capacity	E COP	H Capacity					H COP					
36–32	CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.70	21,000	2.62	8.1	58CV(A,X)135–22
	CNPH*4221A**	34,200	TDR&TXV	14.50		12.00	34,200	3.72	21,000	2.62	8.1	58CV(A,X)155–22
	CNPH*4221A**	33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,200	2.56	7.9	58MVB040–14
	CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.66	21,000	2.58	8.0	58MVB060–14
	CNPH*4221A**	33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,200	2.56	7.9	58MVB080–14
	CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.58	8.0	58MVB080–20
	CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.60	8.0	58MVB100–20
	CNPH*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.66	21,000	2.60	8.0	58MVB120–20
	CNPH*4221A**	34,000	TXV		13.00	10.80	35,000	3.60	22,000	2.52	7.9	
	CNPV*3617A**	33,600	TDR&TXV	14.00		11.50	34,400	3.60	21,000	2.56	7.9	58CV(A,X)090–16
	CNPV*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58MVB060–14
	CNPV*3617A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58UVB060–14
	CNPV*3617A**	33,600	TXV		13.00	10.80	35,400	3.56	22,000	2.50	7.8	
	CNPV*3621A**	33,600	TDR&TXV	14.00		11.50	34,400	3.62	21,000	2.56	7.9	58CV(A,X)110–20
	CNPV*3621A**	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,200	2.52	7.8	58MVB080–14
	CNPV*3621A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58MVB080–20
	CNPV*3621A**	33,600	TDR&TXV	14.00		11.50	34,600	3.60	21,000	2.56	7.9	58MVB100–20
	CNPV*3621A**	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,200	2.52	7.8	58UVB080–14
	CNPV*3621A**	33,600	TDR&TXV	14.00		11.50	34,600	3.58	21,000	2.54	7.8	58UVB080–20
	CNPV*3621A**	33,600	TDR&TXV	14.00		11.50	34,600	3.60	21,000	2.56	7.9	58UVB100–20
	CNPV*3621A**	33,600	TXV		13.00	10.80	35,400	3.56	22,000	2.50	7.8	
	CNPV*4221A**	34,000	TDR&TXV	14.00		11.50	34,200	3.68	21,000	2.60	8.0	58CV(A,X)110–20
	CNPV*4221A**	33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,200	2.56	7.9	58MVB080–14
	CNPV*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.58	8.0	58MVB080–20
	CNPV*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.60	8.0	58MVB100–20
	CNPV*4221A**	33,800	TDR&TXV	14.00		11.50	34,400	3.62	21,200	2.56	7.9	58UVB080–14
	CNPV*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.58	8.0	58UVB080–20
	CNPV*4221A**	34,000	TDR&TXV	14.00		11.50	34,400	3.66	21,200	2.60	8.0	58UVB100–20
	CNPV*4221A**	34,000	TXV		13.00	10.80	35,000	3.60	22,000	2.52	7.9	
	CSPH*3612A**	34,200	TDR&TXV	14.00		11.50	34,200	3.68	21,200	2.60	8.1	58CV(A,X)070–12
	CSPH*3612A**	34,400	TDR&TXV	14.50		12.00	34,000	3.72	21,200	2.64	8.1	58CV(A,X)090–16
	CSPH*3612A**	34,400	TDR&TXV	14.50		12.00	34,000	3.74	21,200	2.64	8.2	58CV(A,X)110–20
	CSPH*3612A**	34,400	TDR&TXV	14.50		12.00	34,000	3.74	21,000	2.64	8.2	58CV(A,X)135–22
	CSPH*3612A**	34,600	TDR&TXV	14.50		12.00	33,800	3.76	21,000	2.66	8.2	58CV(A,X)155–22
	CSPH*3612A**	34,200	TDR&TXV	14.00		11.50	34,200	3.66	21,200	2.60	8.0	58MVB040–14
	CSPH*3612A**	34,400	TDR&TXV	14.00		11.50	34,000	3.70	21,200	2.62	8.1	58MVB060–14
	CSPH*3612A**	34,200	TDR&TXV	14.00		11.50	34,200	3.66	21,400	2.60	8.0	58MVB080–14
	CSPH*3612A**	34,400	TDR&TXV	14.00		11.50	34,000	3.70	21,200	2.62	8.1	58MVB080–20
	CSPH*3612A**	34,400	TDR&TXV	14.00		11.50	34,000	3.72	21,200	2.62	8.1	58MVB100–20
	CSPH*3612A**	34,400	TDR&TXV	14.00		11.50	34,000	3.70	21,200	2.62	8.1	58MVB120–20
	CSPH*3612A**	34,600	TXV		13.20	11.00	34,600	3.64	22,200	2.56	8.0	
	CSPH*4212A**	34,400	TDR&TXV	14.00		11.50	33,800	3.70	21,200	2.62	8.1	58CV(A,X)070–12
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,600	3.74	21,200	2.66	8.2	58CV(A,X)090–16
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,600	3.76	21,200	2.66	8.2	58CV(A,X)110–20
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,600	3.76	21,200	2.66	8.2	58CV(A,X)135–22
	CSPH*4212A**	34,800	TDR&TXV	15.00		12.00	33,600	3.80	21,000	2.68	8.3	58CV(A,X)155–22
	CSPH*4212A**	34,400	TDR&TXV	14.00		11.50	33,800	3.70	21,200	2.62	8.1	58MVB040–14
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,800	3.72	21,200	2.64	8.2	58MVB060–14
	CSPH*4212A**	34,400	TDR&TXV	14.00		11.50	33,800	3.68	21,200	2.60	8.1	58MVB080–14
	CSPH*4212A**	34,600	TDR&TXV	14.00		11.50	33,800	3.72	21,200	2.64	8.2	58MVB080–20
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,800	3.74	21,200	2.64	8.2	58MVB100–20
	CSPH*4212A**	34,600	TDR&TXV	14.50		12.00	33,800	3.74	21,200	2.64	8.2	58MVB120–20
	CSPH*4212A**	34,800	TXV		13.20	11.00	34,200	3.64	22,200	2.58	8.0	
42–31	*FX4CN(B,F)042	41,500	TDR&TXV	14.00		11.20	42,000	3.70	25,800	2.56	8.4	
	FE4ANB006	42,500	TDR&TXV	15.00		12.40	39,500	3.68	25,800	2.56	8.4	
	FE4ANF003	40,000	TDR&TXV	14.00		11.50	41,000	3.42	25,400	2.40	7.9	
	FE4ANF005	42,000	TDR&TXV	14.50		12.10	40,500	3.64	25,800	2.50	8.3	
	FV4BNB006	42,500	TDR&TXV	15.00		12.40	39,500	3.68	25,800	2.56	8.4	
	FV4BNF003	40,000	TDR&TXV	14.00		11.50	41,000	3.42	25,600	2.40	7.9	
	FV4BNF005	42,000	TDR&TXV	14.50		12.10	40,500	3.64	25,800	2.50	8.3	
	FX4CN(B,F)048	42,500	TDR&TXV	14.50		11.70	40,000	3.76	25,600	2.66	8.7	
	FY4ANF042	40,500	TDR&TXV	13.00		10.40	42,000	3.54	26,400	2.46	8.1	
	FY4ANF048	41,500	TDR&TXV	13.20		10.60	41,000	3.54	26,400	2.50	8.2	
	CAP**4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	58CV(A,X)110–20
	CAP**4221A**	39,500	TDR&TXV	13.50		10.90	41,000	3.42	25,400	2.46	7.9	58MVB080–14
	CAP**4221A**	40,000	TDR&TXV	13.50		11.00	41,000	3.46	25,200	2.48	8.0	58MVB080–20
	CAP**4221A**	40,000	TDR&TXV	13.50		11.20	41,000	3.46	25,200	2.50	8.0	58MVB100–20
	CAP**4221A**	39,500	TDR&TXV	13.50		10.90	41,000	3.42	25,400	2.46	7.9	58UVB080–14
	CAP**4221A**	40,000	TDR&TXV	13.50		11.00	41,000	3.46	25,200	2.48	8.0	58UVB080–20
	CAP**4221A**	40,000	TDR&TXV	13.50		11.20	41,000	3.46	25,200	2.50	8.0	58UVB100–20
	CAP**4221A**	40,500	TXV		13.00	10.40	42,500	3.48	26,200	2.46	8.0	

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltae, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating				HSPF	
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp			
							E Capacity	E COP	H Capacity	H COP		
42 – 31	CAP**4224A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	58CV(A,X)135 – 22
	CAP**4224A**	40,000	TDR&TXV	14.00		11.50	41,000	3.52	25,000	2.54	8.2	58CV(A,X)155 – 22
	CAP**4224A**	40,000	TDR&TXV	13.50		11.00	41,000	3.42	25,200	2.48	8.0	58MVB040 – 14
	CAP**4224A**	40,000	TDR&TXV	14.00		11.20	41,000	3.46	25,000	2.50	8.0	58MVB120 – 20
	CAP**4224A**	40,000	TDR&TXV	14.00		11.20	41,000	3.46	25,000	2.50	8.0	58UVB120 – 20
	CAP**4224A**	40,500	TXV		13.00	10.40	42,500	3.48	26,200	2.46	8.0	
	CAP**4817A**	40,000	TDR&TXV	14.00		11.40	40,000	3.66	25,400	2.58	8.4	58CV(A,X)090 – 16
	CAP**4817A**	39,500	TDR&TXV	14.00		11.30	40,000	3.64	25,400	2.56	8.4	58MVB060 – 14
	CAP**4817A**	39,500	TDR&TXV	14.00		11.30	40,000	3.64	25,400	2.56	8.4	58UVB060 – 14
	CAP**4817A**	40,000	TXV		13.00	10.70	41,000	3.62	26,400	2.54	8.4	
	CAP**4821A**	41,000	TDR&TXV	14.00		11.40	41,000	3.66	25,200	2.58	8.4	58CV(A,X)110 – 20
	CAP**4821A**	40,500	TDR&TXV	13.50		11.40	41,000	3.58	25,400	2.52	8.2	58MVB080 – 14
	CAP**4821A**	40,500	TDR&TXV	13.50		11.20	41,000	3.62	25,400	2.54	8.3	58MVB080 – 20
	CAP**4821A**	40,500	TDR&TXV	14.00		11.30	41,000	3.64	25,400	2.56	8.4	58MVB100 – 20
	CAP**4821A**	40,500	TDR&TXV	13.50		11.40	41,000	3.58	25,400	2.52	8.2	58UVB080 – 14
	CAP**4821A**	40,500	TDR&TXV	13.50		11.20	41,000	3.62	25,400	2.54	8.3	58UVB080 – 20
	CAP**4821A**	40,500	TDR&TXV	14.00		11.30	41,000	3.64	25,400	2.56	8.4	58UVB100 – 20
	CAP**4821A**	41,000	TXV		13.00	10.60	42,000	3.60	26,400	2.52	8.3	
	CAP**4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	58CV(A,X)135 – 22
	CAP**4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.68	25,200	2.60	8.5	58CV(A,X)155 – 22
	CAP**4824A**	40,500	TDR&TXV	13.50		11.10	41,000	3.58	25,400	2.52	8.3	58MVB040 – 14
	CAP**4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	58MVB120 – 20
	CAP**4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	58UVB120 – 20
	CAP**4824A**	41,000	TXV		13.00	10.60	42,000	3.60	26,400	2.52	8.3	
	CNPF*4818A**	40,000	TXV		13.00	10.50	41,000	3.58	26,200	2.50	8.2	
	CNPH*4221A**	40,000	TDR&TXV	13.50		11.10	41,000	3.46	25,200	2.50	8.0	58CV(A,X)070 – 12
	CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	58CV(A,X)090 – 16
	CNPH*4221A**	40,000	TDR&TXV	14.00		11.50	41,000	3.56	25,000	2.56	8.2	58CV(A,X)110 – 20
	CNPH*4221A**	40,000	TDR&TXV	14.50		11.60	41,000	3.56	24,800	2.58	8.2	58CV(A,X)135 – 22
	CNPH*4221A**	40,000	TDR&TXV	14.50		11.60	41,000	3.56	24,800	2.58	8.2	58CV(A,X)155 – 22
	CNPH*4221A**	39,500	TDR&TXV	13.50		11.20	41,000	3.46	25,200	2.50	8.0	58MVB040 – 14
	CNPH*4221A**	39,500	TDR&TXV	14.00		11.30	41,000	3.50	25,000	2.52	8.1	58MVB060 – 14
	CNPH*4221A**	39,500	TDR&TXV	13.50		11.10	41,000	3.46	25,200	2.50	8.0	58MVB080 – 14
	CNPH*4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	58MVB080 – 20
	CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	58MVB100 – 20
	CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	58MVB120 – 20
	CNPH*4221A**	40,500	TXV		13.00	10.40	42,500	3.50	26,200	2.46	8.0	
	CNPH*4821A**	40,500	TDR&TXV	13.50		11.10	41,000	3.60	25,400	2.54	8.3	58CV(A,X)070 – 12
	CNPH*4821A**	41,000	TDR&TXV	14.00		11.40	41,000	3.66	25,200	2.58	8.4	58CV(A,X)090 – 16
	CNPH*4821A**	41,000	TDR&TXV	14.00		11.50	41,000	3.68	25,200	2.58	8.4	58CV(A,X)110 – 20
	CNPH*4821A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	58CV(A,X)135 – 22
	CNPH*4821A**	41,000	TDR&TXV	14.50		11.70	41,000	3.68	25,000	2.60	8.5	58CV(A,X)155 – 22
	CNPH*4821A**	40,500	TDR&TXV	13.50		11.20	41,000	3.58	25,400	2.54	8.2	58MVB040 – 14
	CNPH*4821A**	40,500	TDR&TXV	14.00		11.30	41,000	3.62	25,400	2.56	8.3	58MVB060 – 14
	CNPH*4821A**	40,500	TDR&TXV	13.50		11.10	41,000	3.58	25,400	2.52	8.2	58MVB080 – 14
	CNPH*4821A**	40,500	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	58MVB080 – 20
	CNPH*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	58MVB100 – 20
	CNPH*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.3	58MVB120 – 20
	CNPH*4821A**	41,000	TXV		13.00	10.60	42,000	3.64	26,400	2.52	8.3	
	CNPV*4221A**	40,000	TDR&TXV	14.50		11.50	41,000	3.56	25,000	2.56	8.2	58CV(A,X)110 – 20
	CNPV*4221A**	39,500	TDR&TXV	13.50		11.10	41,000	3.46	25,200	2.50	8.0	58MVB080 – 14
	CNPV*4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	58MVB080 – 20
	CNPV*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.1	58MVB100 – 20
	CNPV*4221A**	39,500	TDR&TXV	13.50		11.10	41,000	3.46	25,200	2.50	8.0	58UVB080 – 14
	CNPV*4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	58UVB080 – 20
	CNPV*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.1	58UVB100 – 20
	CNPV*4221A**	40,500	TXV		13.00	10.40	42,500	3.50	26,200	2.46	8.0	
	CNPV*4821A**	41,000	TDR&TXV	14.00		11.50	41,000	3.68	25,200	2.58	8.4	58CV(A,X)110 – 20
	CNPV*4821A**	40,500	TDR&TXV	13.50		11.10	41,000	3.58	25,400	2.52	8.2	58MVB080 – 14
	CNPV*4821A**	40,500	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	58MVB080 – 20
	CNPV*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	58MVB100 – 20
	CNPV*4821A**	40,500	TDR&TXV	13.50		11.10	41,000	3.58	25,400	2.52	8.2	58UVB080 – 14
	CNPV*4821A**	40,500	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	58UVB080 – 20
	CNPV*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	58UVB100 – 20
	CNPV*4821A**	41,000	TXV		13.00	10.60	42,000	3.64	26,400	2.52	8.3	

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size — Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
E Capacity	E COP	H Capacity					H COP					
42—31	CNPV*4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	58CV(A,X)135—22
	CNPV*4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.68	25,000	2.60	8.5	58CV(A,X)155—22
	CNPV*4824A**	40,500	TDR&TXV	13.50		11.20	41,000	3.58	25,400	2.54	8.2	58MVB040—14
	CNPV*4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.3	58MVB120—20
	CNPV*4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.3	58UVB120—20
	CNPV*4824A**	41,000	TXV		13.00	10.60	42,000	3.64	26,400	2.52	8.3	
	CSPH*4212A**	40,000	TDR&TXV	13.50		11.10	41,000	3.58	25,600	2.52	8.2	58CV(A,X)070—12
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.64	25,400	2.56	8.4	58CV(A,X)090—16
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.58	8.4	58CV(A,X)110—20
	CSPH*4212A**	40,000	TDR&TXV	14.50		11.50	41,000	3.68	25,200	2.58	8.4	58CV(A,X)135—22
	CSPH*4212A**	40,000	TDR&TXV	14.50		11.60	41,000	3.68	25,200	2.60	8.4	58CV(A,X)155—22
	CSPH*4212A**	39,500	TDR&TXV	13.50		11.10	41,000	3.58	25,400	2.52	8.2	58MVB040—14
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.30	41,000	3.62	25,400	2.54	8.3	58MVB060—14
	CSPH*4212A**	40,000	TDR&TXV	13.50		11.10	41,000	3.56	25,600	2.52	8.2	58MVB080—14
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	58MVB080—20
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.30	41,000	3.62	25,400	2.56	8.3	58MVB100—20
	CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.62	25,200	2.56	8.3	58MVB120—20
	CSPH*4212A**	40,500	TXV		13.00	10.70	42,500	3.64	26,400	2.52	8.3	
	CSPH*4812A**	40,500	TDR&TXV	13.50		11.10	41,000	3.62	25,600	2.54	8.3	58CV(A,X)070—12
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.40	41,000	3.68	25,400	2.58	8.4	58CV(A,X)090—16
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.40	41,000	3.70	25,400	2.58	8.5	58CV(A,X)110—20
	CSPH*4812A**	40,500	TDR&TXV	14.50		11.60	41,000	3.72	25,200	2.60	8.5	58CV(A,X)135—22
	CSPH*4812A**	40,500	TDR&TXV	14.50		11.60	41,000	3.72	25,200	2.60	8.5	58CV(A,X)155—22
	CSPH*4812A**	40,500	TDR&TXV	13.50		11.20	41,000	3.62	25,600	2.54	8.3	58MVB040—14
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.66	25,400	2.56	8.4	58MVB060—14
	CSPH*4812A**	40,500	TDR&TXV	13.50		11.10	41,000	3.60	25,600	2.52	8.3	58MVB080—14
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.66	25,400	2.56	8.4	58MVB080—20
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.66	25,400	2.56	8.4	58MVB100—20
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.56	8.4	58MVB120—20
	CSPH*4812A**	41,000	TXV		13.00	10.70	42,000	3.68	26,400	2.54	8.4	
	*FX4CN(B,F)048	48,000	TDR&TXV	14.00		12.00	47,500	3.68	29,800	2.62	8.2	
	FE4AN(B,F)005	47,500	TDR&TXV	14.50		12.50	47,000	3.68	29,000	2.64	8.2	
	FE4ANB006	48,000	TDR&TXV	15.00		12.50	46,500	3.78	29,000	2.70	8.2	
	FV4BN(B,F)005	47,500	TDR&TXV	14.50		12.50	47,000	3.68	29,000	2.64	8.2	
	FV4BNB006	48,000	TDR&TXV	15.00		12.50	46,500	3.78	29,000	2.70	8.2	
	FX4CN(B,F)060	48,000	TDR&TXV	14.50		12.50	46,000	3.72	29,800	2.68	8.2	
FY4ANB060	48,000	TDR&TXV	13.50		11.50	46,000	3.54	30,400	2.56	8.0		
FY4ANF048	47,500	TDR&TXV	13.00		11.00	48,000	3.54	30,400	2.52	8.0		
CAP**4817A**	46,500	TDR&TXV	14.00		11.50	48,000	3.60	29,400	2.56	8.0	58CV(A,X)090—16	
CAP**4817A**	46,500	TXV		13.00	11.00	48,000	3.58	29,800	2.54	8.0		
CAP**4821A**	46,500	TDR&TXV	14.00		11.50	47,500	3.58	29,200	2.56	8.0	58CV(A,X)110—20	
CAP**4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.54	29,400	2.54	7.7	58MVB080—20	
CAP**4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.56	29,200	2.54	7.7	58MVB100—20	
CAP**4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.56	29,200	2.54	7.7	58UVB100—20	
CAP**4821A**	47,000	TXV		13.00	11.00	48,000	3.62	30,200	2.54	8.0		
CAP**4824A**	46,500	TDR&TXV	14.00		12.00	47,500	3.62	29,000	2.60	8.0	58CV(A,X)135—22	
CAP**4824A**	46,500	TDR&TXV	14.00		12.00	47,500	3.66	29,000	2.60	8.0	58CV(A,X)155—22	
CAP**4824A**	46,000	TDR&TXV	14.00		11.50	47,500	3.56	29,200	2.56	7.7	58MVB120—20	
CAP**4824A**	46,000	TDR&TXV	14.00		11.50	47,500	3.56	29,200	2.56	7.7	58UVB120—20	
CAP**4824A**	47,000	TXV		13.00	11.00	47,500	3.62	30,200	2.54	8.0		
CAP**6021A**	47,500	TDR&TXV	14.50		12.00	46,500	3.62	29,200	2.62	8.0	58CV(A,X)110—20	
CAP**6021A**	47,500	TDR&TXV	14.00		12.00	46,500	3.56	29,400	2.58	8.0	58MVB080—20	
CAP**6021A**	47,500	TDR&TXV	14.00		12.00	46,500	3.58	29,400	2.60	8.0	58MVB100—20	
CAP**6021A**	47,500	TDR&TXV	14.00		12.00	46,500	3.56	29,400	2.58	8.0	58UVB080—20	
CAP**6021A**	47,500	TDR&TXV	14.00		12.00	46,500	3.58	29,400	2.60	8.0	58UVB100—20	
CAP**6021A**	48,000	TXV		13.50	11.50	45,500	3.52	30,200	2.58	8.0		
CAP**6024A**	47,500	TDR&TXV	14.50		12.00	46,500	3.62	29,200	2.62	8.0	58CV(A,X)135—22	
CAP**6024A**	47,500	TDR&TXV	14.50		12.50	46,500	3.66	29,000	2.64	8.2	58CV(A,X)155—22	
CAP**6024A**	47,500	TDR&TXV	14.00		12.00	46,500	3.58	29,200	2.58	8.0	58MVB120—20	
CAP**6024A**	47,500	TDR&TXV	14.00		12.00	46,500	3.58	29,200	2.58	8.0	58UVB120—20	
CAP**6024A**	48,000	TXV		13.50	11.50	45,500	3.52	30,200	2.58	8.0		
CNPF*4818A**	46,000	TXV		13.00	11.00	48,000	3.42	29,600	2.50	7.7		
CNPH*4821A**	46,500	TDR&TXV	14.00		11.50	48,000	3.56	29,200	2.56	7.7	58CV(A,X)090—16	
CNPH*4821A**	46,500	TDR&TXV	14.00		12.00	48,000	3.58	29,200	2.58	8.0	58CV(A,X)110—20	
CNPH*4821A**	46,500	TDR&TXV	14.00		12.00	47,500	3.60	29,000	2.60	8.0	58CV(A,X)135—22	
CNPH*4821A**	46,500	TDR&TXV	14.00		12.00	47,500	3.62	29,000	2.60	8.0	58CV(A,X)155—22	
CNPH*4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.52	29,400	2.54	7.7	58MVB080—20	

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltage, Series	Indoor Model	Cooling Capa- city	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Stand- ard Rat- ing	SEE R TDR	EER	High Temp		Low Temp		HSP F	
E Capa- city	E COP	H Capa- city					H COP					
48–32	CNPH*4821A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58MVB100–20
	CNPH*4821A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58MVB120–20
	CNPH*4821A**	47,000	TXV		13.00	11.00	48,000	3.62	30,000	2.54	8.0	
	CNPH*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.62	29,200	2.60	8.0	58CV(A,X)090–16
	CNPH*6024A**	47,500	TDR&TXV	14.00		12.00	47,500	3.64	29,200	2.60	8.0	58CV(A,X)110–20
	CNPH*6024A**	47,500	TDR&TXV	14.50		12.00	47,500	3.66	29,000	2.62	8.0	58CV(A,X)135–22
	CNPH*6024A**	47,500	TDR&TXV	14.50		12.50	47,000	3.68	29,000	2.64	8.2	58CV(A,X)155–22
	CNPH*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.58	29,400	2.58	8.0	58MVB080–20
	CNPH*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.60	29,200	2.58	8.0	58MVB100–20
	CNPH*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.60	29,200	2.58	8.0	58MVB120–20
	CNPH*6024A**	48,000	TXV		13.50	11.50	48,000	3.60	30,200	2.56	8.0	
	CNPV*4821A**	46,500	TDR&TXV	14.00		12.00	48,000	3.58	29,200	2.58	8.0	58CV(A,X)110–20
	CNPV*4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.52	29,400	2.54	7.7	58MVB080–20
	CNPV*4821A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58MVB100–20
	CNPV*4821A**	46,000	TDR&TXV	13.50		11.50	48,000	3.52	29,400	2.54	7.7	58UVB080–20
	CNPV*4821A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58UVB100–20
	CNPV*4821A**	47,000	TXV		13.00	11.00	48,000	3.62	30,000	2.54	8.0	
	CNPV*4824A**	46,500	TDR&TXV	14.00		12.00	47,500	3.60	29,000	2.60	8.0	58CV(A,X)135–22
	CNPV*4824A**	46,500	TDR&TXV	14.00		12.00	47,500	3.62	29,000	2.60	8.0	58CV(A,X)155–22
	CNPV*4824A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58MVB120–20
	CNPV*4824A**	46,500	TDR&TXV	14.00		11.50	48,000	3.54	29,200	2.56	7.7	58UVB120–20
	CNPV*4824A**	47,000	TXV		13.00	11.00	48,000	3.62	30,000	2.54	8.0	
	CNPV*6024A**	47,500	TDR&TXV	14.50		12.00	47,500	3.66	29,000	2.62	8.0	58CV(A,X)135–22
	CNPV*6024A**	47,500	TDR&TXV	14.50		12.50	47,000	3.68	29,000	2.64	8.2	58CV(A,X)155–22
	CNPV*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.60	29,200	2.58	8.0	58MVB120–20
	CNPV*6024A**	47,000	TDR&TXV	14.00		12.00	47,500	3.60	29,200	2.58	8.0	58UVB120–20
	CNPV*6024A**	48,000	TXV		13.50	11.50	48,000	3.60	30,200	2.56	8.0	
	CSPH*4812A**	46,500	TDR&TXV	14.00		11.50	48,000	3.60	29,400	2.56	8.0	58CV(A,X)090–16
	CSPH*4812A**	47,000	TDR&TXV	14.00		12.00	48,000	3.62	29,400	2.58	8.0	58CV(A,X)110–20
	CSPH*4812A**	47,000	TDR&TXV	14.00		12.00	48,000	3.64	29,200	2.60	8.0	58CV(A,X)135–22
	CSPH*4812A**	47,000	TDR&TXV	14.00		12.00	48,000	3.68	29,200	2.62	8.0	58CV(A,X)155–22
	CSPH*4812A**	46,500	TDR&TXV	13.50		11.50	48,000	3.58	29,400	2.56	8.0	58MVB080–20
	CSPH*4812A**	46,500	TDR&TXV	14.00		11.50	48,000	3.60	29,400	2.56	8.0	58MVB100–20
	CSPH*4812A**	46,500	TDR&TXV	14.00		11.50	48,000	3.58	29,400	2.56	8.0	58MVB120–20
	CSPH*4812A**	47,500	TXV		13.00	11.00	48,000	3.66	30,200	2.56	8.0	
	CSPH*6012A**	47,500	TDR&TXV	14.00		12.00	47,500	3.66	29,200	2.60	8.0	58CV(A,X)090–16
	CSPH*6012A**	47,500	TDR&TXV	14.50		12.00	47,500	3.68	29,200	2.62	8.2	58CV(A,X)110–20
CSPH*6012A**	48,000	TDR&TXV	14.50		12.50	47,000	3.70	29,200	2.64	8.2	58CV(A,X)135–22	
CSPH*6012A**	48,000	TDR&TXV	14.50		12.50	47,000	3.74	29,000	2.66	8.2	58CV(A,X)155–22	
CSPH*6012A**	47,500	TDR&TXV	14.00		12.00	47,500	3.62	29,400	2.58	8.0	58MVB080–20	
CSPH*6012A**	47,500	TDR&TXV	14.00		12.00	47,500	3.64	29,400	2.60	8.0	58MVB100–20	
CSPH*6012A**	47,500	TDR&TXV	14.00		12.00	47,500	3.64	29,200	2.60	8.0	58MVB120–20	
CSPH*6012A**	48,000	TXV		13.50	11.50	48,000	3.66	30,200	2.58	8.2		
60–31	*FX4CN(B,F)060	60,000	TDR&TXV	14.00		12.00	59,000	3.76	36,600	2.70	8.3	
	FV4BNB006	60,000	TDR&TXV	14.00		11.50	58,500	3.76	36,800	2.68	8.2	
	FY4ANB060	59,500	TDR&TXV	13.00		10.80	60,000	3.64	38,500	2.56	8.0	
	CAP**6021A**	58,000	TDR&TXV	13.50		11.20	56,500	3.56	37,200	2.58	7.8	58CV(A,X)110–20
	CAP**6021A**	59,000	TXV		13.00	10.80	58,000	3.58	37,400	2.58	7.8	
	CAP**6024A**	59,000	TDR&TXV	13.50		11.50	57,500	3.58	37,000	2.60	7.8	58CV(A,X)135–22
	CAP**6024A**	59,000	TDR&TXV	14.00		11.50	57,500	3.62	37,000	2.62	7.9	58CV(A,X)155–22
	CAP**6024A**	60,000	TXV		13.00	10.80	59,000	3.68	38,000	2.60	8.0	
	CNPH*6024A**	58,500	TDR&TXV	13.50		11.20	57,500	3.52	37,200	2.58	7.7	58CV(A,X)110–20
	CNPH*6024A**	58,500	TDR&TXV	13.50		11.20	57,000	3.56	37,000	2.60	7.8	58CV(A,X)135–22
	CNPH*6024A**	59,000	TDR&TXV	14.00		11.50	57,000	3.58	36,800	2.62	7.8	58CV(A,X)155–22
	CNPH*6024A**	59,500	TXV		13.00	10.80	58,500	3.62	38,000	2.60	8.0	
	CNPV*6024A**	58,500	TDR&TXV	13.50		11.20	57,000	3.56	37,000	2.60	7.8	58CV(A,X)135–22
	CNPV*6024A**	59,000	TDR&TXV	14.00		11.50	57,000	3.58	36,800	2.62	7.8	58CV(A,X)155–22
	CNPV*6024A**	59,500	TXV		13.00	10.80	58,500	3.62	38,000	2.60	7.9	
CSPH*6012A**	59,000	TDR&TXV	13.50		11.20	57,500	3.60	37,200	2.60	7.8	58CV(A,X)110–20	
CSPH*6012A**	59,000	TDR&TXV	14.00		11.50	57,500	3.62	37,000	2.62	7.9	58CV(A,X)135–22	
CSPH*6012A**	59,000	TDR&TXV	14.00		11.50	57,500	3.66	37,000	2.64	7.9	58CV(A,X)155–22	
CSPH*6012A**	59,000	TXV		13.00	10.80	59,000	3.70	38,000	2.62	8.0		

See notes on page 18

COMBINATION RATINGS (CONT.)

Unit Size – Voltage, Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
E Capacity	E COP	H Capacity					H COP					
61 – 30	*FX4CN(B,F)060	57,500	TDR&TXV	15.00		12.00	57,500	3.78	35,400	2.66	8.6	
	FE4ANB006	57,500	TDR&TXV	14.50		12.00	57,500	3.78	35,400	2.66	8.6	
	FV4BNB006	57,500	TDR&TXV	14.50		12.00	57,500	3.78	35,400	2.66	8.6	
	FY4ANB060	56,500	TDR&TXV	13.50		11.20	58,000	3.60	36,400	2.54	8.2	
	CAP**6021A**	56,500	TDR&TXV	14.00		11.50	57,500	3.60	35,800	2.56	8.2	58CV(A,X)110 – 20
	CAP**6021A**	56,500	TXV		13.50	11.20	57,500	3.60	36,000	2.54	8.2	
	CAP**6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.62	35,600	2.58	8.2	58CV(A,X)135 – 22
	CAP**6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.66	35,400	2.60	8.5	58CV(A,X)155 – 22
	CAP**6024A**	56,500	TXV		13.50	11.20	58,000	3.60	36,000	2.54	8.2	
	CNPH*6024A**	56,000	TDR&TXV	14.00		11.50	57,500	3.58	35,600	2.54	8.2	58CV(A,X)110 – 20
	CNPH*6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.62	35,400	2.58	8.2	58CV(A,X)135 – 22
	CNPH*6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.66	35,400	2.60	8.5	58CV(A,X)155 – 22
	CNPH*6024A**	56,000	TXV		13.50	11.20	57,500	3.58	36,000	2.54	8.2	
	CNPV*6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.62	35,400	2.58	8.2	58CV(A,X)135 – 22
	CNPV*6024A**	56,500	TDR&TXV	14.00		11.50	57,000	3.66	35,400	2.60	8.5	58CV(A,X)155 – 22
	CNPV*6024A**	56,000	TXV		13.50	11.20	57,500	3.58	36,000	2.54	8.2	
CSPH*6012A**	56,500	TDR&TXV	14.00		11.50	57,500	3.64	35,800	2.58	8.5	58CV(A,X)110 – 20	
CSPH*6012A**	56,500	TDR&TXV	14.00		11.50	57,000	3.68	35,600	2.60	8.5	58CV(A,X)135 – 22	
CSPH*6012A**	57,000	TDR&TXV	14.50		12.00	57,000	3.72	35,400	2.62	8.5	58CV(A,X)155 – 22	
CSPH*6012A**	56,500	TXV		13.50	11.20	58,000	3.64	36,000	2.56	8.5		

* 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 (–8°C) db 15°F (–9°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)																		
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)			
CFM	EWB	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
525		72	21.13	10.79	1.12	20.07	10.38	1.27	18.98	9.96	1.43	17.87	9.54	1.61	16.71	9.11	1.81	15.46	8.65	2.03
	67	19.21	13.38	1.14	18.23	12.96	1.29	17.23	12.53	1.45	16.20	12.09	1.62	15.11	11.65	1.83	13.95	11.17	2.05	
	63††	17.81	12.92	1.16	16.89	12.92	1.30	15.95	12.06	1.46	14.97	11.82	1.64	13.95	11.17	1.84	12.86	10.68	2.07	
	62	17.45	15.94	1.16	16.56	15.50	1.30	15.65	15.04	1.46	14.73	14.54	1.64	13.84	13.84	1.84	12.96	12.96	2.06	
	57	16.86	16.86	1.16	16.16	16.16	1.30	15.42	15.42	1.46	14.65	14.65	1.64	13.84	13.84	1.84	12.96	12.96	2.06	
	72	21.50	11.28	1.15	20.40	10.86	1.29	19.27	10.44	1.45	18.12	10.02	1.63	16.93	9.58	1.83	15.63	9.11	2.05	
600	67	19.57	14.21	1.17	18.55	13.78	1.31	17.50	13.34	1.47	16.43	12.89	1.65	15.31	12.44	1.85	14.12	11.95	2.07	
	63††	18.15	13.70	1.18	17.20	13.26	1.32	16.21	12.82	1.48	15.20	12.37	1.66	14.15	11.91	1.86	13.02	11.41	2.09	
	62	17.83	17.06	1.18	16.92	16.57	1.32	16.01	16.01	1.48	15.19	15.19	1.66	14.33	14.33	1.86	13.40	13.40	2.08	
	57	17.54	17.54	1.18	16.78	16.78	1.32	16.00	16.00	1.48	15.19	15.19	1.66	14.33	14.33	1.86	13.40	13.40	2.08	
675	72	21.77	11.74	1.17	20.64	11.32	1.32	19.48	10.89	1.48	18.30	10.47	1.66	17.07	10.02	1.86	15.74	9.55	2.08	
	67	19.83	14.99	1.19	18.77	14.56	1.33	17.69	14.11	1.49	16.60	13.66	1.67	15.46	13.19	1.88	14.23	12.68	2.10	
	63††	18.41	14.43	1.20	17.42	13.99	1.35	16.40	13.54	1.51	15.37	13.08	1.69	14.29	12.60	1.89	13.13	12.09	2.11	
	62	18.16	18.02	1.20	17.31	17.31	1.35	16.48	16.48	1.51	15.63	15.63	1.68	14.73	14.73	1.88	13.75	13.75	2.10	
	57	18.10	18.10	1.20	17.30	17.30	1.35	16.48	16.48	1.51	15.63	15.63	1.68	14.73	14.73	1.88	13.75	13.75	2.10	

Cooling Indoor Model	Capacity	Power	Furnace Model
*FX4CNF018	1.00	1.00	
FF1ENP018	0.98	1.09	
FF1ENP024	0.99	1.09	
FV4BNF002	1.01	0.99	
FX4CNF024	1.01	0.99	
FY4ANF018	0.98	1.09	
FY4ANF024	0.98	1.10	
CAP**1814A**	0.97	1.08	
CAP**2414A**	0.99	1.08	
CAP**2417A**	0.99	1.08	
CNPF*2418A**	0.99	1.08	
CNPH*2417A**	0.99	1.08	
CNPV*1814A**	0.97	1.05	
CNPV*2414A**	0.99	1.08	
CNPV*2417A**	0.99	1.08	
CSPH*2412A**	0.99	1.08	
CAP**1814A**	0.97	0.97	58CV(A_X070-12
CAP**2414A**	0.99	0.99	58CV(A_X070-12
CNPV*2417A**	0.99	0.99	58CV(A_X070-12
CNPV*1814A**	0.97	0.97	58CV(A_X070-12
CNPV*2414A**	0.99	0.99	58CV(A_X070-12
CSPH*2412A**	0.99	0.99	58CV(A_X070-12
CAP**2417A**	0.99	0.97	58CV(A_X090-16
CNPH*2417A**	0.99	0.99	58CV(A_X090-16
CSPH*2412A**	0.99	0.99	58CV(A_X090-16
CNPH*2417A**	0.99	0.96	58CV(A_X090-16
CSPH*2412A**	0.99	0.99	58MB040-14
CNPV*2414A**	0.99	0.99	58MB040-14
CAP**2417A**	0.99	0.99	58MB060-14
CNPH*2417A**	0.99	0.99	58MB060-14
CNPV*2417A**	0.99	0.99	58MB060-14
CSPH*2412A**	0.99	0.97	58MB060-14
CNPH*2417A**	0.99	0.99	58MB060-14

See note on pg. 26

Cooling Indoor Model	Capacity	Power	Furnace Model
CSPH*2412A**	0.99	0.99	58MV/B080 – 14
CAP**2417A**	0.99	0.99	58UV/B060 – 14
CNPV*2417A**	0.99	0.99	58UV/B060 – 14

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																		
CFM	EWB	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)			Total System KW**
		Capacity MBtuh	Sens†	Total	Capacity MBtuh	Sens†	Total	Capacity MBtuh	Sens†	Total	Capacity MBtuh	Sens†	Total	Capacity MBtuh	Sens†	Total	Capacity MBtuh	Sens†	Total	
25HBA24A31 Outdoor Section With FX4CNF024 Indoor Section																				
700	72	27.45	14.05	1.57	26.18	13.55	1.76	24.84	13.04	1.97	23.43	12.51	2.21	21.92	11.94	2.47	20.26	11.33	2.75	
	67	25.08	17.45	1.57	23.90	16.94	1.76	22.65	16.40	1.97	21.34	15.85	2.21	19.94	15.27	2.47	18.41	14.64	2.75	
	63††	23.35	16.89	1.57	22.23	16.37	1.76	21.05	15.83	1.97	19.81	15.27	2.21	18.48	14.68	2.47	17.06	14.05	2.76	
	62	22.89	20.82	1.57	21.80	20.28	1.76	20.66	19.71	1.97	19.48	19.09	2.21	18.27	18.27	2.47	17.12	17.12	2.76	
	57	22.11	22.11	1.57	21.24	21.24	1.76	20.31	20.31	1.97	19.33	19.33	2.21	18.28	18.28	2.47	17.12	17.12	2.76	
800	72	27.91	14.68	1.60	26.59	14.18	1.79	25.20	13.66	2.00	24.69	13.47	1.94	22.19	12.55	2.50	20.47	11.93	2.78	
	67	25.53	18.52	1.60	24.30	18.00	1.79	23.00	17.45	2.00	21.65	16.89	2.24	20.19	16.30	2.50	18.62	15.65	2.79	
	63††	23.78	17.90	1.60	22.62	17.37	1.79	21.39	16.82	2.01	20.11	16.24	2.24	18.74	15.64	2.50	17.26	14.99	2.79	
	62	23.37	22.26	1.60	22.25	21.67	1.79	21.09	21.05	2.01	20.02	20.02	2.24	18.90	18.90	2.50	17.67	17.67	2.79	
	57	22.97	22.97	1.60	22.04	22.04	1.79	21.06	21.06	2.01	20.02	20.02	2.24	18.90	18.90	2.50	17.68	17.68	2.79	
900	72	28.25	15.27	1.63	26.89	14.77	1.82	26.56	14.65	1.75	24.98	14.07	1.98	23.28	13.45	2.23	20.61	12.50	2.81	
	67	25.85	19.53	1.63	24.58	19.01	1.82	23.25	18.45	2.04	21.86	17.27	2.27	20.37	16.60	2.53	18.76	16.60	2.82	
	63††	24.10	18.85	1.63	22.90	18.31	1.83	21.64	17.75	2.04	20.32	17.17	2.28	18.92	16.55	2.54	17.41	15.87	2.82	
	62	23.77	23.53	1.63	22.71	22.71	1.83	21.67	21.67	2.04	20.58	20.58	2.28	19.41	19.41	2.54	18.12	18.12	2.82	
	57	23.68	23.68	1.63	22.71	22.71	1.83	21.68	21.68	2.04	20.59	20.59	2.28	19.41	19.41	2.54	18.12	18.12	2.82	

Cooling Indoor Model			Furnace Model		
*FX4CNF024	Capacity	Power	*FX4CNF030	Capacity	Power
FE4ANF002	1.01	0.97	FE4ANF003	1.02	0.98
FE4ANF003	1.02	0.98	FY4ANF024	0.98	1.06
FF1ENP024	0.98	1.03	FY4ANF030	1.00	1.07
FF1ENP030	0.99	1.08	CAP**2414A**	0.99	1.07
FV4BNF002	1.01	0.97	CAP**2417A**	1.00	1.07
FV4BNF003	1.01	0.95	CAP**3014A**	1.00	1.07
FX4CNF030	1.02	1.01	CAP**3017A**	1.00	1.07
FY4ANF024	0.98	1.06	CNPV*2418A**	0.99	1.07
FY4ANF030	1.00	1.07	CNPV*2417A**	0.99	1.07
CAP**2414A**	0.99	1.07	CNPV*3017A**	1.00	1.07
CAP**2417A**	0.99	1.07	CNPV*2414A**	0.99	1.07
CAP**3014A**	1.00	1.07	CNPV*2417A**	0.99	1.07
CAP**3017A**	1.00	1.07	CNPV*3014A**	1.00	1.07
CNPV*2418A**	0.99	1.07	CNPV*3017A**	1.00	1.07
CNPV*2417A**	0.99	1.07	CSPH*2412A**	0.99	1.06
CNPV*3017A**	1.00	1.07	CSPH*3012A**	1.00	1.07
CNPV*2414A**	0.99	1.07	CAP**2414A**	0.98	1.07
CNPV*2417A**	0.99	1.07	CAP**2417A**	0.98	1.07
CNPV*3014A**	1.00	1.07	CNPV*2417A**	0.98	1.07
CNPV*3017A**	1.00	1.07	CNPV*3014A**	1.00	1.07
CSPH*2412A**	0.99	1.06	CNPV*2414A**	0.98	1.07
CSPH*3012A**	1.00	1.07	CNPV*2417A**	0.98	1.07
CAP**2414A**	0.98	1.07	CNPV*3017A**	1.00	1.07
CAP**2417A**	0.98	1.07	CNPV*2414A**	0.98	1.07
CNPV*2414A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.99	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
CAP**2417A**	0.98	1.07	CNPV*2417A**	0.98	1.07
CNPV*2417A**	0.98	1.07	CNPV*3014A**	1.00	1.07
CNPV*3014A**	1.00	1.07	CNPV*3017A**	1.00	1.07
CNPV*3017A**	1.00	1.07	CSPH*2412A**	0.99	1.06
CSPH*2412A**	0.99	1.06	CSPH*3012A**	1.00	1.07
CSPH*3012A**	1.00	1.07	CAP**2414A**	0.98	1.07
CAP**2414A**	0.98	1.07	CAP**2417A**	0.98	1.07
C					

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																							
CFM	EWB	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†		Total	Sens†	Total
25HBA430A31 Outdoor Section With FX4CNF030 Indoor Section																									
875	72	35.20	17.81	2.14		33.56	17.16	2.39		31.84	16.49	2.67		30.02	15.79	2.98		28.04	15.04	3.31		25.83	14.21	3.67	
	67	32.22	21.97	2.13		30.73	21.31	2.39		29.14	20.63	2.67		27.46	19.91	2.97		25.64	19.14	3.31		23.63	18.30	3.67	
	63††	30.03	21.30	2.13		28.63	20.64	2.38		27.14	19.95	2.66		25.57	19.23	2.97		23.87	18.46	3.30		22.00	17.63	3.66	
	62	29.46	26.09	2.13		28.10	25.41	2.38		26.65	24.68	2.66		25.14	23.90	2.97		23.52	23.03	3.30		21.83	21.83	3.66	
	57	28.17	28.17	2.13		27.09	27.09	2.38		25.93	25.93	2.66		24.70	24.70	2.97		23.34	23.34	3.30		21.84	21.84	3.66	
1000	72	35.82	18.56	2.18		34.11	17.90	2.44		32.32	17.22	2.72		30.43	16.51	3.02		28.37	15.75	3.35		26.08	14.91	3.71	
	67	32.81	23.23	2.18		31.25	22.56	2.43		29.60	21.87	2.71		27.85	21.14	3.02		25.96	20.35	3.35		23.88	19.49	3.71	
	63††	30.60	22.49	2.17		29.14	21.82	2.43		27.59	21.11	2.70		25.95	20.38	3.01		24.19	19.59	3.34		22.25	18.74	3.70	
	62	30.07	27.81	2.17		28.66	27.08	2.42		27.18	26.30	2.70		25.65	25.37	3.01		24.11	24.11	3.34		22.50	22.50	3.70	
	57	29.25	29.25	2.17		28.10	28.10	2.42		26.87	26.87	2.70		25.55	25.55	3.01		24.11	24.11	3.34		22.51	22.51	3.70	
1125	72	36.29	19.27	2.23		34.52	18.61	2.48		32.67	17.92	2.76		30.73	17.20	3.07		28.60	16.43	3.40		26.25	15.58	3.75	
	67	33.26	24.45	2.22		31.65	23.77	2.47		29.94	23.07	2.75		28.13	22.31	3.06		26.19	21.51	3.39		24.06	20.63	3.75	
	63††	31.05	23.64	2.22		29.53	22.96	2.47		27.93	22.24	2.75		26.24	21.49	3.05		24.43	20.68	3.39		22.44	19.79	3.75	
	62	30.57	29.38	2.21		29.14	28.57	2.47		27.85	27.65	2.75		26.24	26.24	3.05		24.73	24.73	3.39		23.04	23.04	3.75	
	57	30.15	30.15	2.21		28.93	28.93	2.47		27.63	27.63	2.75		26.25	26.25	3.05		24.74	24.74	3.39		23.04	23.04	3.75	

Cooling Indoor Model	Capacity	Power	Furnace Model	Cooling Indoor Model	Capacity	Power	Furnace Model
*FX4CNF030	1.00	1.00		CSPH*3612A**	0.99	0.96	58CV(A.X)090-16
FF1ENP030	0.98	1.06		CAP**3621A**	1.00	0.97	58CV(A.X)110-20
FF1ENP036	1.00	1.06		CNPH*3017A**	0.99	0.98	58CV(A.X)110-20
FV4BNF002	1.00	0.98		CNPH*3617A**	0.99	0.98	58CV(A.X)110-20
FV4BNF003	1.01	0.97		CNPV*3621A**	0.99	0.98	58CV(A.X)110-20
FV4BNF005	1.03	0.96		CSPH*3012A**	0.99	0.97	58CV(A.X)110-20
Fx4CN(B)F036	1.01	1.00		CSPH*3612A**	0.99	0.96	58CV(A.X)110-20
FV4ANF030	0.99	1.05		CNPH*3017A**	0.99	0.98	58CV(A.X)135-22
FV4ANF036	1.00	1.08		CNPH*3617A**	0.99	0.98	58CV(A.X)135-22
CAP**3014A**	1.00	1.07		CSPH*3012A**	0.99	0.97	58CV(A.X)135-22
CAP**3017A**	1.00	1.07		CSPH*3612A**	0.99	0.95	58CV(A.X)135-22
CAP**3614A**	1.00	1.07		CNPH*3017A**	0.99	0.97	58CV(A.X)155-22
CAP**3617A**	1.00	1.07		CNPH*3617A**	0.99	0.97	58CV(A.X)155-22
CAP**3621A**	1.00	1.07		CSPH*3012A**	0.99	0.97	58CV(A.X)155-22
CNPF*3618A**	1.00	1.07		CSPH*3612A**	0.99	0.95	58CV(A.X)155-22
CNPH*3017A**	1.00	1.07		CNPH*3017A**	0.99	0.99	58MB040-14
CNPH*3617A**	1.00	1.07		CNPH*3617A**	0.99	0.99	58MB040-14
CNPV*3014A**	1.00	1.07		CSPH*3012A**	0.99	0.99	58MB040-14
CNPV*3017A**	1.00	1.07		CSPH*3612A**	0.99	0.97	58MB040-14
CNPV*3617A**	1.00	1.07		CAP**3617A**	0.99	0.98	58MB060-14
CSPH*3012A**	1.00	1.06		CNPH*3017A**	0.99	0.99	58MB060-14
CSPH*3612A**	1.00	1.05		CNPH*3617A**	0.99	0.98	58MB060-14
CAP**3014A**	0.99	0.99	58CV(A.X)070-12	CNPH*3017A**	0.99	0.98	58MB060-14
CAP**3614A**	0.99	0.98	58CV(A.X)070-12	CNPV*3617A**	0.99	0.98	58MB060-14
CNPH*3017A**	0.99	0.98	58CV(A.X)070-12	CSPH*3012A**	0.99	0.99	58MB060-14
CNPH*3617A**	0.99	0.98	58CV(A.X)070-12	CSPH*3612A**	0.99	0.97	58MB060-14
CSPH*3012A**	0.99	0.99	58CV(A.X)070-12	CAP**3621A**	0.99	0.98	58MB060-14
CSPH*3612A**	0.99	0.98	58CV(A.X)070-12	CNPH*3017A**	0.99	0.98	58MB060-14
CAP**3017A**	0.99	0.97	58CV(A.X)070-12	CNPH*3617A**	0.99	0.98	58MB060-14
CAP**3617A**	0.99	0.98	58CV(A.X)090-16	CSPH*3012A**	0.99	0.99	58MB060-14
CNPH*3017A**	0.99	0.98	58CV(A.X)090-16	CSPH*3612A**	0.99	0.97	58MB060-14
CNPH*3617A**	0.99	0.98	58CV(A.X)090-16	CAP**3621A**	0.99	0.98	58MB060-20
CNPV*3017A**	0.99	0.98	58CV(A.X)090-16	CNPH*3017A**	0.99	0.98	58MB060-20
CNPV*3617A**	0.99	0.98	58CV(A.X)090-16	CNPH*3617A**	0.99	0.98	58MB060-20
CSPH*3012A**	0.99	0.97	58CV(A.X)090-16	CNPV*3621A**	0.99	0.98	58MB060-20

See note on pg. 26

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB	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†	
25HBA436A32 Outdoor Section With FX4CN(B,F)036 Indoor Section																			
1050	72	40.83	20.31	2.36	38.94	19.62	2.62	36.93	18.89	2.91	34.83	18.14	3.23	32.54	17.33	3.58	29.99	16.44	3.96
	67	37.44	25.58	2.35	35.68	24.86	2.61	33.82	24.11	2.91	31.86	23.33	3.23	29.73	22.49	3.58	27.37	21.56	3.95
	63††	34.95	24.77	2.35	33.29	24.03	2.61	31.53	23.28	2.90	29.67	22.48	3.22	27.66	21.63	3.57	25.46	20.89	3.95
	62	34.34	30.74	2.34	32.74	29.94	2.61	31.06	29.07	2.90	29.33	29.33	3.22	27.68	27.68	3.57	25.85	25.85	3.95
	57	33.56	33.56	2.34	32.23	32.23	2.61	30.82	30.82	2.90	29.32	29.32	3.22	27.68	27.68	3.57	25.85	25.85	3.95
1200	72	41.36	21.19	2.41	39.41	20.49	2.68	37.33	19.76	2.97	35.17	19.00	3.29	32.82	18.19	3.64	30.19	17.29	4.02
	67	37.96	27.10	2.41	36.13	26.37	2.67	34.20	25.60	2.96	32.18	24.81	3.29	30.00	23.95	3.63	27.58	22.99	4.01
	63††	35.46	26.19	2.40	33.74	25.45	2.67	31.91	24.68	2.96	30.00	23.87	3.28	27.94	22.99	3.63	25.68	22.02	4.00
	62	34.96	32.68	2.40	33.32	33.32	2.67	31.79	31.79	2.96	30.20	30.20	3.28	28.48	28.48	3.63	26.54	26.54	4.01
	57	34.68	34.68	2.40	33.28	33.28	2.67	31.79	31.79	2.96	30.21	30.21	3.28	28.48	28.48	3.63	26.55	26.55	4.01
1350	72	41.75	22.04	2.47	39.75	21.34	2.74	37.62	20.60	3.03	35.41	19.84	3.35	32.99	19.01	3.70	30.31	18.10	4.07
	67	38.33	28.58	2.46	36.46	27.84	2.73	34.48	27.06	3.02	32.41	26.24	3.34	30.18	25.34	3.69	27.73	24.33	4.07
	63††	35.84	27.58	2.46	34.07	26.83	2.73	32.20	26.03	3.02	30.24	25.19	3.34	28.14	24.27	3.69	25.84	23.24	4.06
	62	35.59	35.59	2.46	34.13	34.13	2.73	32.56	32.56	3.02	30.91	30.91	3.34	29.11	29.11	3.69	27.08	27.08	4.06
	57	35.60	35.60	2.46	34.13	34.13	2.73	32.57	32.57	3.02	30.92	30.92	3.34	29.11	29.11	3.69	27.09	27.09	4.06

Cooling Indoor Model				Furnace Model			
	Capacity	Power			Capacity	Power	
*FX4CN(B,F)036	1.00	1.00			CNPV*4221A**	0.99	0.99
FF1ENP036	0.98	1.08			CSPH*3612A**	1.01	0.96
FV4BN(B,F)003	0.99	0.95			CSPH*4212A**	1.01	0.97
FV4BN(B,F)005	1.04	0.99			CAP**4224A**	0.99	0.95
FV4BNF002	0.99	0.99			CNPH*3617A**	0.98	0.98
FX4CN(B,F)042	1.02	1.02			CNPH*4221A**	0.99	0.99
FV4ANF036	0.98	1.08			CSPH*3612A**	1.01	0.96
FV4ANF042	1.01	1.07			CSPH*4212A**	1.01	0.97
CAP**3614A**	0.98	1.04			CAP**4224A**	1.00	0.96
CAP**3617A**	0.99	1.05			CNPH*3617A**	0.99	0.99
CAP**3621A**	0.99	1.05			CNPH*4221A**	1.00	0.96
CAP**4221A**	0.99	1.06			CSPH*3612A**	1.01	0.97
CAP**4224A**	0.99	1.06			CSPH*4212A**	1.02	0.98
CNPH*3618A**	0.98	1.05			CAP**4224A**	0.99	0.99
CNPH*3617A**	0.98	1.05			CNPH*3617A**	0.98	1.00
CNPH*4221A**	0.99	1.06			CNPH*4221A**	0.99	0.99
CNPH*3617A**	0.98	1.05			CSPH*3612A**	1.00	1.00
CNPV*3621A**	0.98	1.05			CSPH*4212A**	1.01	1.01
CNPV*4221A**	0.99	1.06			CAP**3617A**	0.98	0.98
CSPH*3612A**	1.01	1.06			CNPH*3617A**	0.99	0.98
CSPH*4212A**	1.02	1.06			CNPH*4221A**	0.99	0.99
CAP**3614A**	0.98	0.98		58CV(A,X)070-12	CNPV*3617A**	0.98	0.98
CNPH*3617A**	0.98	0.98		58CV(A,X)070-12	CSPH*3612A**	1.01	1.01
CNPH*4221A**	0.99	0.99		58CV(A,X)070-12	CSPH*4212A**	1.01	0.97
CSPH*3612A**	1.00	1.00		58CV(A,X)070-12	CAP**3621A**	0.98	0.98
CSPH*4212A**	1.01	1.01		58CV(A,X)070-12	CAP**4221A**	0.99	0.99
CAP**3617A**	0.99	0.99		58CV(A,X)090-16	CNPH*3617A**	0.98	1.00
CNPH*3617A**	0.98	0.98		58CV(A,X)090-16	CNPH*4221A**	0.99	0.99
CNPH*4221A**	0.99	0.99		58CV(A,X)090-16	CNPV*3621A**	0.98	1.00
CNPV*3617A**	0.98	0.98		58CV(A,X)090-16	CNPV*4221A**	0.99	0.99
CNPV*4221A**	0.99	0.99		58CV(A,X)090-16	CSPH*3612A**	1.01	1.00
CSPH*3612A**	1.01	0.97		58CV(A,X)090-16	CSPH*4212A**	1.01	1.01
CAP**3621A**	0.99	0.99		58CV(A,X)110-20	CAP**3621A**	0.98	0.98
CAP**4221A**	0.99	0.99		58CV(A,X)110-20	CAP**4221A**	0.99	0.99
CNPH*3617A**	0.98	0.98		58CV(A,X)110-20	CNPH*3617A**	0.98	0.98
CNPH*4221A**	0.99	0.99		58CV(A,X)110-20	CNPH*4221A**	0.99	0.99
CNPV*3621A**	0.98	0.98		58CV(A,X)110-20	CNPV*3621A**	0.98	0.98

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR			CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB	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**		
		Total	Sensit		Total	Sensit		Total	Sensit		Total	Sensit		Total	Sensit		Total	Sensit		
1225	72	49.45	25.24	2.93	47.14	24.34	2.97	44.71	23.40	3.59	42.17	22.44	3.97	39.42	21.42	4.39	36.37	20.29	4.84	
	67	45.30	31.45	2.91	43.18	30.53	3.23	40.95	29.58	3.56	38.60	28.59	3.96	36.07	27.54	4.38	33.30	26.39	4.84	
	63††	42.25	30.48	2.90	40.26	29.56	3.22	38.16	28.60	3.56	35.96	27.60	3.95	33.60	26.55	4.37	31.03	25.41	4.84	
	62	41.44	37.60	2.90	39.51	36.63	3.21	37.49	35.60	3.56	35.38	34.49	3.95	33.18	33.18	4.37	31.07	31.07	4.84	
	57	40.01	40.01	2.89	38.46	38.46	3.21	36.81	36.81	3.56	35.06	35.06	3.95	33.17	33.17	4.37	31.07	31.07	4.84	
	72	50.19	26.31	3.00	47.80	25.40	3.31	45.27	24.46	3.66	42.67	23.49	4.04	39.80	22.44	4.46	36.85	21.31	4.91	
1400	67	46.03	33.30	2.99	43.83	32.37	3.30	41.50	31.40	3.64	39.06	30.39	4.03	36.45	29.32	4.45	33.59	28.14	4.91	
	63††	42.97	32.22	2.97	40.89	31.28	3.31	38.72	30.31	3.63	36.43	29.29	4.02	33.99	28.21	4.44	31.33	27.04	4.91	
	62	42.24	40.10	2.97	40.25	39.05	3.28	38.20	37.86	3.63	36.21	36.21	4.02	34.20	34.20	4.44	31.96	31.96	4.90	
	57	41.48	41.48	2.97	39.83	39.83	3.28	37.87	38.07	3.63	36.21	36.21	4.02	34.20	34.20	4.44	31.96	31.96	4.91	
1575	72	50.74	27.33	3.08	48.26	26.41	3.39	45.66	25.45	3.73	42.99	24.48	4.11	40.04	23.42	4.53	36.81	22.28	4.98	
	67	46.56	35.06	3.08	44.28	34.12	3.37	41.87	33.12	3.71	39.38	32.10	4.10	36.70	31.00	4.52	33.78	29.78	4.97	
	63††	43.49	33.87	3.04	41.35	32.92	3.36	39.11	31.92	3.71	36.76	30.88	4.09	34.26	29.77	4.51	31.54	28.55	4.97	
	62	42.91	42.28	3.04	40.95	40.95	3.36	39.09	39.09	3.70	37.13	37.13	4.09	35.02	35.02	4.51	32.66	32.66	4.97	
	57	42.68	42.68	3.04	40.94	40.94	3.36	39.10	39.10	3.71	37.14	37.14	4.09	35.02	35.02	4.51	32.66	32.66	4.97	

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See note on pg. 26

25HBA4

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
CFM	EWB	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**	
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
25HBA448A0032010 Outdoor, Section With FX4CN(B, F)Q48 Indoor, Section																			
1400	72	57.59	28.50	30.86	54.77	27.43	34.83	51.82	26.33	39.10	48.76	25.21	43.70	45.52	24.03	41.99	22.77	53.87	
	67	52.62	35.47	31.08	50.02	34.38	34.99	47.32	33.26	39.21	44.51	32.10	43.74	41.55	30.90	38.32	29.61	53.81	
	63††	48.94	34.32	31.22	46.50	33.22	35.08	43.98	32.10	39.24	41.35	30.94	43.73	38.59	29.75	35.60	28.46	53.70	
	62	47.98	42.35	31.24	45.61	41.21	35.09	43.17	40.01	39.24	40.66	38.73	43.71	38.17	38.17	35.73	35.73	53.71	
	57	46.33	46.33	31.29	44.44	44.44	35.11	42.46	42.46	39.25	40.38	40.38	43.71	38.17	38.17	35.74	35.74	53.71	
1600	72	58.50	29.74	31.60	55.58	28.67	35.59	52.51	27.55	39.88	49.34	26.41	44.48	45.98	25.22	42.34	23.95	54.68	
	67	53.54	37.62	31.84	50.82	36.51	35.77	48.00	35.36	40.00	45.08	34.19	44.55	42.01	32.96	38.67	31.63	54.63	
	63††	49.83	36.34	31.98	47.28	35.22	35.86	44.65	34.07	40.05	41.92	32.89	44.54	39.06	31.66	35.97	30.34	54.54	
	62	48.94	45.27	32.01	46.51	44.02	35.87	44.01	44.01	40.05	41.76	41.76	44.54	39.41	39.41	36.82	36.82	54.57	
	57	48.11	48.11	32.03	46.09	46.09	35.88	43.98	43.98	40.05	41.77	41.77	44.54	39.42	39.42	36.82	36.82	54.57	
1800	72	59.16	30.92	32.35	56.15	29.83	36.36	52.98	28.71	40.65	49.73	27.56	45.27	46.28	26.36	42.54	25.07	55.48	
	67	54.18	39.66	32.60	51.38	38.53	36.55	48.47	37.36	40.79	45.46	36.17	45.35	42.32	34.91	38.91	33.54	55.45	
	63††	50.47	38.25	32.76	47.84	37.12	36.65	45.13	35.95	40.85	42.32	34.74	45.36	39.39	33.48	36.23	32.10	55.37	
	62	49.78	47.81	32.77	47.44	47.44	36.65	45.22	45.22	40.84	42.89	42.89	45.36	40.41	40.41	37.67	37.67	55.42	
	57	49.58	49.58	32.78	47.45	47.45	36.65	45.22	45.22	40.84	42.89	42.89	45.36	40.42	40.42	37.67	37.67	55.42	

Cooling Indoor Model	Capacity		Power	Furnace Model	
	Total	Sens†		Total	Sens†
*FX4CN(B,F)048	1.00	1.00	1.00	58CV(A,X)135--22	58UVB080--20
FE4AN(B,F)005	0.99	0.95	0.95	58CV(A,X)135--22	58UVB080--20
FE4ANB006	1.00	0.96	0.96	58CV(A,X)135--22	58UVB080--20
FV4BN(B,F)005	0.99	0.95	0.95	58CV(A,X)135--22	58UVB080--20
FV4BNB006	1.00	0.96	0.96	58CV(A,X)155--22	58UVB100--20
FX4CN(B,F)060	1.00	0.96	0.96	58CV(A,X)155--22	58UVB100--20
FV4ANB080	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
FV4ANF048	0.99	1.08	1.08	58CV(A,X)155--22	58UVB100--20
CAP**4817A**	0.97	1.06	1.06	58CV(A,X)155--22	58UVB100--20
CAP**4821A**	0.98	1.07	1.07	58CV(A,X)155--22	58UVB100--20
CAP**4824A**	0.98	1.07	1.07	58CV(A,X)155--22	58UVB100--20
CAP**6021A**	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
CAP**6024A**	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
CAP**4818A**	0.96	1.05	1.05	58CV(A,X)155--22	58UVB100--20
CAP**4821A**	0.96	1.07	1.07	58CV(A,X)155--22	58UVB100--20
CAP**6024A**	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
CNPV*4821A**	0.98	1.07	1.07	58CV(A,X)155--22	58UVB100--20
CNPV*4824A**	0.98	1.07	1.07	58CV(A,X)155--22	58UVB100--20
CNPV*6024A**	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
CSPH*4812A**	0.99	1.08	1.08	58CV(A,X)155--22	58UVB100--20
CSPH*6012A**	1.00	1.04	1.04	58CV(A,X)155--22	58UVB100--20
CAP**4817A**	0.97	1.01	1.01	58CV(A,X)090--16	58UVB100--20
CNPH*4821A**	0.97	1.01	1.01	58CV(A,X)090--16	58UVB100--20
CNPV*6024A**	0.98	0.98	0.98	58CV(A,X)090--16	58UVB100--20
CSPH*4812A**	0.97	1.01	1.01	58CV(A,X)090--16	58UVB100--20
CSPH*6012A**	0.99	0.99	0.99	58CV(A,X)090--16	58UVB100--20
CAP**4821A**	0.97	1.01	1.01	58CV(A,X)110--20	58UVB100--20
CNPV*4821A**	0.97	1.01	1.01	58CV(A,X)110--20	58UVB100--20
CNPV*6024A**	0.99	0.99	0.99	58CV(A,X)110--20	58UVB100--20
CSPH*4812A**	0.97	0.97	0.97	58CV(A,X)110--20	58UVB100--20
CSPH*6012A**	0.99	0.99	0.99	58CV(A,X)110--20	58UVB100--20
CAP**4821A**	0.97	1.01	1.01	58CV(A,X)110--20	58UVB100--20
CNPV*4821A**	0.97	1.01	1.01	58CV(A,X)110--20	58UVB100--20
CNPV*6024A**	0.99	0.99	0.99	58CV(A,X)110--20	58UVB100--20
CSPH*4812A**	0.97	0.97	0.97	58CV(A,X)110--20	58UVB100--20
CSPH*6012A**	0.99	0.99	0.99	58CV(A,X)110--20	58UVB100--20
CAP**4821A**	0.97	1.01	1.01	58CV(A,X)135--22	58UVB100--20
CNPV*4821A**	0.97	1.01	1.01	58CV(A,X)135--22	58UVB100--20
CNPV*6024A**	0.99	0.99	0.99	58CV(A,X)135--22	58UVB100--20
CSPH*4812A**	0.97	0.97	0.97	58CV(A,X)135--22	58UVB100--20
CSPH*6012A**	0.99	0.99	0.99	58CV(A,X)135--22	58UVB100--20
CAP**4821A**	0.97	1.01	1.01	58CV(A,X)135--22	58UVB100--20
CNPV*4821A**	0.97	1.01	1.01	58CV(A,X)135--22	58UVB100--20
CNPV*6024A**	0.99	0.99	0.99	58CV(A,X)135--22	58UVB100--20
CSPH*4812A**	0.97	0.97	0.97	58CV(A,X)135--22	58UVB100--20
CSPH*6012A**	0.99	0.99	0.99	58CV(A,X)135--22	58UVB100--20

See note on pg. 26

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)												
CFM	EWB	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**		
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
25HBA460A31 Outdoor Section With FX4CN(B,F)060 Indoor Section														
1750	72	72.62	36.87	4.19	69.15	35.52	34.10	5.09	61.63	32.65	5.61	57.51	29.43	6.78
	67	66.60	46.02	4.14	63.39	44.63	43.18	5.04	56.49	41.70	5.56	52.72	38.43	6.74
	63††	62.10	44.61	4.10	59.09	43.22	41.78	5.00	52.68	40.30	5.52	49.19	37.73	6.70
	62	60.89	55.07	4.09	57.97	53.62	52.10	4.99	51.79	50.47	5.51	48.52	46.89	6.04
	57	58.72	58.72	4.07	56.39	56.39	53.93	53.93	5.33	51.33	51.33	5.50	45.38	6.70
2000	72	73.67	38.43	4.31	70.03	37.05	35.64	5.21	62.29	34.16	5.73	58.24	30.90	6.90
	67	67.66	48.75	4.26	64.32	47.34	45.86	5.16	57.14	44.36	5.68	53.42	48.96	6.85
	63††	63.17	47.18	4.22	60.04	45.76	44.29	5.12	53.35	42.78	5.64	49.72	41.18	6.82
	62	62.04	58.82	4.21	59.03	57.26	55.50	5.11	53.00	53.00	5.63	49.99	48.39	6.19
	57	60.91	60.91	4.20	58.41	58.41	55.78	55.78	5.11	53.00	53.00	50.00	46.65	6.83
2250	72	74.40	39.90	4.43	70.65	38.50	37.09	5.33	62.71	35.60	5.84	58.33	32.30	7.01
	67	68.41	51.34	4.38	64.95	49.91	48.41	5.27	57.56	46.88	5.79	53.56	49.18	6.97
	63††	63.93	49.62	4.34	60.68	48.18	47.6	5.23	53.80	45.13	5.75	50.07	43.48	6.93
	62	63.01	62.14	4.33	60.06	60.06	57.26	5.23	54.33	54.33	5.76	51.16	47.62	6.95
	57	62.69	62.69	4.33	60.06	60.06	57.27	5.23	54.34	54.34	5.76	51.16	47.63	6.95

Cooling Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)060	1.00	1.00	
FV4ENB006	1.00	1.04	
FY4ANB060	0.99	1.10	
CAP**6021A**	0.98	1.09	
CAP**6024A**	1.00	1.11	
CNPH*6024A**	0.99	1.10	
CNPV*6024A**	0.99	1.10	
CSPH*6012A**	0.98	1.09	
CAP**6021A**	0.97	1.04	58CV(A,X)110--20
CNPH*6024A**	0.98	1.04	58CV(A,X)110--20
CSPH*6012A**	0.98	1.05	58CV(A,X)110--20
CAP**6024A**	0.98	1.03	58CV(A,X)135--22
CNPH*6024A**	0.98	1.04	58CV(A,X)135--22
CNPV*6024A**	0.98	1.04	58CV(A,X)135--22
CSPH*6012A**	0.98	1.03	58CV(A,X)135--22
CAP**6024A**	0.98	1.03	58CV(A,X)155--22
CNPH*6024A**	0.98	1.03	58CV(A,X)155--22
CNPV*6024A**	0.98	1.03	58CV(A,X)155--22
CSPH*6012A**	0.98	1.03	58CV(A,X)155--22

See note on pg. 26

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																			
CFM	EWB	75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)			
		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†
25HBA461A30 Outdoor Section With FX4CN(B,F)060 Indoor Section																					
1750	72	68.70	32.70	3.90	65.41	31.53	4.30	61.88	30.29	4.75	58.19	29.01	54.18	27.65	5.77						
	67	62.98	40.92	3.84	59.96	39.72	4.25	56.75	38.47	4.69	53.37	37.17	49.73	35.78	5.72						
	63††	58.74	39.64	3.80	55.93	38.44	4.20	52.96	37.20	4.65	49.82	35.90	46.45	34.52	5.68						
	62	57.63	49.03	3.79	54.91	47.78	4.20	52.05	46.43	4.64	49.08	48.73	46.20	46.20	5.68						
	57	56.02	56.02	3.78	53.81	53.81	4.18	51.47	51.47	4.64	48.95	48.95	46.21	46.21	5.68						
2000	72	69.76	34.18	4.00	66.31	32.99	4.40	62.65	31.73	4.85	58.82	30.44	54.67	29.05	5.87						
	67	63.99	43.43	3.94	60.84	42.21	4.35	57.50	40.94	4.79	53.99	39.61	50.22	38.19	5.82						
	63††	59.74	42.00	3.90	56.81	40.79	4.30	53.72	39.52	4.75	50.46	38.19	46.97	36.77	5.82						
	62	58.76	52.39	3.89	55.98	50.97	4.30	53.22	53.22	4.75	50.53	50.53	47.60	47.60	5.79						
	57	58.09	58.09	3.89	55.74	55.74	4.29	53.22	53.22	4.75	50.54	50.54	47.60	47.60	5.79						
2250	72	70.51	35.58	4.10	66.95	34.38	4.50	63.17	33.11	4.94	59.23	31.80	54.98	30.40	5.96						
	67	64.72	45.84	4.04	61.45	44.80	4.44	58.02	43.29	4.89	54.41	41.93	53.61	41.63	5.26						
	63††	60.47	44.25	4.00	57.44	43.01	4.40	54.25	41.71	4.85	50.90	40.35	47.32	38.89	5.87						
	62	59.81	59.81	3.99	57.30	57.30	4.40	54.64	54.64	4.85	51.80	51.80	48.70	48.70	5.89						
	57	59.79	59.79	3.99	57.30	57.30	4.40	54.64	54.64	4.85	51.80	51.80	48.71	48.71	5.89						

Cooling Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)060	1.00	1.00	
FE4ANB006	1.00	1.00	
FV4BNB006	1.00	1.00	
FY4ANB060	0.98	1.05	
CAP**6021A**	0.98	1.05	
CAP**6024A**	0.98	1.05	
CNPH*6024A**	0.97	1.04	
CNPV*6024A**	0.97	1.04	
CSPH*6012A**	0.98	1.05	58CV(A,X)110-20
CAP**6021A**	0.98	1.03	58CV(A,X)110-20
CNPH*6024A**	0.97	1.02	58CV(A,X)110-20
CSPH*6012A**	0.98	1.03	58CV(A,X)135-22
CAP**6024A**	0.98	1.03	58CV(A,X)135-22
CNPH*6024A**	0.98	1.03	58CV(A,X)135-22
CNPV*6024A**	0.98	1.03	58CV(A,X)135-22
CSPH*6012A**	0.98	1.03	58CV(A,X)135-22
CAP**6021A**	0.98	1.03	58CV(A,X)135-22
CNPH*6024A**	0.98	1.03	58CV(A,X)155-22
CNPV*6024A**	0.98	1.03	58CV(A,X)155-22
CSPH*6012A**	0.98	1.03	58CV(A,X)155-22
CAP**6021A**	0.99	0.99	58CV(A,X)155-22

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

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

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-94. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

** 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.

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	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 System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT							
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*							
25HBA418A31 Outdoor Section With FX4CNF018 Indoor Section																								
65	525	6.29	5.79	1.14	8.20	7.53	1.18	10.23	9.32	1.23	12.40	11.02	1.27	14.88	13.52	1.34	17.58	17.58	1.41	20.20	20.20	22.68	22.68	1.54
	600	6.45	5.93	1.15	8.37	7.69	1.19	10.44	9.52	1.23	12.64	11.22	1.27	15.16	13.80	1.32	17.84	17.84	1.38	20.26	20.26	22.69	22.69	1.49
	675	6.59	6.06	1.17	8.53	7.84	1.21	10.61	9.67	1.24	12.84	11.40	1.28	15.39	14.01	1.32	18.10	18.10	1.37	20.28	20.28	22.55	22.55	1.47
70	525	5.95	5.48	1.18	7.94	7.30	1.23	9.96	9.08	1.28	12.13	10.78	1.34	14.54	13.24	1.40	17.26	17.26	1.48	19.97	19.97	22.44	22.44	1.62
	600	6.11	5.62	1.20	8.10	7.44	1.25	10.15	9.26	1.29	12.35	10.97	1.33	14.82	13.48	1.39	17.60	17.60	1.46	20.05	20.05	22.52	22.52	1.57
	675	6.26	5.75	1.22	8.25	7.58	1.26	10.32	9.41	1.30	12.54	11.14	1.33	15.05	13.70	1.38	17.76	17.76	1.44	20.10	20.10	22.44	22.44	1.54
75	525	5.60	5.15	1.22	7.62	7.00	1.29	9.68	8.83	1.34	11.87	10.54	1.40	14.23	12.95	1.47	16.94	16.94	1.55	19.72	19.72	22.19	22.19	1.71
	600	5.76	5.30	1.24	7.79	7.16	1.30	9.88	9.00	1.35	12.08	10.73	1.40	14.51	13.20	1.45	17.24	17.24	1.53	19.90	19.90	22.31	22.31	1.65
	675	5.90	5.43	1.26	7.95	7.31	1.31	10.05	9.17	1.36	12.27	10.90	1.40	14.73	13.41	1.45	17.48	17.48	1.51	19.92	19.92	22.30	22.30	1.62

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CNF018	1.00	1.00	
FF1ENP018	1.02	1.09	
FF1ENP024	1.02	1.07	
FV4BNF002	0.98	0.96	
FX4CNF024	0.99	0.97	
FY4ANF018	1.02	1.09	
FY4ANF024	1.02	1.08	
CAP**1814A**	1.02	1.10	
CAP**2414A**	1.02	1.05	
CAP**2417A**	1.02	1.05	
CNPF*2418A**	1.02	1.04	
CNPH*2417A**	1.02	1.04	
CNPV*1814A**	1.02	1.05	
CNPV*2414A**	1.02	1.04	
CNPV*2417A**	1.02	1.04	
CSPH*2412A**	1.01	1.04	
CAP**1814A**	0.97	1.04	56CV(A.X)070-12
CAP**2414A**	0.98	1.01	56CV(A.X)070-12
CNPH*2417A**	0.99	1.00	56CV(A.X)070-12
CNPV*1814A**	0.97	1.00	56CV(A.X)070-12
CNPV*2414A**	0.98	1.00	56CV(A.X)070-12
CSPH*2412A**	0.98	0.99	56CV(A.X)070-12
CAP**2417A**	0.98	0.99	56CV(A.X)090-16
CNPH*2417A**	0.98	0.98	56CV(A.X)090-16
CNPV*2417A**	0.98	0.98	56CV(A.X)090-16
CSPH*2412A**	0.98	0.99	56CV(A.X)090-16
CNPH*2417A**	0.99	1.00	58MV/B040-14
CSPH*2412A**	0.98	0.99	58MV/B040-14
CAP**2417A**	0.98	1.00	58MV/B060-14
CNPH*2417A**	0.98	0.99	58MV/B060-14
CNPV*2417A**	0.98	0.99	58MV/B060-14
CSPH*2412A**	0.98	0.99	58MV/B060-14
CNPH*2417A**	0.99	1.00	58MV/B080-14
CSPH*2412A**	0.98	0.99	58MV/B080-14
CAP**2417A**	0.98	1.00	58UV/B060-14

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR				OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
EDB	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	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*	Capacity MBtuh Total	Total System KWT Integ*								
25HBA24A31 Outdoor Section With F4XCNF024 Indoor Section																									
65	700	9.50	8.74	1.44	11.88	10.92	1.50	14.46	13.18	1.57	17.37	15.43	1.65	20.84	18.79	1.76	24.00	24.00	1.85	26.92	26.92	1.94	29.90	29.90	2.05
	800	9.69	8.92	1.45	12.09	11.11	1.51	14.69	13.39	1.57	17.65	15.67	1.64	20.97	19.08	1.74	23.97	23.97	1.81	26.71	26.71	1.89	29.35	29.35	1.97
	900	9.86	9.07	1.47	12.27	11.27	1.52	14.90	13.59	1.57	17.91	15.90	1.65	21.22	19.31	1.73	23.87	23.87	1.79	26.37	26.37	1.86	28.63	28.63	1.92
70	700	9.21	8.47	1.50	11.60	10.66	1.57	14.18	12.93	1.65	17.04	15.13	1.73	20.30	18.47	1.84	23.75	23.75	1.95	26.72	26.72	2.05	29.76	29.76	2.16
	800	9.40	8.64	1.52	11.81	10.85	1.58	14.41	13.14	1.64	17.32	15.38	1.72	20.61	18.76	1.82	23.80	23.80	1.90	26.61	26.61	1.99	29.36	29.36	2.08
	900	9.57	8.80	1.54	11.99	11.02	1.59	14.61	13.32	1.65	17.56	15.59	1.72	20.88	19.00	1.82	23.77	23.77	1.88	26.38	26.38	1.96	28.79	28.79	2.03
75	700	8.89	8.18	1.57	11.31	10.39	1.65	13.90	12.67	1.73	16.71	14.84	1.82	19.97	18.17	1.93	23.43	23.43	2.05	26.49	26.49	2.15	29.55	29.55	2.27
	800	9.08	8.35	1.59	11.52	10.58	1.66	14.13	12.88	1.73	16.99	15.09	1.81	20.27	18.44	1.91	23.64	23.64	2.00	26.45	26.45	2.09	29.30	29.30	2.19
	900	9.25	8.51	1.61	11.70	10.75	1.67	14.33	13.06	1.73	17.23	15.30	1.81	20.53	18.68	1.91	23.62	23.62	1.98	26.31	26.31	2.06	28.86	28.86	2.14

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CNF024	1.00	1.00	
FE4ANF002	0.97	0.95	
FE4ANF003	0.97	0.95	
FF1ENP024	1.01	1.07	
FF1ENP030	1.02	1.06	
FV4BNF002	0.97	0.95	
FV4BNF003	0.97	0.95	
FX4CNF030	0.99	0.96	
FY4ANF024	1.01	1.06	
FY4ANF030	1.01	1.03	
CAP**2414A**	1.03	1.06	
CAP**2417A**	1.03	1.06	
CAP**3014A**	0.98	1.03	
CAP**3017A**	0.98	1.03	
CNPF*2418A**	1.03	1.03	
CNPH*2417A**	1.03	1.03	
CNPH*3017A**	0.98	1.03	
CNPV*2414A**	1.03	1.03	
CNPV*2417A**	1.03	1.03	
CNPV*3014A**	0.98	1.03	
CNPV*3017A**	0.98	1.03	
CSPH*2412A**	1.02	1.03	
CSPH*3012A**	0.97	1.02	
CAP**2414A**	0.98	1.01	58CV(A.X)070-12
CAP**3014A**	0.97	0.99	58CV(A.X)070-12
CNPH*2417A**	0.98	0.99	58CV(A.X)070-12
CNPH*3017A**	0.98	0.99	58CV(A.X)070-12
CNPV*2414A**	0.97	0.98	58CV(A.X)070-12
CNPV*2417A**	0.98	0.99	58CV(A.X)070-12
CNPV*3014A**	0.97	0.98	58CV(A.X)070-12
CNPV*3017A**	0.98	0.99	58CV(A.X)070-12
CSPH*2412A**	0.97	0.98	58CV(A.X)070-12
CSPH*3012A**	0.98	0.99	58CV(A.X)070-12
CAP**2417A**	0.98	1.00	58CV(A.X)090-16
CAP**3017A**	0.97	0.97	58CV(A.X)090-16
CNPH*2417A**	0.98	0.98	58CV(A.X)090-16
CNPH*3017A**	0.97	0.97	58CV(A.X)090-16
CNPV*2417A**	0.98	0.98	58CV(A.X)090-16
CNPV*3017A**	0.97	0.97	58CV(A.X)090-16
CSPH*2412A**	0.96	0.96	58CV(A.X)090-16
CSPH*3012A**	0.96	0.97	58CV(A.X)090-16
CNPV*2417A**	0.98	0.98	58CV(A.X)110-20
CNPV*3017A**	0.97	0.97	58CV(A.X)110-20

Heating Indoor Model	Capacity	Power	Furnace Model
CSPH*2412A**	0.98	0.98	58CV(A.X)110-20
CSPH*3012A**	0.96	0.97	58CV(A.X)135-22
CNPH*2417A**	0.97	0.97	58CV(A.X)135-22
CNPH*3017A**	0.98	0.98	58CV(A.X)135-22
CSPH*2412A**	0.96	0.97	58CV(A.X)135-22
CSPH*3012A**	0.96	0.98	58CV(A.X)155-22
CNPH*2417A**	0.98	0.97	58CV(A.X)155-22
CNPH*3017A**	0.97	0.97	58CV(A.X)155-22
CSPH*2412A**	0.98	0.98	58CV(A.X)155-22
CSPH*3012A**	0.96	0.97	58CV(A.X)155-22
CNPH*2417A**	0.98	0.99	58MB040-14
CNPH*3017A**	0.97	0.98	58MB040-14
CSPH*2412A**	0.98	0.98	58MB040-14
CAP**2417A**	0.96	0.97	58MB040-14
CAP**3017A**	0.97	1.01	58MB060-14
CNPH*2417A**	0.98	0.98	58MB060-14
CNPH*3017A**	0.98	0.99	58MB060-14
CNPV*2417A**	0.98	0.98	58MB060-14
CNPV*3017A**	0.97	0.99	58MB060-14
CSPH*2412A**	0.98	0.98	58MB060-14
CSPH*3012A**	0.96	0.97	58MB060-14
CNPH*2417A**	0.98	0.98	58MB080-14
CNPH*3017A**	0.97	0.98	58MB080-14
CSPH*2412A**	0.98	0.98	58MB080-14
CSPH*3012A**	0.96	0.97	58MB080-14
CNPH*2417A**	0.98	0.99	58MB080-20
CNPH*3017A**	0.97	0.98	58MB080-20
CSPH*2412A**	0.98	0.98	58MB080-20
CSPH*3012A**	0.96	0.97	58MB080-20
CNPH*2417A**	0.98	0.98	58MB100-20
CNPH*3017A**	0.97	0.97	58MB100-20
CSPH*2412A**	0.98	0.97	58MB100-20
CSPH*3012A**	0.96	0.97	58MB100-20
CNPH*2417A**	0.98	1.00	58MB120-20
CNPH*3017A**	0.97	0.98	58MB120-20
CSPH*2412A**	0.98	0.98	58MB120-20
CSPH*3012A**	0.96	0.99	58MB120-20
CAP**2417A**	0.98	1.01	58MB060-14
CAP**3017A**	0.97	0.98	58MB060-14
CNPV*2417A**	0.98	0.99	58MB060-14

Heating Indoor Model	Capacity	Power	Furnace Model
CNPV*3017A**	0.97	0.98	58MB060-14

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
EDB	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 System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT		Capacity MBtuh	Total System KWT	
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
65	875	12.63	11.62	1.99	15.82	14.53	2.10	19.22	17.52	2.20	22.83	20.28	2.32	26.91	24.49	2.46	31.39	31.39	2.63	36.61	36.61	2.85	42.25	42.25	3.06
	1000	12.89	11.86	2.01	16.10	14.80	2.10	19.53	17.80	2.20	23.19	20.60	2.30	27.36	24.90	2.43	31.93	31.93	2.58	37.30	37.30	2.77	42.79	42.79	2.95
	1125	13.12	12.07	2.03	16.35	15.03	2.12	19.80	18.05	2.20	23.51	20.88	2.29	27.71	25.22	2.41	32.39	32.39	2.55	37.82	37.82	2.72	43.11	43.11	2.88
70	875	12.17	11.19	2.08	15.40	14.15	2.19	18.82	17.16	2.31	22.45	19.94	2.43	26.42	24.04	2.58	30.88	30.88	2.76	35.97	35.97	2.99	41.66	41.66	3.21
	1000	12.43	11.43	2.10	15.69	14.42	2.20	19.14	17.45	2.30	22.80	20.25	2.41	26.86	24.44	2.54	31.40	31.40	2.70	36.66	36.66	2.91	42.23	42.23	3.09
	1125	12.68	11.65	2.12	15.94	14.65	2.21	19.41	17.70	2.31	23.10	20.51	2.41	27.29	24.84	2.53	31.84	31.84	2.67	37.22	37.22	2.85	42.61	42.61	3.02
75	875	11.66	10.73	2.16	14.96	13.74	2.29	18.40	16.78	2.42	22.05	19.59	2.55	25.96	23.62	2.70	30.39	30.39	2.89	35.35	35.35	3.12	41.02	41.02	3.36
	1000	11.93	10.97	2.18	15.24	14.01	2.30	18.72	17.07	2.41	22.41	19.90	2.53	26.39	24.01	2.67	30.89	30.89	2.84	36.03	36.03	3.05	41.68	41.68	3.24
	1125	12.17	11.20	2.21	15.50	14.24	2.31	19.00	17.32	2.42	22.71	20.17	2.52	26.76	24.35	2.65	31.31	31.31	2.80	36.57	36.57	3.00	42.07	42.07	3.17

Heating Indoor Model	Capacity	Power	Furnace Model	Heating Indoor Model	Capacity	Power	Furnace Model	Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CNF030	1.00	1.00		CNPH*3621A**	0.98	1.01	58CV(A.X)110-20	CNPH*3617A**	0.98	1.02	58MVB120-20
FF1ENP030	1.01	1.07		CSPH*3012A**	0.98	1.01	58CV(A.X)110-20	CNPH*3617A**	0.98	1.02	58MVB120-20
FF1ENP036	1.02	1.05		CSPH*3612A**	0.97	0.98	58CV(A.X)110-20	CSPH*3012A**	0.98	1.02	58MVB120-20
FV4BNF002	0.99	1.00		CNPH*3017A**	0.99	1.00	58CV(A.X)135-22	CSPH*3612A**	0.99	0.99	58MVB120-20
FV4BNF003	0.98	0.99		CNPH*3617A**	0.98	1.01	58CV(A.X)135-22	CAP**3017A**	0.98	1.02	58LVB060-14
FV4BNF005	0.98	0.93		CSPH*3012A**	0.98	1.01	58CV(A.X)135-22	CAP**3617A**	0.98	1.02	58LVB060-14
FX4CN(B.F)036	1.01	0.99		CSPH*3612A**	0.99	0.98	58CV(A.X)135-22	CNPV*3017A**	0.98	1.02	58LVB060-14
FY4ANF030	1.02	1.06		CNPH*3017A**	0.97	1.00	58CV(A.X)155-22	CNPV*3617A**	0.98	1.02	58LVB060-14
FY4ANF036	1.03	1.06		CNPH*3617A**	0.98	1.01	58CV(A.X)155-22	CAP**3621A**	0.98	1.01	58LVB060-14
CAP**3014A**	1.02	1.06		CSPH*3012A**	0.98	1.01	58CV(A.X)155-22	CNPV*3621A**	0.98	1.02	58LVB060-14
CAP**3017A**	1.02	1.06		CSPH*3612A**	0.99	0.98	58CV(A.X)155-22	CAP**3621A**	0.98	1.01	58LVB060-14
CAP**3614A**	1.03	1.05		CNPH*3017A**	0.98	1.02	58MVB040-14	CNPV*3621A**	0.98	1.02	58LVB060-20
CAP**3617A**	1.03	1.05		CNPH*3617A**	0.98	1.02	58MVB040-14	CNPV*3621A**	0.98	1.01	58LVB100-20
CAP**3621A**	1.03	1.05		CSPH*3012A**	0.98	1.02	58MVB040-14	CNPV*3621A**	0.98	1.02	58LVB100-20
CNPF*3618A**	1.02	1.05		CSPH*3612A**	0.99	0.99	58MVB040-14				
CNPH*3017A**	1.02	1.05		CAP**3017A**	0.98	1.02	58MVB060-14				
CNPH*3617A**	1.02	1.05		CAP**3617A**	0.98	1.02	58MVB060-14				
CNPV*3014A**	1.02	1.05		CNPH*3017A**	0.98	1.02	58MVB060-14				
CNPV*3017A**	1.02	1.05		CNPH*3617A**	0.98	1.02	58MVB060-14				
CNPV*3617A**	1.02	1.05		CNPH*3617A**	0.98	1.02	58MVB060-14				
CNPV*3621A**	1.02	1.05		CNPV*3017A**	0.98	1.02	58MVB060-14				
CSPH*3012A**	1.02	1.04		CNPV*3617A**	0.98	1.02	58MVB060-14				
CSPH*3612A**	1.03	1.01		CSPH*3012A**	0.98	1.02	58MVB060-14				
CAP**3014A**	0.98	1.03	58CV(A.X)070-12	CAP**3621A**	0.98	1.01	58MVB060-14				
CAP**3614A**	0.99	1.02	58CV(A.X)070-12	CNPH*3621A**	0.98	1.01	58MVB060-14				
CNPH*3017A**	0.97	1.01	58CV(A.X)070-12	CNPH*3017A**	0.98	1.02	58MVB060-14				
CNPH*3617A**	0.98	1.02	58CV(A.X)070-12	CNPH*3617A**	0.98	1.02	58MVB060-14				
CNPV*3014A**	0.98	1.03	58CV(A.X)070-12	CNPV*3621A**	0.98	1.02	58MVB060-14				
CSPH*3012A**	0.98	1.02	58CV(A.X)070-12	CSPH*3012A**	0.98	1.02	58MVB060-14				
CSPH*3612A**	0.99	0.99	58CV(A.X)070-12	CSPH*3612A**	0.98	1.01	58MVB060-20				
CAP**3017A**	0.97	1.01	58CV(A.X)090-16	CAP**3621A**	0.98	1.02	58MVB060-20				
CAP**3617A**	0.98	1.01	58CV(A.X)090-16	CNPH*3017A**	0.98	1.02	58MVB060-20				
CNPH*3017A**	0.97	1.01	58CV(A.X)090-16	CNPH*3617A**	0.98	1.02	58MVB060-20				
CNPH*3617A**	0.98	1.01	58CV(A.X)090-16	CNPV*3621A**	0.98	1.02	58MVB060-20				
CNPV*3014A**	0.98	1.01	58CV(A.X)090-16	CSPH*3012A**	0.98	1.02	58MVB060-20				
CSPH*3012A**	0.98	1.01	58CV(A.X)090-16	CSPH*3612A**	0.99	0.99	58MVB060-20				
CNPV*3617A**	0.98	1.02	58CV(A.X)090-16	CAP**3621A**	0.98	1.01	58MVB100-20				
CSPH*3012A**	0.98	1.01	58CV(A.X)090-16	CNPH*3017A**	0.98	1.02	58MVB100-20				
CSPH*3612A**	0.99	0.98	58CV(A.X)090-16	CNPH*3617A**	0.98	1.02	58MVB100-20				
CAP**3621A**	0.98	1.00	58CV(A.X)110-20	CSPH*3012A**	0.98	1.02	58MVB100-20				
CNPH*3017A**	0.97	1.00	58CV(A.X)110-20	CSPH*3612A**	0.99	1.01	58MVB100-20				
CNPH*3617A**	0.98	1.01	58CV(A.X)110-20								

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)									
		-3 (-19.4)		7 (-13.9)		17 (-6.3)		27 (-2.8)		37 (2.8)	
		Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT
EDB	CFM	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*
65	1050	14.42	13.26	2.06	18.08	16.62	2.16	21.96	20.02	2.26	23.15
	1200	14.73	13.55	2.09	18.42	16.93	2.18	22.32	20.35	2.27	23.51
	1350	15.02	13.82	2.13	18.72	17.20	2.21	22.64	20.65	2.29	23.84
	1050	13.87	12.76	2.14	17.59	16.16	2.25	21.50	19.61	2.36	22.77
70	1200	14.19	13.05	2.17	17.93	16.48	2.27	21.88	19.95	2.37	23.12
	1350	14.48	13.32	2.21	18.24	16.76	2.30	22.21	20.25	2.40	23.44
	1050	13.27	12.21	2.22	17.06	15.68	2.34	21.01	19.16	2.46	22.36
	1200	13.58	12.49	2.25	17.41	16.00	2.37	21.39	19.50	2.48	22.72
75	1350	13.87	12.76	2.29	17.72	16.28	2.40	21.73	19.81	2.50	23.03
	1050	14.42	13.26	2.06	18.08	16.62	2.16	21.96	20.02	2.26	23.15
	1200	14.73	13.55	2.09	18.42	16.93	2.18	22.32	20.35	2.27	23.51
	1350	15.02	13.82	2.13	18.72	17.20	2.21	22.64	20.65	2.29	23.84
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1050	13.87	12.76	2.14	17.59	16.16	2.25	21.50	19.61	2.36	22.77
	1200	14.19	13.05	2.17	17.93	16.48	2.27	21.88	19.95	2.37	23.12
	1350	14.48	13.32	2.21	18.24	16.76	2.30	22.21	20.25	2.40	23.44
	1050	13.27	12.21	2.22	17.06	15.68	2.34	21.01	19.16	2.46	22.36
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1200	13.58	12.49	2.25	17.41	16.00	2.37	21.39	19.50	2.48	22.72
	1350	13.87	12.76	2.29	17.72	16.28	2.40	21.73	19.81	2.50	23.03
	1050	14.42	13.26	2.06	18.08	16.62	2.16	21.96	20.02	2.26	23.15
	1200	14.73	13.55	2.09	18.42	16.93	2.18	22.32	20.35	2.27	23.51
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1350	15.02	13.82	2.13	18.72	17.20	2.21	22.64	20.65	2.29	23.84
	1050	13.87	12.76	2.14	17.59	16.16	2.25	21.50	19.61	2.36	22.77
	1200	14.19	13.05	2.17	17.93	16.48	2.27	21.88	19.95	2.37	23.12
	1350	14.48	13.32	2.21	18.24	16.76	2.30	22.21	20.25	2.40	23.44
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1050	13.27	12.21	2.22	17.06	15.68	2.34	21.01	19.16	2.46	22.36
	1200	13.58	12.49	2.25	17.41	16.00	2.37	21.39	19.50	2.48	22.72
	1350	13.87	12.76	2.29	17.72	16.28	2.40	21.73	19.81	2.50	23.03
	1050	14.42	13.26	2.06	18.08	16.62	2.16	21.96	20.02	2.26	23.15
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1200	14.73	13.55	2.09	18.42	16.93	2.18	22.32	20.35	2.27	23.51
	1350	15.02	13.82	2.13	18.72	17.20	2.21	22.64	20.65	2.29	23.84
	1050	13.87	12.76	2.14	17.59	16.16	2.25	21.50	19.61	2.36	22.77
	1200	14.19	13.05	2.17	17.93	16.48	2.27	21.88	19.95	2.37	23.12
25HBA436A32 Outdoor Section With Fx4CN(B,F)036 Indoor Section	1350	14.48	13.32	2.21	18.24	16.76	2.30	22.21	20.25	2.40	23.44
	1050	13.27	12.21	2.22	17.06	15.68	2.34	21.01	19.16	2.46	22.36
	1200	13.58	12.49	2.25	17.41	16.00	2.37	21.39	19.50	2.48	22.72
	1350	13.87	12.76	2.29	17.72	16.28	2.40	21.73	19.81	2.50	23.03

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)036	1.00	1.00	
FF1ENP036	1.01	1.07	
FV4BN(B,F)003	0.99	0.99	
FV4BN(B,F)005	0.91	0.91	
FV4BNF002	1.00	1.01	
FX4CN(B,F)042	0.97	0.97	
FY4ANF036	1.02	1.07	
FY4ANF042	0.98	1.03	
CAP**3614A**	1.01	1.06	
CAP**3617A**	1.01	1.06	
CAP**3621A**	1.01	1.06	
CAP**4224A**	1.00	1.04	
CAP**4224A**	1.00	1.04	
CNP**3618A**	1.02	1.06	
CNP**3617A**	1.02	1.06	
CNP**4221A**	1.01	1.04	
CNPV**3617A**	1.02	1.06	
CNPV**3621A**	1.02	1.06	
CNPV**4221A**	1.01	1.04	
CSPH**3612A**	0.99	1.02	
CSPH**4212A**	0.98	1.00	
CAP**3614A**	0.99	1.03	58CV(A,X)070-12
CNP**4212A**	0.99	1.04	58CV(A,X)070-12
CNP**3617A**	0.99	1.01	58CV(A,X)070-12
CNP**4221A**	0.98	1.06	58CV(A,X)070-12
CSPH**3612A**	0.98	0.99	58CV(A,X)070-12
CSPH**4212A**	0.97	0.98	58CV(A,X)070-12
CAP**3617A**	0.99	1.01	58CV(A,X)090-16
CNP**3617A**	0.99	1.02	58CV(A,X)090-16
CNP**4221A**	0.98	0.99	58CV(A,X)090-16
CNPV**3617A**	0.99	1.02	58CV(A,X)090-16
CNPV**4221A**	0.98	1.06	58CV(A,X)090-16
CSPH**3612A**	0.97	0.96	58CV(A,X)090-16
CSPH**4212A**	0.98	1.00	58CV(A,X)110-20
CAP**4221A**	0.99	0.99	58CV(A,X)110-20
CNP**4212A**	0.98	1.02	58CV(A,X)110-20
CNP**3617A**	0.98	1.03	58CV(A,X)110-20
CNP**4221A**	0.98	1.03	58CV(A,X)110-20
CNPV**3617A**	0.99	1.01	58CV(A,X)110-20
CNPV**4221A**	0.98	1.06	58CV(A,X)110-20
CSPH**3612A**	0.97	0.97	58CV(A,X)110-20
CSPH**4212A**	0.98	1.00	58CV(A,X)110-20
CAP**4224A**	0.98	1.03	58CV(A,X)135-22

Heating Indoor Model	Capacity	Power	Furnace Model
CNPV**4221A**	0.99	1.02	58CV(A,X)135-22
CSPH**3612A**	0.98	0.99	58CV(A,X)135-22
CSPH**4212A**	0.97	0.95	58CV(A,X)135-22
CAP**4224A**	0.98	0.97	58CV(A,X)155-22
CNP**3617A**	0.99	1.01	58CV(A,X)155-22
CNP**4221A**	0.98	0.98	58CV(A,X)155-22
CSPH**3612A**	0.97	0.96	58CV(A,X)155-22
CSPH**4212A**	0.97	0.95	58CV(A,X)155-22
CAP**4224A**	0.98	1.01	58MV8040-14
CNP**3617A**	0.99	1.04	58MV8040-14
CNP**4221A**	0.99	1.01	58MV8040-14
CSPH**3612A**	0.98	1.00	58MV8040-14
CSPH**4212A**	0.97	0.98	58MV8040-14
CAP**3617A**	0.99	1.02	58MV8060-14
CNP**3617A**	0.99	1.03	58MV8060-14
CNP**4221A**	0.98	1.00	58MV8060-14
CNPV**3617A**	0.99	1.03	58MV8060-14
CNPV**4221A**	0.98	0.98	58MV8060-14
CSPH**3612A**	0.97	0.97	58MV8060-14
CSPH**4212A**	0.99	1.03	58MV8080-14
CAP**3621A**	0.98	1.01	58MV8080-14
CNP**4221A**	0.98	1.05	58MV8080-14
CNP**3617A**	0.99	1.02	58MV8080-14
CNP**4221A**	0.99	1.04	58MV8080-14
CNPV**4221A**	0.99	1.02	58MV8080-14
CSPH**3612A**	0.98	1.00	58MV8080-14
CSPH**4212A**	0.97	0.98	58MV8080-14
CAP**3617A**	0.99	1.02	58MV8080-20
CNP**3617A**	0.99	1.03	58MV8080-20
CNP**4221A**	0.98	1.00	58MV8080-20
CNPV**3617A**	0.99	1.01	58MV8080-20
CNPV**4221A**	0.98	0.98	58MV8080-20
CSPH**3612A**	0.97	0.97	58MV8080-20
CSPH**4212A**	0.98	1.01	58MV8100-20
CAP**4221A**	0.98	1.00	58MV8100-20
CNP**3617A**	0.99	1.03	58MV8100-20
CNP**4221A**	0.98	1.00	58MV8100-20
CNPV**3617A**	0.99	1.03	58MV8100-20
CNPV**4221A**	0.97	0.96	58MV8100-20
CSPH**4212A**	0.98	1.00	58MV8100-20
CAP**4224A**	0.98	1.03	58MV8100-20

Heating Indoor Model	Capacity	Power	Furnace Model
CNPV**4221A**	0.99	1.00	58MV8100-20
CSPH**3612A**	0.98	0.98	58MV8100-20
CAP**4224A**	0.98	0.99	58MV8100-20
CNP**3617A**	0.99	1.03	58MV8100-20
CNP**4221A**	0.98	1.00	58MV8100-20
CSPH**3612A**	0.98	0.98	58MV8100-20
CSPH**4212A**	0.97	0.97	58MV8100-20
CAP**3617A**	0.99	1.02	58UV8080-14
CAP**3621A**	0.99	1.03	58UV8080-14
CAP**4221A**	0.98	1.01	58UV8080-14
CAP**3621A**	0.99	1.02	58UV8080-20
CAP**4221A**	0.98	1.00	58UV8080-20
CAP**3621A**	0.98	1.01	58UV8100-20
CAP**4221A**	0.98	1.00	58UV8100-20
CAP**4224A**	0.98	0.99	58UV8120-20

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR				OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																		
EDB	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 System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT					
65	1225	17.53	16.13	2.60	21.61	19.86	2.70	26.00	23.71	2.82	30.74	27.30	2.95	36.21	33.95	3.12	42.09	3.28	47.60	3.44	53.07	3.63
	1400	17.88	16.45	2.63	21.99	20.20	2.73	26.39	24.06	2.83	31.20	27.71	2.95	36.75	33.44	3.10	42.44	3.23	47.57	3.37	52.73	3.53
	1575	18.21	16.75	2.68	22.32	20.51	2.76	26.75	24.39	2.85	31.61	28.08	2.96	37.22	33.87	3.11	42.50	3.21	47.37	3.34	52.15	3.47
	1740	17.06	15.69	2.71	21.17	19.45	2.83	25.58	23.32	2.95	30.29	26.90	3.09	35.68	32.47	3.26	41.58	3.45	47.11	3.61	52.62	3.80
70	1400	17.40	16.01	2.75	21.52	19.78	2.85	25.97	23.68	2.96	30.69	27.26	3.09	36.21	32.96	3.25	42.00	3.39	47.24	3.54	52.50	3.70
	1575	17.74	16.32	2.79	21.88	20.11	2.89	26.32	24.00	2.99	31.11	27.63	3.10	36.68	33.38	3.25	42.19	3.37	47.15	3.50	52.04	3.64
	1740	16.54	15.21	2.83	20.69	19.02	2.96	25.13	22.91	3.09	29.85	26.51	3.24	35.03	31.88	3.41	41.04	3.62	46.60	3.78	52.13	3.98
	1400	16.89	15.54	2.87	21.08	19.37	2.98	25.53	23.28	3.10	30.29	26.90	3.23	35.58	32.38	3.39	41.57	3.56	46.84	3.71	52.10	3.88
75	1575	17.21	15.83	2.91	21.41	19.67	3.02	25.90	23.62	3.12	30.67	27.24	3.25	36.15	32.90	3.40	41.81	3.53	46.84	3.67	51.83	3.82
	1740	17.21	15.83	2.91	21.41	19.67	3.02	25.90	23.62	3.12	30.67	27.24	3.25	36.15	32.90	3.40	41.81	3.53	46.84	3.67	51.83	3.82
	1400	17.21	15.83	2.91	21.41	19.67	3.02	25.90	23.62	3.12	30.67	27.24	3.25	36.15	32.90	3.40	41.81	3.53	46.84	3.67	51.83	3.82
	1575	17.21	15.83	2.91	21.41	19.67	3.02	25.90	23.62	3.12	30.67	27.24	3.25	36.15	32.90	3.40	41.81	3.53	46.84	3.67	51.83	3.82
25BHA442A31 Outdoor Section With F44CN(B,F)042 Indoor Section																						

Heating Indoor Model		Capacity		Power		Furnace Model		Heating Indoor Model		Capacity		Power		Furnace Model		Heating Indoor Model		Capacity		Power		Furnace Model	
*F4XCN(B)F042		1.00	1.00	1.00				CAP**4824A**		0.98		0.98		58CV(A)135-22		CAP**4824A**		0.98		0.98		58CV(A)135-22	
FE4ANB006		0.94		0.94				CNPH*4821A**		0.98		1.01		58CV(A)135-22		CNPH*4821A**		0.98		0.99		58MB100-20	
FE4ANF003		0.98		0.98				CNPH*4824A**		0.98		0.98		58CV(A)135-22		CNPH*4824A**		0.98		0.99		58MB100-20	
FV4BNB006		0.94		0.94				CSPH*4821A**		0.98		0.98		58CV(A)135-22		CSPH*4821A**		0.98		1.02		58MB100-20	
FV4BNF003		0.98		1.05				CSPH*4812A**		0.98		0.97		58CV(A)135-22		CSPH*4812A**		0.98		0.99		58MB100-20	
FV4BNF005		0.96		0.98				CAP**4824A**		0.98		1.02		58CV(A)155-22		CSPH*4812A**		0.98		0.99		58MB100-20	
F4XCN(B)F048		0.95		0.94				CAP**4824A**		0.98		0.98		58CV(A)155-22		CSPH*4812A**		0.98		0.98		58MB100-20	
F4YANF042		1.00		1.05				CNPH*4821A**		0.98		1.01		58CV(A)155-22		CAP**4824A**		0.98		1.04		58MB120-20	
F4YANF048		0.98		1.02				CNPH*4821A**		0.98		0.98		58CV(A)155-22		CAP**4824A**		0.98		0.99		58MB120-20	
CAP**4824A**		1.01		1.07				CNPH*4824A**		0.98		0.98		58CV(A)155-22		CNPH*4821A**		0.98		1.03		58MB120-20	
CAP**4817A**		0.98		1.00				CSPH*4812A**		0.98		0.97		58CV(A)155-22		CNPH*4821A**		0.98		0.99		58MB120-20	
CAP**4821A**		1.00		1.02				CAP**4824A**		0.98		1.05		58MB040-14		CSPH*4821A**		0.98		1.00		58MB120-20	
CAP**4824A**		1.00		1.02				CAP**4824A**		0.98		1.00		58MB040-14		CSPH*4812A**		0.98		0.98		58MB120-20	
CNPF*4818A**		0.98		1.01				CNPH*4821A**		0.98		1.04		58MB040-14		CAP**4817A**		0.95		0.97		58MB080-14	
CNPH*4821A**		1.01		1.07				CNPH*4821A**		0.98		1.00		58MB040-14		CAP**4821A**		0.98		1.06		58MB080-14	
CNPH*4821A**		1.00		1.02				CNPH*4824A**		0.98		1.00		58MB040-14		CAP**4821A**		0.98		1.01		58MB080-14	
CNPV*4821A**		1.01		1.07				CSPH*4812A**		0.98		1.01		58MB040-14		CNPV*4821A**		0.98		1.04		58MB080-14	
CNPV*4821A**		1.00		1.02				CSPH*4812A**		0.98		1.00		58MB040-14		CNPV*4821A**		0.98		1.01		58MB080-14	
CNPV*4824A**		1.00		1.02				CAP**4817A**		0.95		0.97		58MB080-14		CAP**4821A**		0.98		1.04		58MB080-20	
CSPH*4812A**		1.01		1.07				CNPH*4821A**		0.98		1.03		58MB080-14		CAP**4821A**		0.98		1.00		58MB080-20	
CSPH*4812A**		1.00		1.01				CNPH*4821A**		0.98		1.00		58MB080-14		CNPV*4821A**		0.98		1.03		58MB080-20	
CNPH*4821A**		0.98		1.04				CSPH*4812A**		0.98		1.00		58MB080-14		CNPV*4821A**		0.98		1.00		58MB080-20	
CNPH*4821A**		0.98		1.00				CSPH*4812A**		0.98		0.99		58MB080-14		CAP**4821A**		0.98		1.04		58MB080-20	
CSPH*4812A**		0.98		1.01				CAP**4821A**		0.98		1.06		58MB080-14		CAP**4821A**		0.98		0.99		58MB100-20	
CSPH*4812A**		0.98		1.00				CAP**4821A**		0.98		1.01		58MB080-14		CNPV*4821A**		0.98		1.02		58MB100-20	
CAP**4817A**		0.95		0.96				CNPH*4821A**		0.98		1.04		58MB080-14		CNPV*4821A**		0.98		0.99		58MB100-20	
CNPH*4821A**		0.98		1.02				CNPH*4821A**		0.98		1.01		58MB080-14		CAP**4824A**		0.98		1.04		58MB120-20	
CNPH*4821A**		0.98		0.99				CNPV*4821A**		0.98		1.04		58MB080-14		CAP**4824A**		0.98		0.99		58MB120-20	
CSPH*4812A**		0.98		0.98				CNPV*4821A**		0.98		1.01		58MB080-14		CNPV*4821A**		0.98		0.99		58MB120-20	
CSPH*4812A**		0.98		0.98				CSPH*4812A**		0.98		1.01		58MB080-14		CNPV*4821A**		0.98		0.99		58MB120-20	
CAP**4821A**		0.98		1.03				CSPH*4812A**		0.98		1.00		58MB080-14		CNPV*4821A**		0.98		1.00		58MB120-20	
CAP**4821A**		0.98		0.98				CAP**4821A**		0.98		1.04		58MB080-20		CNPV*4821A**		0.98		1.00		58MB120-20	
CNPH*4821A**		0.98		1.01				CAP**4821A**		0.98		1.03		58MB080-20		CNPV*4821A**		0.98		1.00		58MB120-20	
CNPH*4821A**		0.98		0.98				CNPH*4821A**		0.98		1.03		58MB080-20		CNPV*4821A**		0.98		1.03		58MB120-20	
CNPV*4821A**		0.98		1.01				CNPH*4821A**		0.98		1.00		58MB080-20		CNPV*4821A**		0.98		1.03		58MB120-20	
CNPV*4821A**		0.98		0.98				CNPV*4821A**		0.98		1.00		58MB080-20		CNPV*4821A**		0.98		1.00		58MB120-20	
CSPH*4812A**		0.98		0.98				CSPH*4812A**		0.98		1.00		58MB080-20		CSPH*4812A**		0.98		1.00		58MB120-20	
CAP**4824A**		0.98		1.02				CSPH*4812A**		0.98		0.99		58MB080-20		CSPH*4812A**		0.98		0.99		58MB120-20	

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)									
		-3 (-19.4)		7 (-13.9)		17 (-5.3)		27 (-2.8)		37 (2.8)	
		Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT
EDB	CFM	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*
65	1400	20.59	18.95	25.16	23.12	30.06	27.41	32.20	31.53	37.97	34.9
	1600	20.97	19.29	25.56	23.49	30.49	27.80	32.32	31.99	38.38	34.7
	1800	21.33	19.62	25.94	23.83	30.88	28.15	32.35	32.43	38.52	34.7
	1400	20.13	18.52	24.71	22.70	29.63	27.02	31.95	30.50	37.45	3.67
70	1600	20.51	18.87	25.12	23.08	30.07	27.41	31.95	31.53	37.97	34.9
	1800	20.88	19.20	25.49	23.43	30.46	27.78	32.40	31.92	38.25	3.64
	1400	19.63	18.06	24.23	22.27	29.19	26.61	31.50	30.62	36.94	3.86
	1600	20.02	18.41	24.65	22.65	29.63	27.01	31.52	31.44	37.47	3.82
75	1800	20.37	18.74	25.03	23.00	30.03	27.38	31.55	31.68	37.88	3.81
	25HBA448A0032010 Outdoor Section With F4ACN(B-F)048 Indoor Section										
	1400	20.59	18.95	25.16	23.12	30.06	27.41	32.20	31.53	37.97	34.9
	1600	20.97	19.29	25.56	23.49	30.49	27.80	32.32	31.99	38.38	34.7
	1800	21.33	19.62	25.94	23.83	30.88	28.15	32.35	32.43	38.52	34.7
	1400	20.13	18.52	24.71	22.70	29.63	27.02	31.95	30.50	37.45	3.67
	1600	20.51	18.87	25.12	23.08	30.07	27.41	31.95	31.53	37.97	34.9
	1800	20.88	19.20	25.49	23.43	30.46	27.78	32.40	31.92	38.25	3.64
	1400	19.63	18.06	24.23	22.27	29.19	26.61	31.50	30.62	36.94	3.86
	1600	20.02	18.41	24.65	22.65	29.63	27.01	31.52	31.44	37.47	3.82
	1800	20.37	18.74	25.03	23.00	30.03	27.38	31.55	31.68	37.88	3.81

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)048	1.00	1.00	58CV(A,X)155-22
FE4AN(B,F)005	0.99	0.99	58CV(A,X)155-22
FE4ANB006	0.98	0.95	58CV(A,X)155-22
FV4BN(B,F)005	0.99	0.99	58CV(A,X)155-22
FV4BNB006	0.98	0.95	58CV(A,X)155-22
FX4CN(B,F)060	0.97	0.96	58CV(A,X)155-22
FY4ANB060	0.97	1.01	58CV(A,X)155-22
FY4ANF048	1.01	1.05	58CV(A,X)155-22
CAP**4817A**	1.01	1.04	58MV080-20
CAP**4821A**	1.01	1.03	58MV080-20
CAP**4824A**	1.00	1.02	58MV080-20
CAP**6021A**	0.98	1.01	58MV080-20
CAP**6024A**	0.96	1.01	58MV080-20
CNPV*4818A**	1.01	1.09	58MV080-20
CNPV*4821A**	1.01	1.03	58MV080-20
CNPV*6024A**	1.01	1.03	58MV080-20
CNPV*4821A**	1.01	1.03	58MV080-20
CNPV*4824A**	1.01	1.03	58MV080-20
CNPV*6024A**	1.01	1.03	58MV080-20
CSPH*4812A**	1.01	1.02	58MV080-20
CSPH*6012A**	1.01	1.02	58MV080-20
CAP**4817A**	1.01	1.03	58CV(A,X)090-16
CNPV*4821A**	1.01	1.05	58CV(A,X)090-16
CNPV*6024A**	1.00	1.02	58CV(A,X)090-16
CSPH*4812A**	1.01	1.04	58CV(A,X)090-16
CSPH*6012A**	1.00	1.01	58CV(A,X)090-16
CAP**4821A**	1.00	1.03	58CV(A,X)110-20
CNPV*4821A**	1.01	1.04	58CV(A,X)110-20
CNPV*6024A**	1.00	1.01	58CV(A,X)110-20
CSPH*4812A**	1.01	1.04	58CV(A,X)110-20
CSPH*6012A**	1.00	1.01	58CV(A,X)110-20
CAP**4821A**	1.00	1.02	58CV(A,X)135-22
CNPV*4821A**	1.01	1.03	58CV(A,X)135-22
CNPV*6024A**	1.00	1.01	58CV(A,X)135-22
CSPH*4812A**	1.01	1.04	58CV(A,X)135-22
CSPH*6012A**	1.00	1.01	58CV(A,X)135-22
CAP**4821A**	1.00	1.02	58CV(A,X)135-22
CNPV*4821A**	1.01	1.03	58CV(A,X)135-22
CNPV*6024A**	1.00	1.01	58CV(A,X)135-22
CSPH*4812A**	1.01	1.04	58CV(A,X)135-22
CSPH*6012A**	1.00	1.01	58CV(A,X)135-22
CAP**4821A**	1.00	1.02	58CV(A,X)135-22
CNPV*4821A**	1.01	1.03	58CV(A,X)135-22
CNPV*6024A**	1.00	1.01	58CV(A,X)135-22
CSPH*4812A**	1.01	1.04	58CV(A,X)135-22
CSPH*6012A**	1.00	1.01	58CV(A,X)135-22

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**4824A**	1.00	1.01	58CV(A,X)155-22
CAP**6024A**	0.98	0.99	58CV(A,X)155-22
CNPV*4821A**	1.00	1.02	58CV(A,X)155-22
CNPV*6024A**	0.99	0.99	58CV(A,X)155-22
CSPH*4812A**	1.01	1.01	58CV(A,X)155-22
CSPH*6012A**	0.99	0.98	58CV(A,X)155-22
CAP**4821A**	1.01	1.05	58MV080-20
CAP**6021A**	0.98	1.01	58MV080-20
CNPV*4821A**	1.01	1.06	58MV080-20
CNPV*6024A**	1.00	1.03	58MV080-20
CSPH*4812A**	1.01	1.06	58MV080-20
CSPH*6012A**	1.00	1.02	58MV080-20
CAP**4821A**	1.01	1.04	58MV080-20
CAP**6021A**	0.98	1.01	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20
CAP**4821A**	1.00	1.01	58MV080-20
CAP**6021A**	0.98	1.03	58MV080-20
CNPV*4821A**	1.01	1.05	58MV080-20
CNPV*6024A**	1.00	1.02	58MV080-20
CSPH*4812A**	1.01	1.05	58MV080-20
CSPH*6012A**	1.00	1.04	58MV080-20

Heating Indoor Model	Capacity	Power	Furnace Model
CNPV*4821A**	1.01	1.05	58UVB100-20
CSPH*4812A**	1.01	1.04	58UVB100-20
CAP**4824A**	1.00	1.01	58UVB100-20
CAP**6024A**	0.98	1.01	58UVB100-20
CNPV*4821A**	1.01	1.05	58UVB100-20
CNPV*6024A**	1.00	1.02	58UVB100-20
CSPH*4812A**	1.01	1.05	58UVB100-20
CSPH*6012A**	1.00	1.02	58UVB100-20
CAP**4821A**	1.00	1.04	58UVB100-20
CAP**6021A**	0.98	1.01	58UVB100-20
CNPV*4821A**	1.01	1.05	58UVB100-20
CNPV*6024A**	1.00	1.02	58UVB100-20
CSPH*4812A**	1.01	1.05	58UVB100-20
CSPH*6012A**	1.00	1.04	58UVB100-20

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
EDB	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 System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT								
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*								
25HBA460A31 Outdoor Section With FX4CN(B,F)060 Indoor Section																									
65	1750	24.87	22.88	3.57	30.65	28.17	3.71	36.87	33.62	3.86	43.46	38.60	4.02	50.70	46.14	4.21	59.37	59.37	4.44	66.39	66.39	4.65	77.37	77.37	4.93
	2000	25.41	23.38	3.64	31.24	28.71	3.76	37.48	34.17	3.89	44.11	39.18	4.04	51.54	46.90	4.21	60.39	60.39	4.39	66.91	66.91	4.59	77.69	77.69	4.82
	2250	25.92	23.85	3.72	31.78	29.20	3.83	38.03	34.68	3.95	44.70	39.70	4.08	52.29	47.59	4.24	60.99	60.99	4.39	69.18	69.18	4.57	77.13	77.13	4.75
70	1750	24.15	22.22	3.74	29.97	27.54	3.88	36.25	33.05	4.04	42.86	38.06	4.22	50.00	45.50	4.42	58.50	58.50	4.66	67.58	67.58	4.88	76.44	76.44	5.16
	2000	24.69	22.72	3.81	30.55	28.08	3.93	36.87	33.61	4.06	43.52	38.65	4.23	50.76	46.19	4.41	59.52	59.52	4.61	68.16	68.16	4.81	76.88	76.88	5.05
	2250	25.20	23.18	3.88	31.09	28.57	4.00	37.42	34.12	4.13	44.10	39.17	4.27	51.44	46.81	4.43	60.24	60.24	4.59	68.51	68.51	4.78	77.14	77.14	5.00
75	1750	23.38	21.51	3.91	29.26	26.89	4.06	35.57	32.44	4.24	42.22	37.50	4.42	49.32	44.88	4.63	57.34	57.34	4.88	66.73	66.73	5.11	75.54	75.54	5.40
	2000	23.92	22.01	3.97	29.85	27.43	4.11	36.21	33.01	4.27	42.89	38.09	4.43	50.07	45.56	4.62	58.46	58.46	4.83	67.38	67.38	5.03	76.07	76.07	5.28
	2250	24.43	22.48	4.05	30.38	27.92	4.18	36.77	33.53	4.32	43.48	38.62	4.47	50.73	46.17	4.63	59.32	59.32	4.81	67.80	67.80	5.00	76.33	76.33	5.23

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)060	1.00	1.00	
FV4BNB006	0.99	0.99	
FY4ANB060	1.02	1.05	
CAP**6021A**	0.98	1.03	
CAP**6024A**	1.00	1.02	
CNPH*6024A**	0.99	1.03	
CNPV*6024A**	0.99	1.03	
CSPH*6012A**	1.00	1.02	
CAP**6021A**	0.96	1.01	58CV(A,X)110-20
CNPH*6024A**	0.97	1.04	58CV(A,X)110-20
CSPH*6012A**	0.97	1.02	58CV(A,X)110-20
CAP**6024A**	0.97	1.02	58CV(A,X)135-22
CNPH*6024A**	0.97	1.02	58CV(A,X)135-22
CNPV*6024A**	0.97	1.02	58CV(A,X)135-22
CSPH*6012A**	0.97	1.01	58CV(A,X)135-22
CAP**6024A**	0.97	1.01	58CV(A,X)155-22
CNPH*6024A**	0.97	1.01	58CV(A,X)155-22
CNPV*6024A**	0.97	1.01	58CV(A,X)155-22
CSPH*6012A**	0.97	1.00	58CV(A,X)155-22

See note on pg. 34

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																				
EDB	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 System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT	Capacity MBtuh	Total System KWT						
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*						
25HBA481A30 Outdoor Section With FX4CN(B,F)060 Indoor Section																							
65	1750	23.69	21.79	3.26	29.42	27.03	3.39	35.54	32.40	3.53	42.07	37.36	3.70	49.19	44.76	3.88	57.52	4.12	67.21	67.21	4.35	77.20	4.64
	2000	24.15	22.22	3.31	29.92	27.50	3.42	36.08	32.90	3.55	42.66	37.89	3.70	49.91	45.42	3.86	58.41	4.08	68.08	68.08	4.27	77.80	4.53
	2250	24.58	22.62	3.36	30.38	27.91	3.47	36.56	33.34	3.59	43.18	38.35	3.72	50.56	46.01	3.87	59.20	4.06	68.58	68.58	4.24	77.99	4.47
70	1750	22.92	21.09	3.41	28.71	26.38	3.55	34.87	31.79	3.71	41.42	36.78	3.88	48.47	44.11	4.07	56.64	4.31	66.14	66.14	4.57	76.19	4.86
	2000	23.39	21.52	3.46	29.22	26.85	3.59	35.42	32.30	3.72	42.02	37.32	3.88	49.16	44.74	4.05	57.50	4.27	67.17	67.17	4.48	76.89	4.75
	2250	23.82	21.92	3.52	29.68	27.28	3.63	35.91	32.74	3.76	42.55	37.79	3.90	49.77	45.29	4.06	58.24	4.26	67.75	67.75	4.44	77.18	4.68
75	1750	22.08	20.32	3.56	27.95	25.68	3.72	34.16	31.14	3.89	40.75	36.19	4.07	47.92	43.61	4.28	55.53	4.51	65.10	65.10	4.79	75.17	5.09
	2000	22.57	20.76	3.61	28.47	26.16	3.76	34.72	31.65	3.90	41.35	36.72	4.07	48.44	44.08	4.25	56.49	4.47	66.18	66.18	4.69	75.95	4.97
	2250	23.00	21.16	3.67	28.94	26.59	3.80	35.22	32.11	3.94	41.89	37.20	4.09	49.04	44.63	4.25	57.34	4.46	66.90	66.90	4.65	76.29	4.90

Heating Indoor Model	Capacity	Power	Furnace Model
*FX4CN(B,F)060	1.00	1.00	
FE4ANB006	1.00	1.00	
FV4BNB006	1.00	1.00	
FY4ANB060	1.01	1.06	
CAP**6021A**	1.00	1.05	
CAP**6024A**	1.01	1.06	
CNPH*6024A**	1.00	1.06	
CNPV*6024A**	1.00	1.06	
CSPH*6012A**	1.01	1.05	
CAP**6021A**	1.00	1.05	58CV(A,X)110-20
CNPH*6024A**	1.00	1.06	58CV(A,X)110-20
CSPH*6012A**	1.00	1.04	58CV(A,X)110-20
CAP**6024A**	0.99	1.03	58CV(A,X)135-22
CNPH*6024A**	0.99	1.04	58CV(A,X)135-22
CNPV*6024A**	0.99	1.04	58CV(A,X)135-22
CSPH*6012A**	0.99	1.02	58CV(A,X)135-22
CAP**6024A**	0.99	1.02	58CV(A,X)155-22
CNPH*6024A**	0.99	1.03	58CV(A,X)155-22
CNPV*6024A**	0.99	1.03	58CV(A,X)155-22
CSPH*6012A**	0.99	1.01	58CV(A,X)155-22

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

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

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

EDB — Entering Dry Bulb

GUIDE SPECIFICATIONS

GENERAL

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

25HBA4

1-1/2 TO 5 NOMINAL TONS

System Description

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

Quality Assurance

- Unit will be rated in accordance with the latest edition of ARI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest ARI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor unit is 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), and special features required prior to field start-up.

Unit Cabinet

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

Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings.
- Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with steel wire safety guards.

Compressor

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

Condenser Coil

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

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, and reversing valve.

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 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.

25HBA4

