

Model 223A
Legacy™ Series 13 Heat Pump
with Puron® Refrigerant
Sizes 018 To 060
1-1/2 To 5 Nominal Tons



Product Data



LEGACY™
LINE

Bryant's heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 223A has been designed utilizing Bryant'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, Bryant Heating & Cooling Systems 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

- 13 SEER/ 10.1 - 10.8 EER/ 7.7 - 8.3 HSPF (nominal)
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 74 dBA

Comfort

- System supports Thermidistat™ or standard thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- 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

DuraGuard™ protection package:

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

Applications

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

Warranty

Single-Phase

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

Three-Phase

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

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	14
N	N	N	A	A/N	N	N	N	N	A/N	A/N	N	A
2	2	3	A	N	A	0	3	6	0	0	0	A
Product Family	Tier	SEER	Major Series	Voltage	Variations	Cooling Capacity			Open	Open	Open	Series
2=HP	2= Legacy Series	3=13 SEER	A=Puron	N= 208-230-1 or 208/230-1 P = 208/230-3 E= 460-3	A = Standard				0=Not Defined	0=Not Defined	0=Not Defined	A = Original Series

223A



As an Energy Star® Partner, Bryant Heating & Cooling Systems has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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

STANDARD FEATURES

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

PHYSICAL DATA

UNIT SIZE – SERIES	018–A	024–A	030–A	036–A	042–A	048–A	060–A
Operating Weight (lb)	158	183	226	231	263	283	299
Shipping Weight (lb)	181	210	258	263	295	313	331
Compressor Type	Scroll						
REFRIGERANT	Puron® (R-410A)						
Control	TXV (Puron Hard Shutoff)						
Charge (lb)	5.25	5.9	7.6	7.65	8.4	11.75	12.35
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty. (CFM)	2196	2614	2614	3365	3810	4046	4046
Motor HP	1/10	1/10	1/10	1/5	1/5	1/5	1/5
Motor RPM	1100	800	800	800	800	800	800
COND COIL							
Face Area (Sq. ft.)	13.13	15.09	25.87	25.87	25.15	20.12	22.63
Fins per In.	25	20	20	20	20	20	20
Rows	1	1	1	1	1	2	2
Circuits	4	5	6	6	6	8	8
VALVE CONNECT. (In. ID)							
Vapor	5/8	5/8	3/4	3/4	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
Liquid (0–80 ft. Tube Length)	3/8						

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

Note: See unit Installation Instruction for proper installation.

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. or when there is more than 20 ft. vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250 ft. The maximum vertical separation is 200 ft. when outdoor unit

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

Unit Nominal Size (Btuh)	Acceptable Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length (ft.)										
		Standard Application			Long Line Application Requires Accessories							
		25	50	80	80+	100	125	150	175	200	225	250
18000 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
24000 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
30000 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
36000 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
42000 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
48000 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
60000 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. 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

223A

ACCESSORIES

223A

ORDER NUMBER	DESCRIPTION	018-A	024-A	030-A	030-A (P)	036-A	036-A (P)	036-A (E)	042-A	042-A (P)	042-A (E)	048-A	048-A (P)	048-A (E)	060-A	060-A (P)	060-A (E)
KAACH1201AAA	CRANKCASE HTR								X	X		S	S		S	S	
KAACH1301AAA	CRANKCASE HTR										X			S			S
KAACH1401AAA	CRANKCASE HTR	X	X	X	X	X	X										
KAACH1501AAA	CRANKCASE HTR							X									
KAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KSAHS1701AAA	HARD START (CAP/RELAY)	X	X	X		X			X			X			X		
KHAIR0101AAA	ISOLATION RELAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KSALA0301410	LOW AMBIENT PSW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HC34GE239	MOTOR FAN BALL BEARING	X															
HC34GE242	MOTOR FAN BALL BEARING		X	X	X												
HC38GE228	MOTOR FAN BALL BEARING								X	X							
HC40GE228	MOTOR FAN BALL BEARING					X	X					X	X		X	X	
KSALA0601AAA	MOTORMASTER 230V	X	X	X	X	X	X		X	X		X	X		X	X	
KSALA0701AAA	MOTORMASTER 460V							X			X			X			X
KHAOT0201SEC	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KHAOT0301FST	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KHALS0401LLS	SOLENOID VALVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KAACS0201PTC	START ASSIST PTC	X	X	X		X			X			X			X		
KSASF0101AAA	SUPPORT FEET	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KAATD0101TDR	TIME DELAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KSATX0201PUR	TXV PURON HSO	X	X	X	X												
KSATX0301PUR	TXV PURON HSO					X	X	X	X	X	X						
KSATX0401PUR	TXV PURON HSO											X	X	X			
KSATX0501PUR	TXV PURON HSO														X	X	X

x = Accessory S = Standard

ACCESSORY THERMOSTATS

THERMOSTAT / SUBBASE PKG.	DESCRIPTION
TSTATBBPRH01-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.)
TSTATBBPHH01-B*	HybridHeat™ (Dual Fuel) Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, Includes Outdoor Sensor (TSTATXXSEN01-B)
TSTATBBPHP01-B	Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool
TSTATBBNHP01-C	Thermostat — Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool
TSTATBBSHP01	Standard Programmable Thermostat—Manual Changeover, 5-2 Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TSTATBBBHP01-B*	Builder's Thermostat — Heat Pump, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool, Manual Changeover
TSTATXXSEN01-B**	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXPBP01	Backplate for Programmable Thermostat and Thermidistat™ Control
TSTATXXSBP01	Backplate for Standard Programmable Thermostat
TSTATXXBBP01	Backplate for Builder's Thermostat
TSTATXXCNV10†	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack

* Do not use in zoning heat pump applications.

** Outdoor temperature sensor is an accessory for all Bryant 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 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 dual fuel thermostat.

ACCESSORY USAGE GUIDELINE

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

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

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

Accessory Description and Usage (Listed Alphabetically)

1. Ball-Bearing Fan Motor

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

Usage Guideline:

Required on all units when MotorMaster® is used.

2. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

Required for reciprocating compressors in the following applications:

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

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

- Long line
- Low ambient cooling

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

3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

4. Crankcase Heater

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

Usage Guideline:

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

5. 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 ± -12°C).

Usage Guideline:

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

Suggested for all commercial applications.

Accessory Description and Usage (Listed Alphabetically) - CONTINUED

10. Outdoor Air Temperature Sensor

Designed for use with Bryant 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 BryantInf 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. 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. to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft. apart.

14. Thermostatic Expansion Valve (TXV) Bi-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

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

Required in all heat pump applications designed with Puron refrigerant.

15. Time-Delay Relay

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

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

Usage Guideline:

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

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH (FT)‡	MAX LENGTH (FT)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
								60° C	75° C	60° C	75° C	
018-A (N)	208/230/1	253	197	48	9.0	0.75	12	14	14	66	62	20
024-A (N)				58.3	12.8	0.7	16.7	14	14	47	45	25
030-A (N)				77	14.1	0.7	21.3	12	12	59	56	30
036-A (N)				79	16.7	1.2	22	12	12	57	54	35
042-A (N)				109	19.9	1.2	26	10	10	77	73	40
048-A (N)				117	21.8	1.2	35.4	8	8	88	84	50
060-A (N)				134	26.3	1.2	34.1	8	8	91	87	50
030-A (P)	208/230/3	253	187	71	10.8	0.7	14.2	14	14	64	61	20
036-A (P)				88	11.3	1.2	15.3	12	12	94	90	25
042-A (P)				88	13.5	1.2	18.0	10	10	128	122	30
048-A (P)				83.1	17.2	1.2	22.7	8	10	158	97	35
060-A (P)				110	17.0	1.2	22.5	8	10	160	98	35
036-A (E)	460/3	506	414	88	11.3	1.2	15.3	12	12	188	180	25
042-A (E)				88	13.5	1.2	18.0	10	10	256	243	30
048-A (E)				83.1	17.2	1.2	22.7	8	10	316	193	35
060-A (E)				110	17.0	1.2	22.5	8	10	320	195	35

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

† If wire is applied at ambient greater than 30° C (86° F), consult table 310-16 of the NEC (ANSI/NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60° C (140° F) conditions, per the NEC (ANSI/NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75° C (140 or 167° C) insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

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

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

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

A-WEIGHTED SOUND LEVEL (DBA)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018-A	74	52.5	60.5	68.0	68.5	64.5	60.0	54.0
024-A	74	54.5	63.0	66.5	66.0	64.0	60.5	51.5
030-A	74	53.0	60.5	66.0	67.5	64.5	61.5	53.0
036-A	74	55.0	62.5	67.0	70.5	62.5	60.0	52.5
042-A	74	55.0	60.0	64.0	67.5	61.5	60.0	55.0
048-A	74	57.5	64.5	67.5	69.5	66.5	61.0	53.0
060-A	74	53.5	63.0	67.5	70.0	63.5	60.0	55.5

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - SERIES	REQUIRED SUBCOOLING (°F)
018-A	10
024-A	12
030-A	11
036-A	10
042-A	11
048-A	11
060-A	12

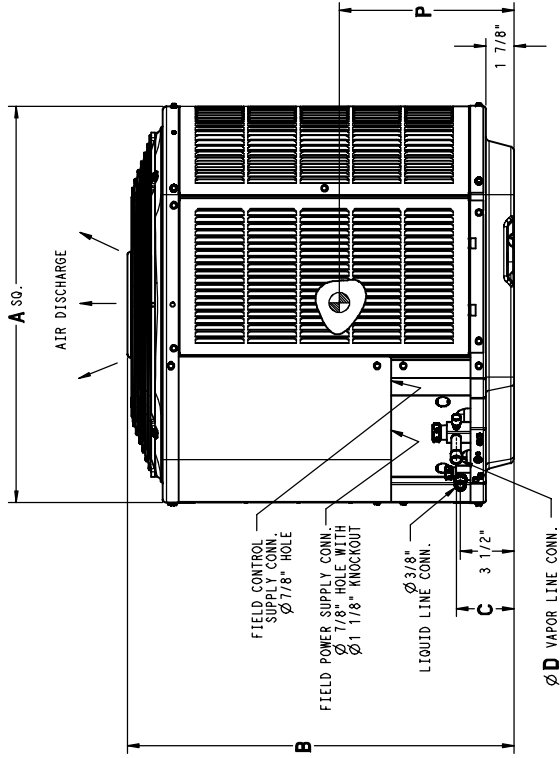
DIMENSIONS

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)
223A018	A	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"	1/2"	10 1/4"	10 3/4"	14"	158#	181#	26 7/8" X 26 7/8" X 36 1/16"
223A024	A	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"	1/2"	15 5/8"	16 3/4"	14 1/2"	183#	210#	32 5/16" X 32 5/16" X 32 5/8"
223A030	A	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"	1/2"	20 1/4"	17 3/8"	18 3/4"	228#	258#	32 5/16" X 32 5/16" X 49 5/8"
223A036	A	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"	1/2"	17"	14 3/4"	20 3/8"	231#	263#	32 5/16" X 32 5/16" X 49 5/8"
223A042	A	X 0 X	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"	263#	295#	36 1/8" X 36 1/8" X 42 7/8"
223A048	A	X 0 X	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"	283#	313#	36 1/8" X 36 1/8" X 36 1/16"
223A060	A	X 0 X	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"	19"	19"	19"	299#	331#	36 1/8" X 36 1/8" X 42 7/8"

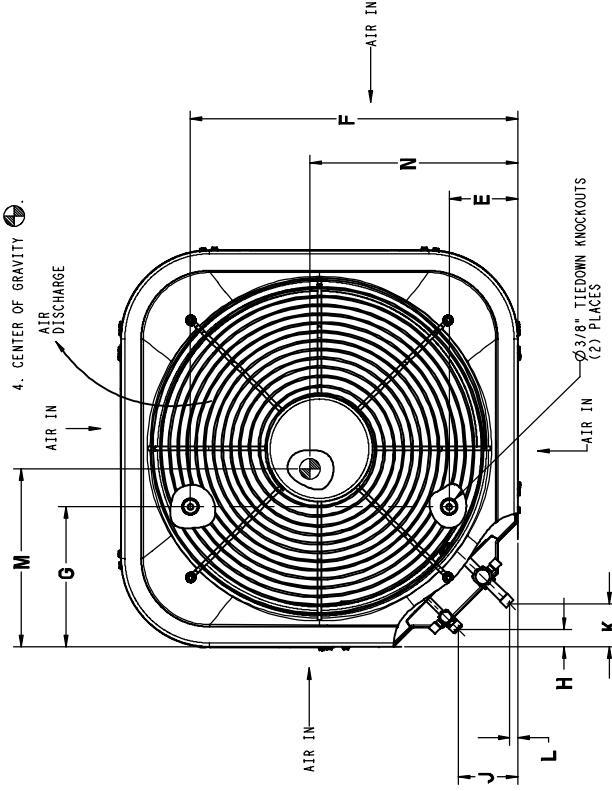
208-230-160	230-160	208/230-3-60	460-3-60
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X = YES
O = NO

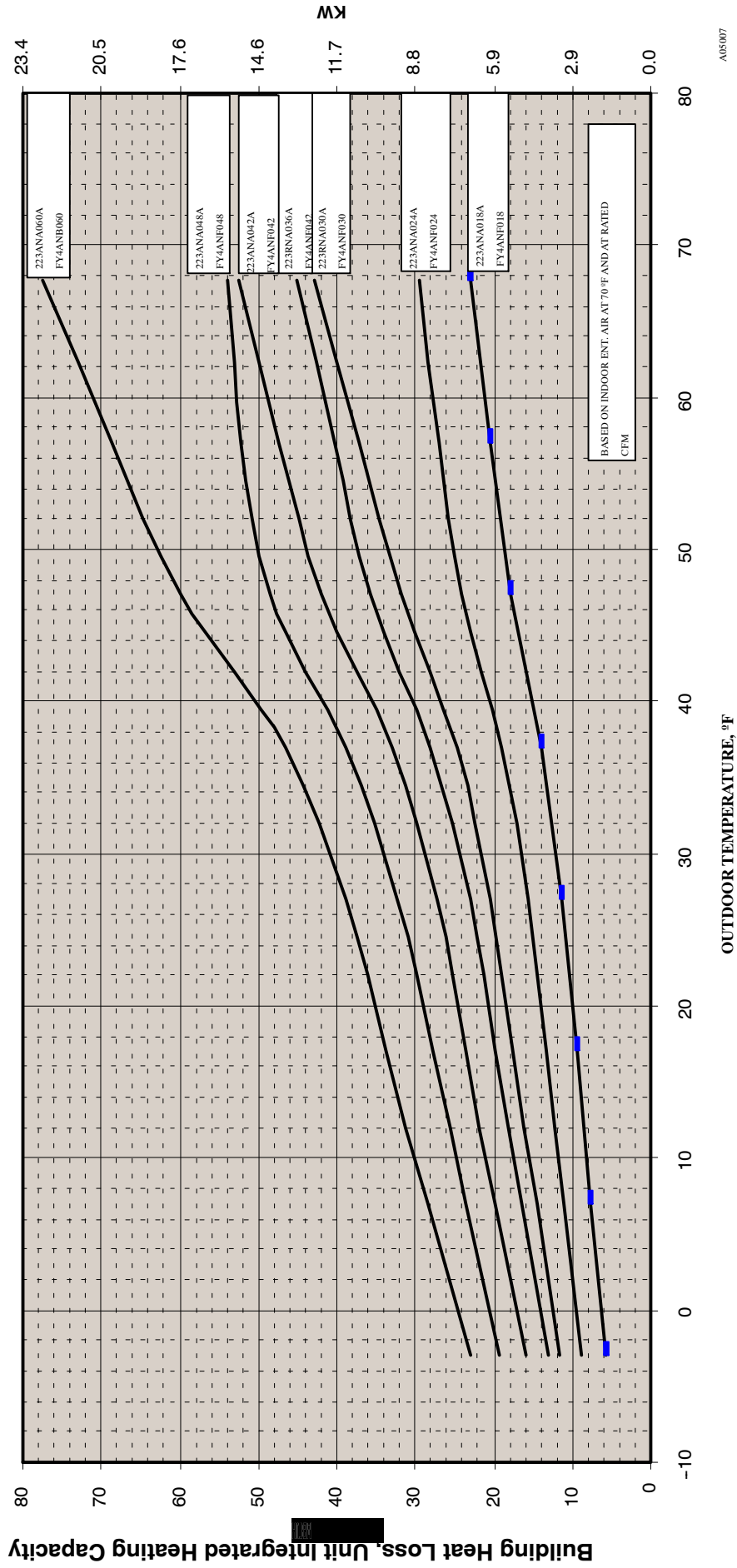
- NOTES:
- ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
 - MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
 - SERIES DESIGNATION IS THE 14TH POSITION OF THE UNIT MODEL NUMBER.
 - CENTER OF GRAVITY



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



223ANA BALANCE POINT WORKSHEET



A05007

COMBINATION RATINGS

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
							E Capacity	E COP	H Capacity	H COP		
018–A	*FY4ANF018	17,100	TDR&TXV	13.00		10.50	18,000	3.36	10,900	2.24	7.7	
	FE4ANF002	17,700	TDR&TXV	14.50		12.00	17,200	3.64	10,500	2.48	8.2	
	FF1ENP018	17,100	TDR&TXV	13.00		10.50	18,000	3.38	10,900	2.26	7.7	
	FF1ENP024	17,400	TDR&TXV	13.20		10.70	17,900	3.44	10,900	2.28	7.7	
	FV4BNF002	17,700	TDR&TXV	14.50		12.00	17,200	3.64	10,500	2.48	8.2	
	FX4CNF018	17,500	TDR&TXV	14.50		11.70	17,600	3.60	10,500	2.38	8.0	
	FX4CNF024	17,700	TDR&TXV	15.00		12.00	17,400	3.66	10,500	2.42	8.1	
	FY4ANF024	17,200	TDR&TXV	13.00		10.50	17,900	3.38	11,000	2.26	7.7	
	CAP**1814A**	17,000	TDR&TXV	14.50		11.70	17,100	3.34	10,200	2.30	7.7	315(A,J)AV036070
	CAP**1814A**	17,000	TXV		13.00	10.50	18,000	3.32	10,900	2.24	7.7	
	CAP**2414A**	17,300	TDR&TXV	14.50		11.70	17,300	3.50	10,300	2.36	7.8	315(A,J)AV036070
	CAP**2414A**	17,400	TXV		13.00	10.80	18,000	3.48	11,000	2.30	7.7	
	CAP**2417A**	17,400	TDR&TXV	15.00		12.00	17,200	3.54	10,300	2.38	7.8	315(A,J)AV048090
	CAP**2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.52	10,300	2.36	7.9	355AAV042060
	CAP**2417A**	17,400	TXV		13.00	10.80	18,000	3.48	11,000	2.30	7.7	
	CNPF*2418A**	17,400	TXV		13.00	10.80	18,000	3.54	11,000	2.30	7.8	
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,200	3.54	10,300	2.38	7.8	315(A,J)AV036070
	CNPH*2417A**	17,400	TDR&TXV	14.50		11.70	17,200	3.58	10,300	2.38	7.9	315(A,J)AV048090
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.56	10,300	2.38	7.9	355AAV042040
	CNPH*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.58	10,300	2.38	7.9	355AAV042060
	CNPH*2417A**	17,400	TDR&TXV	14.50		11.70	17,300	3.58	10,300	2.38	7.9	355AAV042080
	CNPH*2417A**	17,400	TXV		13.00	10.80	18,000	3.54	11,000	2.30	7.8	
	CNPV*1814A**	17,000	TDR&TXV	14.50		11.70	17,100	3.48	10,300	2.34	7.7	315(A,J)AV036070
	CNPV*1814A**	17,000	TXV		13.00	10.80	18,000	3.48	10,900	2.28	7.7	
	CNPV*2414A**	17,300	TDR&TXV	14.50		11.70	17,300	3.54	10,300	2.38	7.8	315(A,J)AV036070
	CNPV*2414A**	17,400	TXV		13.00	10.80	18,000	3.54	11,000	2.30	7.8	
	CNPV*2417A**	17,400	TDR&TXV	14.50		11.70	17,200	3.60	10,300	2.38	7.9	315(A,J)AV048090
	CNPV*2417A**	17,300	TDR&TXV	14.50		11.70	17,300	3.56	10,300	2.38	7.9	355AAV042060
	CNPV*2417A**	17,400	TXV		13.00	10.80	18,000	3.54	11,000	2.30	7.8	
	CSPH*2412A**	17,300	TDR&TXV	14.50		11.70	17,200	3.56	10,300	2.38	7.9	315(A,J)AV036070
	CSPH*2412A**	17,400	TDR&TXV	15.00		12.00	17,200	3.58	10,300	2.38	7.9	315(A,J)AV048090
	CSPH*2412A**	17,300	TDR&TXV	14.50		11.70	17,300	3.58	10,300	2.38	7.9	355AAV042040
CSPH*2412A**	17,300	TDR&TXV	15.00		12.00	17,300	3.58	10,300	2.38	7.9	355AAV042060	
CSPH*2412A**	17,300	TDR&TXV	14.50		11.70	17,300	3.58	10,400	2.38	7.9	355AAV042080	
CSPH*2412A**	17,400	TXV		13.00	10.80	17,800	3.50	11,000	2.32	7.8		
*FY4ANF024	22,600	TDR&TXV	13.00		10.5	24,000	3.54	15,000	2.48	8.2		
FE4ANF002	23,200	TDR&TXV	14.50		11.70	23,200	3.78	14,300	2.64	8.5		
FE4ANF003	23,400	TDR&TXV	15.00		12.00	23,000	3.76	14,200	2.66	8.5		
FF1ENP024	22,800	TDR&TXV	13.00		10.70	24,000	3.56	15,200	2.46	8.2		
FF1ENP030	22,800	TDR&TXV	13.00		10.40	24,200	3.56	15,100	2.48	8.0		
FV4BNF002	23,200	TDR&TXV	14.50		11.70	23,200	3.80	14,400	2.66	8.5		
FV4BNF003	23,400	TDR&TXV	14.50		12.00	23,000	3.78	14,300	2.66	8.5		
FX4CNF024	23,000	TDR&TXV	14.00		11.40	23,800	3.72	14,600	2.60	8.3		
FX4CNF030	23,400	TDR&TXV	14.50		11.70	23,600	3.84	14,600	2.66	8.5		
FY4ANF030	23,000	TDR&TXV	13.20		10.60	24,000	3.64	15,100	2.52	8.4		
CAP**2414A**	22,600	TDR&TXV	14.00		11.50	23,400	3.62	14,300	2.58	8.3	315(A,J)AV036070	
CAP**2414A**	22,800	TXV		13.00	10.50	24,400	3.60	15,100	2.50	8.3		
CAP**2417A**	22,800	TDR&TXV	14.50		11.70	23,400	3.66	14,300	2.60	8.4	315(A,J)AV048090	
CAP**2417A**	22,800	TDR&TXV	14.50		11.70	23,400	3.64	14,300	2.58	8.4	355AAV042060	
CAP**2417A**	22,800	TXV		13.00	10.50	24,400	3.60	15,100	2.50	8.3		
CAP**3014A**	23,000	TDR&TXV	14.50		11.70	23,000	3.64	14,400	2.60	8.4	315(A,J)AV036070	
CAP**3014A**	23,000	TXV		13.00	10.60	23,400	3.56	15,200	2.52	8.3		
CAP**3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.68	14,300	2.62	8.5	315(A,J)AV048090	
CAP**3017A**	23,000	TDR&TXV	14.50		11.70	23,000	3.68	14,300	2.62	8.5	355AAV042060	
CAP**3017A**	23,000	TXV		13.00	10.60	23,400	3.56	15,200	2.52	8.3		
CNPF*2418A**	22,800	TXV		13.00	10.50	24,400	3.68	15,200	2.52	8.5		

See notes on pg. 17

COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings										
			Cooling				Heating					Furnace Model	
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF		
							E	E	H	H			
Capacity	COP	Capacity					COP						
024 – A	CNPH*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.68	14,400	2.58	8.4	315(A,J)AV036070	
	CNPH*2417A**	22,800	TDR&TXV	14.50		11.60	23,400	3.72	14,400	2.62	8.5	315(A,J)AV048090	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	315(A,J)AV060110	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	315(A,J)AV066135	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.72	14,400	2.60	8.5	315(A,J)AV066155	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	355AAV042040	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	355AAV042060	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	355AAV042080	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.70	14,400	2.60	8.5	355AAV060080	
	CNPH*2417A**	22,800	TDR&TXV	14.00		11.50	23,400	3.72	14,400	2.60	8.5	355AAV060100	
	CNPH*2417A**	22,600	TDR&TXV	14.00		11.50	23,400	3.66	14,400	2.58	8.4	355AAV060120	
	CNPH*2417A**	22,800	TXV			13.00	10.50	24,400	3.68	15,200	2.52	8.5	
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.66	14,300	2.60	8.5	315(A,J)AV036070
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.70	14,300	2.62	8.5	315(A,J)AV048090
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.70	14,400	2.62	8.5	315(A,J)AV060110
	CNPH*3017A**	23,200	TDR&TXV	14.50			11.70	23,000	3.70	14,400	2.62	8.5	315(A,J)AV066135
	CNPH*3017A**	23,200	TDR&TXV	14.50			11.70	23,000	3.70	14,300	2.64	8.5	315(A,J)AV066155
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.68	14,400	2.62	8.5	355AAV042040
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.68	14,300	2.62	8.5	355AAV042060
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.68	14,400	2.62	8.7	355AAV042080
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.68	14,400	2.62	8.5	355AAV060080
	CNPH*3017A**	23,200	TDR&TXV	14.50			11.70	23,000	3.70	14,400	2.62	8.5	355AAV060100
	CNPH*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.66	14,300	2.60	8.5	355AAV060120
	CNPH*3017A**	23,000	TXV			13.00	10.60	23,400	3.56	15,200	2.52	8.3	
	CNPV*2414A**	22,600	TDR&TXV	14.00			11.50	23,400	3.68	14,400	2.58	8.4	315(A,J)AV036070
	CNPV*2414A**	22,800	TXV			13.00	10.50	24,400	3.68	15,200	2.52	8.5	
	CNPV*2417A**	22,800	TDR&TXV	14.50			11.50	23,400	3.72	14,400	2.62	8.5	315(A,J)AV048090
	CNPV*2417A**	22,800	TDR&TXV	14.00			11.50	23,400	3.70	14,400	2.60	8.5	355AAV042060
	CNPV*2417A**	22,800	TXV			13.00	10.50	24,400	3.68	15,200	2.52	8.5	
	CNPV*3014A**	23,000	TDR&TXV	14.50			11.70	23,000	3.66	14,400	2.60	8.4	315(A,J)AV036070
	CNPV*3014A**	23,000	TXV			13.00	10.60	23,400	3.56	15,200	2.52	8.3	
	CNPV*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.70	14,300	2.62	8.5	315(A,J)AV048090
	CNPV*3017A**	23,000	TDR&TXV	14.50			11.70	23,000	3.68	14,300	2.62	8.5	355AAV042060
	CNPV*3017A**	23,000	TXV			13.00	10.60	23,400	3.56	15,200	2.52	8.3	
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.60	23,400	3.70	14,400	2.60	8.5	315(A,J)AV036070
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.70	23,400	3.74	14,400	2.62	8.6	315(A,J)AV048090
	CSPH*2412A**	22,800	TDR&TXV	14.00			11.50	23,400	3.72	14,500	2.60	8.5	315(A,J)AV060110
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.70	23,400	3.74	14,500	2.60	8.6	315(A,J)AV066135
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.70	23,400	3.74	14,400	2.62	8.6	315(A,J)AV066155
	CSPH*2412A**	22,800	TDR&TXV	14.00			11.50	23,400	3.72	14,500	2.60	8.5	355AAV042040
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.70	23,400	3.72	14,400	2.60	8.5	355AAV042060
	CSPH*2412A**	22,800	TDR&TXV	14.00			11.50	23,400	3.74	14,500	2.60	8.5	355AAV042080
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.60	23,400	3.72	14,400	2.60	8.5	355AAV060080
	CSPH*2412A**	22,800	TDR&TXV	14.50			11.70	23,400	3.74	14,500	2.62	8.6	355AAV060100
	CSPH*2412A**	22,800	TDR&TXV	14.00			11.50	23,400	3.70	14,400	2.58	8.5	355AAV060120
	CSPH*2412A**	22,800	TXV			13.00	10.60	24,200	3.68	15,200	2.54	8.5	
	CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.64	14,400	2.60	8.4	315(A,J)AV036070
	CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.68	14,400	2.62	8.5	315(A,J)AV048090
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.68	14,400	2.62	8.5	315(A,J)AV060110	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.68	14,400	2.62	8.5	315(A,J)AV066135	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.68	14,400	2.62	8.5	315(A,J)AV066155	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.66	14,400	2.60	8.5	355AAV042040	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.66	14,400	2.60	8.5	355AAV042060	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.66	14,400	2.60	8.5	355AAV042080	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.66	14,400	2.60	8.5	355AAV060080	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.68	14,400	2.62	8.5	355AAV060100	
CSPH*3012A**	23,000	TDR&TXV	14.50			11.70	22,800	3.64	14,400	2.60	8.4	355AAV060120	
CSPH*3012A**	23,000	TXV			13.00	10.60	23,200	3.56	15,200	2.52	8.3		
*FY4ANF030	29,200	TDR&TXV	13.00			10.10	31,800	3.46	21,200	2.56	8.3		
FE4ANF002	29,600	TDR&TXV	14.00			11.00	31,000	3.56	20,600	2.66	8.4		
FE4ANF003	29,800	TDR&TXV	14.50			11.20	30,800	3.56	20,400	2.68	8.5		
FF1ENP030	29,000	TDR&TXV	13.00			10.00	31,800	3.42	21,200	2.54	8.2		
FF1ENP036	29,600	TDR&TXV	13.20			10.20	32,000	3.48	21,400	2.58	8.3		
FV4BNF002	29,600	TDR&TXV	14.00			11.00	31,000	3.56	20,600	2.66	8.4		
FV4BNF003	29,800	TDR&TXV	14.50			11.20	30,800	3.56	20,400	2.68	8.5		
FV4BNF005	30,600	TDR&TXV	15.00			11.60	30,800	3.80	20,600	2.78	8.9		
FX4CN(B,F)036	30,000	TDR&TXV	14.00			10.90	31,600	3.64	21,000	2.68	8.6		
FX4CNF030	29,600	TDR&TXV	13.50			10.80	31,400	3.60	21,000	2.66	8.5		

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See notes on pg. 17

COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
							E Capacity	E COP	H Capacity	H COP		
	FY4ANF036	29,600	TDR&TXV	13.00		10.00	32,200	3.48	21,600	2.56	8.3	
	CAP**3014A**	29,200	TDR&TXV	13.50		10.80	30,800	3.44	20,600	2.60	8.2	315(A,J)AV036070
	CAP**3014A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.56	8.3	
	CAP**3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.46	20,400	2.62	8.3	315(A,J)AV048090
	CAP**3017A**	29,200	TDR&TXV	14.00		10.90	30,800	3.44	20,400	2.62	8.2	355AAV042060
	CAP**3017A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.56	8.3	
	CAP**3614A**	28,400	TDR&TXV	14.00		10.90	30,000	3.46	20,600	2.62	8.3	315(A,J)AV036070
	CAP**3614A**	28,600	TXV		13.00	10.10	31,200	3.50	21,600	2.58	8.4	
	CAP**3617A**	29,400	TDR&TXV	14.00		11.10	30,800	3.50	20,400	2.64	8.3	315(A,J)AV048090
	CAP**3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.62	8.3	355AAV042060
	CAP**3617A**	29,600	TXV		13.00	10.10	32,200	3.50	21,600	2.58	8.4	
	CAP**3621A**	29,600	TDR&TXV	14.00		11.10	30,800	3.52	20,400	2.66	8.4	315(A,J)AV060110
	CAP**3621A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,600	2.64	8.3	355AAV042080
	CAP**3621A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,400	2.64	8.3	355AAV060080
	CAP**3621A**	29,400	TDR&TXV	14.00		11.10	30,800	3.50	20,400	2.64	8.3	355AAV060100
	CAP**3621A**	29,600	TXV		13.00	10.10	32,200	3.50	21,600	2.58	8.4	
	CNPF*3618A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPH*3017A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,400	2.62	8.2	315(A,J)AV036070
	CNPH*3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.64	8.3	315(A,J)AV048090
	CNPH*3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.64	8.3	315(A,J)AV060110
	CNPH*3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,400	2.64	8.3	315(A,J)AV066135
	CNPH*3017A**	29,400	TDR&TXV	14.00		11.10	30,800	3.50	20,400	2.64	8.3	315(A,J)AV066155
	CNPH*3017A**	29,400	TDR&TXV	14.00		10.80	30,800	3.44	20,600	2.60	8.2	355AAV042040
	CNPH*3017A**	29,200	TDR&TXV	14.00		10.80	30,800	3.44	20,600	2.62	8.2	355AAV042060
	CNPH*3017A**	29,400	TDR&TXV	14.00		10.90	31,000	3.46	20,600	2.62	8.3	355AAV042080
	CNPH*3017A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.3	355AAV060080
	CNPH*3017A**	29,400	TDR&TXV	14.00		10.90	30,800	3.48	20,600	2.62	8.3	355AAV060100
	CNPH*3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.46	20,400	2.62	8.2	355AAV060120
	CNPH*3017A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPH*3617A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.2	315(A,J)AV036070
	CNPH*3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.64	8.3	315(A,J)AV048090
	CNPH*3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,400	2.64	8.3	315(A,J)AV060110
	CNPH*3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,400	2.64	8.3	315(A,J)AV066135
	CNPH*3617A**	29,400	TDR&TXV	14.00		11.10	30,800	3.50	20,400	2.64	8.3	315(A,J)AV066155
	CNPH*3617A**	29,400	TDR&TXV	14.00		10.80	30,800	3.44	20,400	2.62	8.2	355AAV042040
	CNPH*3617A**	29,200	TDR&TXV	14.00		10.90	30,800	3.44	20,400	2.62	8.2	355AAV042060
	CNPH*3617A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.3	355AAV042080
	CNPH*3617A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,400	2.62	8.2	355AAV060080
	CNPH*3617A**	29,400	TDR&TXV	14.00		10.90	30,800	3.48	20,400	2.62	8.3	355AAV060100
	CNPH*3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.46	20,400	2.62	8.2	355AAV060120
	CNPH*3617A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPV*3014A**	29,200	TDR&TXV	13.50		10.80	30,800	3.44	20,600	2.60	8.2	315(A,J)AV036070
	CNPV*3014A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPV*3017A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.64	8.3	315(A,J)AV048090
	CNPV*3017A**	29,200	TDR&TXV	14.00		10.90	30,800	3.44	20,400	2.62	8.2	355AAV042060
	CNPV*3017A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPV*3617A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.64	8.3	315(A,J)AV048090
	CNPV*3617A**	29,200	TDR&TXV	14.00		10.90	30,800	3.44	20,400	2.62	8.2	355AAV042060
	CNPV*3617A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CNPV*3621A**	29,400	TDR&TXV	14.00		11.00	30,800	3.50	20,600	2.64	8.3	315(A,J)AV060110
	CNPV*3621A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,400	2.62	8.3	355AAV042080
	CNPV*3621A**	29,400	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.3	355AAV060080
	CNPV*3621A**	29,400	TDR&TXV	14.00		11.00	30,800	3.48	20,400	2.62	8.3	355AAV060100
	CNPV*3621A**	29,600	TXV		13.00	10.10	32,000	3.48	21,400	2.58	8.3	
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.3	315(A,J)AV036070
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.48	20,600	2.64	8.3	315(A,J)AV048090
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.50	20,600	2.64	8.3	315(A,J)AV060110
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.50	20,600	2.64	8.3	315(A,J)AV066135
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.50	20,600	2.64	8.3	315(A,J)AV066155
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.80	30,800	3.46	20,600	2.62	8.2	355AAV042040
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.46	20,600	2.62	8.2	355AAV042060

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COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model	
			Cooling				Heating						
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF		
E Capacity	E COP	H Capacity					H COP						
030–A	CSPH*3012A**	29,200	TDR&TXV	14.00		10.70	30,800	3.48	20,600	2.62	8.3	355AAV042080	
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.48	20,600	2.62	8.3	355AAV060080	
	CSPH*3012A**	29,200	TDR&TXV	14.00		10.90	30,800	3.48	20,600	2.62	8.3	355AAV060100	
	CSPH*3012A**	29,200	TDR&TXV	14.00		11.00	30,800	3.46	20,400	2.62	8.3	355AAV060120	
	CSPH*3012A**	29,600	TXV			13.00	10.20	32,000	3.52	21,400	2.58	8.4	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	30,800	3.58	20,600	2.68	8.5	315(A,J)AV036070	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.20	30,800	3.60	20,600	2.70	8.5	315(A,J)AV048090	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.20	30,800	3.62	20,600	2.70	8.6	315(A,J)AV060110	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.30	30,800	3.62	20,600	2.70	8.6	315(A,J)AV066135	
	CSPH*3612A**	30,000	TDR&TXV	14.00		11.30	30,800	3.64	20,600	2.70	8.6	315(A,J)AV066155	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	30,800	3.58	20,600	2.66	8.5	355AAV042040	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	30,800	3.58	20,600	2.68	8.5	355AAV042060	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	30,800	3.60	20,600	2.68	8.5	355AAV042080	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.10	30,800	3.58	20,600	2.68	8.5	355AAV060080	
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.20	30,800	3.60	20,600	2.68	8.5	355AAV060100	
CSPH*3612A**	29,400	TDR&TXV	14.00		11.20	30,800	3.58	20,600	2.68	8.5	355AAV060120		
CSPH*3612A**	29,600	TXV			13.00	10.30	32,200	3.64	21,600	2.64	8.6		
*FY4ANF042	34,000	TDR&TXV	13.00		10.60	35,800	3.56	22,200	2.42	8.1			
FE4ANF002	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,000	2.48	8.1			
FE4ANF003	33,600	TDR&TXV	14.00		11.50	34,400	3.56	20,800	2.52	8.1			
FE4ANF005	35,000	TDR&TXV	14.50		12.00	33,600	3.76	21,000	2.60	8.6			
FF1ENP036	33,600	TDR&TXV	13.00		10.70	35,400	3.44	21,800	2.40	7.9			
FV4BNF002	33,400	TDR&TXV	13.50		11.20	34,600	3.54	21,200	2.46	8.1			
FV4BNF003	33,600	TDR&TXV	14.00		11.50	34,400	3.56	20,800	2.50	8.1			
FV4BNF005	35,000	TDR&TXV	14.50		12.00	33,600	3.76	21,000	2.58	8.6			
FX4CN(B,F)036	34,000	TDR&TXV	13.50		11.20	35,200	3.62	21,400	2.50	8.3			
FX4CN(B,F)042	34,800	TDR&TXV	14.00		11.50	35,200	3.76	21,600	2.54	8.5			
FY4ANF036	33,000	TDR&TXV	13.00		10.50	35,200	3.36	21,600	2.34	7.7			
CAP**3614A**	32,200	TDR&TXV	13.50		11.00	33,600	3.44	21,000	2.42	7.9	315(A,J)AV036070		
CAP**3614A**	32,400	TXV			13.00	10.50	34,600	3.40	21,800	2.38	7.8		
CAP**3617A**	33,400	TDR&TXV	14.00		11.50	34,400	3.48	21,000	2.46	8.0	315(A,J)AV048090		
CAP**3617A**	33,400	TDR&TXV	13.50		11.20	34,400	3.46	21,000	2.44	7.9	355AAV042060		
CAP**3617A**	33,400	TXV			13.00	10.50	35,600	3.46	22,000	2.40	7.9		
CAP**3621A**	33,600	TDR&TXV	14.00		11.50	34,400	3.50	21,000	2.46	8.0	315(A,J)AV060110		
CAP**3621A**	33,200	TDR&TXV	13.50		11.20	34,400	3.44	21,000	2.42	7.9	355AAV042080		
CAP**3621A**	33,400	TDR&TXV	13.50		11.30	34,400	3.48	21,000	2.44	8.0	355AAV060080		
CAP**3621A**	33,400	TDR&TXV	14.00		11.40	34,400	3.48	21,000	2.46	8.0	355AAV060100		
CAP**3621A**	33,400	TXV			13.00	10.50	35,600	3.46	22,000	2.40	7.9		
CAP**4221A**	33,800	TDR&TXV	14.00		11.50	34,600	3.56	21,000	2.48	8.1	315(A,J)AV060110		
CAP**4221A**	33,400	TDR&TXV	13.50		11.20	34,600	3.48	21,000	2.44	8.0	355AAV042080		
CAP**4221A**	33,600	TDR&TXV	14.00		11.50	34,600	3.52	21,000	2.46	8.0	355AAV060080		
CAP**4221A**	33,600	TDR&TXV	14.00		11.50	34,600	3.54	21,000	2.46	8.1	355AAV060100		
CAP**4221A**	33,800	TXV			13.00	10.60	35,800	3.52	22,000	2.42	8.0		
CAP**4224A**	33,800	TDR&TXV	14.00		11.50	34,400	3.58	20,800	2.50	8.1	315(A,J)AV066135		
CAP**4224A**	33,800	TDR&TXV	14.00		11.70	34,400	3.60	20,800	2.52	8.2	315(A,J)AV066155		
CAP**4224A**	33,600	TDR&TXV	13.50		11.20	34,600	3.50	21,000	2.44	8.0	355AAV042040		
CAP**4224A**	33,600	TDR&TXV	14.00		11.50	34,400	3.54	21,000	2.48	8.1	355AAV060120		
CAP**4224A**	33,800	TXV			13.00	10.60	35,800	3.52	22,000	2.42	8.0		
CNPF*3618A**	33,400	TXV			13.00	10.50	35,600	3.44	22,000	2.38	7.9		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.20	34,400	3.42	21,000	2.42	7.9	315(A,J)AV036070		
CNPH*3617A**	33,400	TDR&TXV	13.50		11.20	34,400	3.46	21,000	2.44	7.9	315(A,J)AV048090		
CNPH*3617A**	33,400	TDR&TXV	13.50		11.20	34,400	3.46	21,000	2.44	8.0	315(A,J)AV060110		
CNPH*3617A**	33,400	TDR&TXV	13.50		11.20	34,400	3.46	21,000	2.44	8.0	315(A,J)AV066135		
CNPH*3617A**	33,400	TDR&TXV	14.00		11.50	34,400	3.48	21,000	2.46	8.0	315(A,J)AV066155		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.10	34,600	3.42	21,200	2.40	7.8	355AAV042040		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.20	34,400	3.44	21,000	2.42	7.9	355AAV042060		
CNPH*3617A**	33,000	TDR&TXV	13.50		11.00	34,600	3.40	21,200	2.40	7.8	355AAV042080		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.20	34,400	3.44	21,000	2.42	7.9	355AAV060080		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.20	34,400	3.44	21,000	2.44	7.9	355AAV060100		
CNPH*3617A**	33,200	TDR&TXV	13.50		11.20	34,400	3.44	21,000	2.42	7.9	355AAV060120		
CNPH*3617A**	33,400	TXV			13.00	10.50	35,600	3.44	22,000	2.38	7.9		
CNPH*4221A**	33,600	TDR&TXV	14.00		11.50	34,600	3.54	21,000	2.48	8.1	315(A,J)AV036070		
CNPH*4221A**	33,600	TDR&TXV	14.50		11.70	34,400	3.58	20,800	2.50	8.2	315(A,J)AV048090		
CNPH*4221A**	33,800	TDR&TXV	14.50		11.70	34,400	3.60	20,800	2.52	8.2	315(A,J)AV060110		
CNPH*4221A**	33,800	TDR&TXV	14.50		11.70	34,400	3.62	20,800	2.52	8.2	315(A,J)AV066135		

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COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
							E Capacity	E COP	H Capacity	H COP		
042–A	CAP**4817A**	40,000	TDR&TXV	14.00		11.30	39,500	3.64	25,600	2.56	8.4	355AAV042060
	CAP**4817A**	40,500	TXV			13.00	10.70	40,000	3.64	26,400	2.54	8.4
	CAP**4821A**	41,000	TDR&TXV	14.00		11.40	41,000	3.68	25,400	2.58	8.4	315(A,J)AV060110
	CAP**4821A**	40,500	TDR&TXV	13.50		11.40	41,500	3.58	25,600	2.52	8.2	355AAV042080
CAP**4821A**	40,500	TDR&TXV	13.50		11.20	41,000	3.62	25,400	2.54	8.3	355AAV060080	
CAP**4821A**	40,500	TDR&TXV	14.00		11.30	41,000	3.64	25,400	2.56	8.4	355AAV060100	
CAP**4821A**	41,000	TXV			13.00	10.60	42,000	3.62	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	315(A,J)AV066135	
CAP**4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	315(A,J)AV066155	
CAP**4824A**	40,500	TDR&TXV	13.50		11.10	41,000	3.60	25,400	2.52	8.3	355AAV042040	
CAP**4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.4	355AAV060120	
CAP**4824A**	41,000	TXV			13.00	10.60	42,000	3.62	26,400	2.52	8.3	
CNPF*4818A**	40,500	TXV			13.00	10.50	42,000	3.58	26,400	2.48	8.2	
CNPH*4221A**	40,000	TDR&TXV	13.50		11.10	41,500	3.48	25,200	2.50	8.0	315(A,J)AV036070	
CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	315(A,J)AV048090	
CNPH*4221A**	40,000	TDR&TXV	14.00		11.50	41,000	3.56	25,000	2.56	8.2	315(A,J)AV060110	
CNPH*4221A**	40,000	TDR&TXV	14.50		11.60	41,000	3.58	25,000	2.56	8.2	315(A,J)AV066135	
CNPH*4221A**	40,000	TDR&TXV	14.50		11.60	41,000	3.58	24,800	2.56	8.2	315(A,J)AV066155	
CNPH*4221A**	39,500	TDR&TXV	13.50		11.20	41,000	3.48	25,200	2.50	8.0	355AAV042040	
CNPH*4221A**	39,500	TDR&TXV	14.00		11.30	41,000	3.50	25,200	2.52	8.1	355AAV042060	
CNPH*4221A**	39,500	TDR&TXV	13.50		11.10	41,000	3.48	25,200	2.50	8.0	355AAV042080	
CNPH*4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	355AAV060080	
CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.54	25,000	2.54	8.2	355AAV060100	
CNPH*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.52	25,000	2.54	8.2	355AAV060120	
CNPH*4221A**	40,000	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	25,600	2.52	8.3	315(A,J)AV036070	
CNPH*4821A**	41,000	TDR&TXV	14.00		11.40	41,000	3.66	25,200	2.58	8.4	315(A,J)AV048090	
CNPH*4821A**	41,000	TDR&TXV	14.00		11.50	41,000	3.68	25,400	2.58	8.4	315(A,J)AV060110	
CNPH*4821A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	315(A,J)AV066135	
CNPH*4821A**	41,000	TDR&TXV	14.50		11.70	41,000	3.70	25,200	2.60	8.5	315(A,J)AV066155	
CNPH*4821A**	40,500	TDR&TXV	13.50		11.20	41,500	3.60	25,400	2.52	8.2	355AAV042040	
CNPH*4821A**	40,500	TDR&TXV	14.00		11.30	41,500	3.62	25,400	2.56	8.3	355AAV042060	
CNPH*4821A**	40,500	TDR&TXV	13.50		11.10	41,500	3.58	25,400	2.52	8.2	355AAV042080	
CNPH*4821A**	40,500	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	355AAV060080	
CNPH*4821A**	41,000	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.56	8.4	355AAV060100	
CNPH*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.3	355AAV060120	
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	315(A,J)AV060110	
CNPV*4221A**	39,500	TDR&TXV	13.50		11.10	41,000	3.48	25,200	2.50	8.0	355AAV042080	
CNPV*4221A**	40,000	TDR&TXV	14.00		11.20	41,000	3.50	25,200	2.52	8.1	355AAV060080	
CNPV*4221A**	40,000	TDR&TXV	14.00		11.40	41,000	3.54	25,000	2.54	8.1	355AAV060100	
CNPV*4221A**	40,000	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	25,400	2.58	8.4	315(A,J)AV060110	
CNPV*4821A**	40,500	TDR&TXV	13.50		11.10	41,500	3.58	25,400	2.52	8.2	355AAV042080	
CNPV*4821A**	40,500	TDR&TXV	14.00		11.20	41,000	3.62	25,400	2.54	8.3	355AAV060080	
CNPV*4821A**	40,500	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.56	8.4	355AAV060100	
CNPV*4821A**	41,000	TXV			13.00	10.60	42,000	3.64	26,400	2.52	8.3	
CNPV*4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	315(A,J)AV066135	
CNPV*4824A**	41,000	TDR&TXV	14.50		11.60	41,000	3.70	25,200	2.60	8.5	315(A,J)AV066155	
CNPV*4824A**	40,500	TDR&TXV	13.50		11.20	41,000	3.60	25,400	2.52	8.2	355AAV042040	
CNPV*4824A**	40,500	TDR&TXV	14.00		11.40	41,000	3.64	25,200	2.56	8.3	355AAV060120	
CNPV*4824A**	41,000	TXV			13.00	10.60	42,000	3.64	26,400	2.52	8.3	
CSPH*4212A**	39,500	TDR&TXV	13.50		11.10	41,500	3.60	25,600	2.52	8.2	315(A,J)AV036070	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.56	8.4	315(A,J)AV048090	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.66	25,400	2.58	8.4	315(A,J)AV060110	
CSPH*4212A**	40,000	TDR&TXV	14.50		11.50	41,000	3.70	25,200	2.60	8.4	315(A,J)AV066135	
CSPH*4212A**	40,000	TDR&TXV	14.50		11.60	41,000	3.68	25,200	2.60	8.4	315(A,J)AV066155	
CSPH*4212A**	39,500	TDR&TXV	13.50		11.10	41,500	3.58	25,600	2.52	8.2	355AAV042040	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.30	41,500	3.62	25,400	2.54	8.3	355AAV042060	
CSPH*4212A**	39,500	TDR&TXV	13.50		11.10	41,500	3.58	25,600	2.52	8.2	355AAV042080	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.20	41,500	3.62	25,600	2.54	8.3	355AAV060080	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.30	41,000	3.64	25,400	2.56	8.3	355AAV060100	
CSPH*4212A**	40,000	TDR&TXV	14.00		11.40	41,000	3.62	25,400	2.56	8.3	355AAV060120	
CSPH*4212A**	40,000	TXV			13.00	10.70	42,500	3.66	26,400	2.52	8.3	

See notes on pg. 17

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COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings								Furnace Model		
			Cooling				Heating						
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp			HSPF	
							E Capacity	E COP	H Capacity	H COP			
042–A	CSPH*4812A**	40,500	TDR&TXV	13.50		11.10	41,000	3.64	25,600	2.54	8.3	315(A,J)AV036070	
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.40	41,000	3.70	25,400	2.58	8.4	315(A,J)AV048090	
	CSPH*4812A**	41,000	TDR&TXV	14.00		11.40	41,000	3.70	25,400	2.58	8.5	315(A,J)AV060110	
	CSPH*4812A**	41,000	TDR&TXV	14.50		11.60	41,000	3.74	25,400	2.60	8.5	315(A,J)AV066135	
	CSPH*4812A**	41,000	TDR&TXV	14.50		11.60	41,000	3.72	25,200	2.60	8.5	315(A,J)AV066155	
	CSPH*4812A**	40,500	TDR&TXV	13.50		11.20	41,500	3.62	25,600	2.52	8.3	355AAV042040	
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.66	25,400	2.56	8.4	355AAV042060	
	CSPH*4812A**	40,500	TDR&TXV	13.50		11.10	41,500	3.62	25,600	2.52	8.3	355AAV042080	
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.66	25,600	2.56	8.4	355AAV060080	
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.30	41,000	3.68	25,400	2.56	8.4	355AAV060100	
	CSPH*4812A**	40,500	TDR&TXV	14.00		11.40	41,000	3.68	25,400	2.56	8.4	355AAV060120	
	CSPH*4812A**	41,000	TXV			13.00	10.70	41,000	3.68	26,400	2.52	8.4	
048–A	*FY4ANF048	46,500	TDR&TXV	13.00		10.8	48,500	3.60	30,800	2.58	8.3		
	FE4ANB006	48,000	TDR&TXV	15.50		12.50	46,000	3.86	29,400	2.78	8.8		
	FE4ANF005	47,000	TDR&TXV	15.00		12.20	47,500	3.78	29,400	2.72	8.6		
	FV4BNB006	48,000	TDR&TXV	15.50		12.50	46,000	3.86	29,400	2.78	8.8		
	FV4BNF005	47,000	TDR&TXV	15.00		12.20	47,500	3.78	29,400	2.72	8.6		
	FX4CN(B,F)048	47,500	TDR&TXV	14.50		11.70	47,500	3.78	30,000	2.70	8.6		
	FX4CN(B,F)060	48,000	TDR&TXV	15.00		12.00	44,000	3.74	30,000	2.76	8.7		
	FY4ANB060	47,500	TDR&TXV	13.50		11.00	45,000	3.52	30,800	2.62	8.4		
	CAP**4817A**	45,000	TDR&TXV	14.00		11.50	47,500	3.70	29,800	2.62	8.4	315(A,J)AV048090	
	CAP**4817A**	45,000	TXV			13.00	10.80	48,000	3.66	30,200	2.60	8.4	
	CAP**4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.68	29,600	2.62	8.4	315(A,J)AV060110	
	CAP**4821A**	45,500	TDR&TXV	14.00		11.50	48,500	3.62	29,800	2.58	8.3	355AAV060080	
	CAP**4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.64	29,600	2.60	8.3	355AAV060100	
	CAP**4821A**	46,000	TXV			13.00	10.80	49,000	3.68	30,400	2.60	8.4	
	CAP**4824A**	45,500	TDR&TXV	14.50		11.70	48,000	3.70	29,400	2.64	8.5	315(A,J)AV066135	
	CAP**4824A**	46,000	TDR&TXV	14.50		11.50	48,000	3.74	29,400	2.66	8.5	315(A,J)AV066155	
	CAP**4824A**	45,500	TDR&TXV	14.00		11.50	48,000	3.64	29,600	2.60	8.3	355AAV060120	
	CAP**4824A**	46,000	TXV			13.00	10.80	49,000	3.68	30,400	2.60	8.4	
	CAP**6021A**	46,500	TDR&TXV	14.50		11.70	46,500	3.68	29,600	2.66	8.5	315(A,J)AV060110	
	CAP**6021A**	46,500	TDR&TXV	14.50		11.70	47,000	3.64	29,800	2.62	8.4	355AAV060080	
	CAP**6021A**	46,500	TDR&TXV	14.50		11.70	47,000	3.66	29,600	2.64	8.4	355AAV060100	
	CAP**6021A**	47,000	TXV			13.00	10.80	44,500	3.50	30,600	2.62	8.3	
	CAP**6024A**	47,000	TDR&TXV	14.50		11.70	47,000	3.70	29,600	2.68	8.5	315(A,J)AV066135	
	CAP**6024A**	47,000	TDR&TXV	15.00		12.00	46,500	3.72	29,400	2.68	8.6	315(A,J)AV066155	
	CAP**6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.64	29,600	2.64	8.4	355AAV060120	
	CAP**6024A**	47,000	TXV			13.00	10.80	45,000	3.52	30,400	2.66	8.3	
	CNPF*4818A**	45,000	TXV			13.00	10.80	48,500	3.50	30,000	2.54	8.1	
	CNPH*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.62	29,600	2.60	8.3	315(A,J)AV048090	
	CNPH*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.64	29,600	2.62	8.4	315(A,J)AV060110	
	CNPH*4821A**	46,000	TDR&TXV	14.50		11.70	48,000	3.68	29,400	2.64	8.4	315(A,J)AV066135	
	CNPH*4821A**	46,000	TDR&TXV	14.50		11.70	48,000	3.70	29,400	2.66	8.5	315(A,J)AV066155	
	CNPH*4821A**	45,500	TDR&TXV	14.00		11.50	48,500	3.60	29,600	2.60	8.3	355AAV060080	
	CNPH*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.62	29,600	2.60	8.3	355AAV060100	
	CNPH*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.62	29,600	2.60	8.3	355AAV060120	
	CNPH*4821A**	46,000	TXV			13.00	10.80	49,000	3.68	30,400	2.60	8.4	
	CNPH*6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.68	29,600	2.64	8.4	315(A,J)AV048090	
	CNPH*6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.70	29,600	2.66	8.5	315(A,J)AV060110	
	CNPH*6024A**	46,500	TDR&TXV	15.00		12.00	47,000	3.74	29,400	2.68	8.5	315(A,J)AV066135	
	CNPH*6024A**	47,000	TDR&TXV	15.00		12.00	46,500	3.76	29,400	2.68	8.6	315(A,J)AV066155	
	CNPH*6024A**	46,500	TDR&TXV	14.00		11.50	47,000	3.66	29,800	2.62	8.4	355AAV060080	
CNPH*6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.68	29,600	2.64	8.4	355AAV060100		
CNPH*6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.68	29,600	2.64	8.4	355AAV060120		
CNPH*6024A**	47,000	TXV			13.00	10.80	45,000	3.66	30,600	2.62	8.5		
CNPV*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.64	29,600	2.62	8.4	315(A,J)AV060110		
CNPV*4821A**	45,500	TDR&TXV	14.00		11.50	48,500	3.60	29,600	2.60	8.3	355AAV060080		
CNPV*4821A**	45,500	TDR&TXV	14.00		11.50	48,000	3.62	29,600	2.60	8.3	355AAV060100		
CNPV*4821A**	46,000	TXV			13.00	10.80	49,000	3.68	30,400	2.60	8.4		
CNPV*4824A**	45,500	TDR&TXV	14.50		11.70	48,000	3.68	29,400	2.64	8.4	315(A,J)AV066135		
CNPV*4824A**	46,000	TDR&TXV	14.50		11.50	48,000	3.70	29,400	2.66	8.5	315(A,J)AV066155		
CNPV*4824A**	45,500	TDR&TXV	14.00		11.50	48,000	3.62	29,600	2.60	8.3	355AAV060120		
CNPV*4824A**	46,000	TXV			13.00	10.80	49,000	3.68	30,400	2.60	8.4		

See notes on pg. 17

COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	Cooling Capacity	ARI Standard Ratings									Furnace Model
			Cooling				Heating					
			Factory Enhance	Standard Rating	SEER TDR	EER	High Temp		Low Temp		HSPF	
							E Capacity	E COP	H Capacity	H COP		
048–A	CNPV*6024A**	46,500	TDR&TXV	15.00		12.00	47,000	3.74	29,400	2.68	8.5	315(A,J)AV066135
	CNPV*6024A**	47,000	TDR&TXV	15.00		12.00	46,500	3.76	29,400	2.68	8.6	315(A,J)AV066155
	CNPV*6024A**	46,500	TDR&TXV	14.50		11.70	47,000	3.68	29,600	2.64	8.4	355AAV060120
	CNPV*6024A**	47,000	TXV		13.00	10.80	45,000	3.66	30,600	2.62	8.5	
	CSPH*4812A**	45,500	TDR&TXV	14.00		11.50	48,000	3.68	29,800	2.62	8.4	315(A,J)AV048090
	CSPH*4812A**	45,500	TDR&TXV	14.00		11.50	48,000	3.70	29,600	2.62	8.4	315(A,J)AV060110
	CSPH*4812A**	45,500	TDR&TXV	14.50		11.70	48,000	3.72	29,600	2.64	8.5	315(A,J)AV066135
	CSPH*4812A**	45,500	TDR&TXV	14.50		11.70	48,000	3.76	29,400	2.66	8.6	315(A,J)AV066155
	CSPH*4812A**	45,500	TDR&TXV	14.00		11.50	48,500	3.66	29,800	2.60	8.4	355AAV060080
	CSPH*4812A**	45,500	TDR&TXV	14.00		11.50	48,000	3.68	29,800	2.62	8.4	355AAV060100
	CSPH*4812A**	45,500	TDR&TXV	14.00		11.50	48,000	3.66	29,600	2.62	8.4	355AAV060120
	CSPH*4812A**	46,000	TXV		13.00	10.80	49,000	3.72	30,600	2.62	8.5	
	CSPH*6012A**	46,500	TDR&TXV	14.50		11.70	47,000	3.74	29,600	2.66	8.5	315(A,J)AV048090
	CSPH*6012A**	46,500	TDR&TXV	14.50		11.70	46,500	3.76	29,600	2.68	8.6	315(A,J)AV060110
	CSPH*6012A**	46,500	TDR&TXV	15.00		12.00	46,500	3.78	29,600	2.70	8.6	315(A,J)AV066135
	CSPH*6012A**	46,500	TDR&TXV	15.00		12.00	46,500	3.80	29,400	2.70	8.7	315(A,J)AV066155
	CSPH*6012A**	46,500	TDR&TXV	14.50		11.70	47,000	3.70	29,800	2.64	8.5	355AAV060080
	CSPH*6012A**	46,500	TDR&TXV	14.50		11.70	47,000	3.72	29,800	2.66	8.5	355AAV060100
	CSPH*6012A**	46,500	TDR&TXV	14.50		11.70	47,000	3.72	29,600	2.66	8.5	355AAV060120
	CSPH*6012A**	47,000	TXV		13.00	10.80	45,000	3.68	30,600	2.64	8.5	
060–A	*FY4ANB060	59,500	TDR&TXV	13.00		10.80	60,000	3.62	38,500	2.56	8.0	
	FE4ANB006	60,000	TDR&TXV	14.00		11.50	58,500	3.74	36,200	2.68	8.2	
	FV4BNB006	60,000	TDR&TXV	14.00		11.50	58,500	3.74	36,200	2.68	8.2	
	FX4CN(B,F)060	60,000	TDR&TXV	14.00		12.00	58,500	3.74	36,200	2.68	8.3	
	CAP**6021A**	58,000	TDR&TXV	13.50		11.20	56,500	3.48	36,000	2.52	7.8	315(A,J)AV060110
	CAP**6021A**	59,000	TXV		13.00	10.80	58,000	3.48	36,400	2.52	7.8	
	CAP**6024A**	59,000	TDR&TXV	13.50		11.50	57,500	3.50	35,800	2.54	7.8	315(A,J)AV066135
	CAP**6024A**	59,000	TDR&TXV	14.00		11.50	57,500	3.54	35,800	2.56	7.9	315(A,J)AV066155
	CAP**6024A**	60,000	TXV		13.00	10.80	59,000	3.60	37,000	2.54	8.0	
	CNPH*6024A**	58,500	TDR&TXV	13.50		11.20	57,500	3.46	36,000	2.52	7.7	315(A,J)AV060110
	CNPH*6024A**	58,500	TDR&TXV	13.50		11.20	57,000	3.48	35,800	2.54	7.8	315(A,J)AV066135
	CNPH*6024A**	59,000	TDR&TXV	14.00		11.50	57,000	3.52	35,800	2.56	7.8	315(A,J)AV066155
	CNPH*6024A**	59,500	TXV		13.00	10.80	58,500	3.54	37,600	2.60	8.0	
	CNPV*6024A**	58,500	TDR&TXV	13.50		11.20	57,000	3.48	35,800	2.54	7.8	315(A,J)AV066135
	CNPV*6024A**	59,000	TDR&TXV	14.00		11.50	57,000	3.52	35,800	2.56	7.8	315(A,J)AV066155
	CNPV*6024A**	59,500	TXV		13.00	10.80	58,500	3.54	36,800	2.54	7.9	
	CSPH*6012A**	59,000	TDR&TXV	13.50		11.20	57,500	3.52	36,000	2.54	7.8	315(A,J)AV060110
	CSPH*6012A**	59,000	TDR&TXV	14.00		11.50	57,500	3.56	35,800	2.56	7.9	315(A,J)AV066135
	CSPH*6012A**	59,000	TDR&TXV	14.00		11.50	57,500	3.58	35,800	2.58	7.9	315(A,J)AV066155
	CSPH*6012A**	60,000	TXV		13.00	10.80	59,000	3.62	37,000	2.56	8.0	

* Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:
Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.
High-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.
Low-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (±9°C) db 15°F (±10°C) wb air entering outdoor unit.

SEER — Seasonal Energy Efficiency Ratio
COP — Coefficient of Performance
TDR — Time-Delay Relay
HSPF — Heating Seasonal Performance Factor
EER — Energy Efficiency Ratio

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DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
		CFM	EWB	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	
Total	Sens†			Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†				
223ANA018 – A Outdoor Section With FY4ANF018 Indoor Section																			
525	72	20.64	10.54	1.23	19.61	10.14	1.39	18.55	9.74	1.56	17.47	9.33	1.76	16.33	8.90	1.97	15.11	8.45	2.22
	67	18.78	13.08	1.25	17.82	12.66	1.40	16.83	12.24	1.58	15.83	11.82	1.77	14.77	11.38	1.99	13.63	10.91	2.24
	63	17.40	12.62	1.26	16.51	12.21	1.42	15.58	11.79	1.59	14.63	11.36	1.79	13.63	10.91	2.01	12.56	10.44	2.25
	62	17.05	15.58	1.26	16.18	15.14	1.42	15.29	14.69	1.59	14.39	14.21	1.79	13.52	13.52	2.01	12.66	12.66	2.25
	57	16.48	16.48	1.27	15.79	15.79	1.42	15.07	15.07	1.60	14.32	14.32	1.79	13.52	13.52	2.01	12.66	12.66	2.25
600	72	21.01	11.02	1.25	19.93	10.62	1.41	18.83	10.20	1.59	17.71	9.79	1.78	16.54	9.36	2.00	15.27	8.90	2.24
	67	19.12	13.88	1.27	18.12	13.46	1.43	17.10	13.03	1.60	16.05	12.60	1.80	14.96	12.15	2.02	13.79	11.68	2.26
	63	17.74	13.38	1.29	16.80	12.96	1.44	15.84	12.53	1.62	14.85	12.09	1.81	13.82	11.63	2.04	12.72	11.15	2.28
	62	17.42	16.67	1.29	16.53	16.19	1.45	15.64	15.64	1.62	14.84	14.84	1.81	14.00	14.00	2.03	13.09	13.09	2.27
	57	17.14	17.14	1.29	16.40	16.40	1.45	15.64	15.64	1.62	14.84	14.84	1.81	14.00	14.00	2.03	13.09	13.09	2.27
675	72	21.28	11.47	1.28	20.17	11.06	1.44	19.03	10.64	1.61	17.88	10.23	1.81	16.68	9.80	2.03	15.38	9.33	2.27
	67	19.38	14.65	1.30	18.34	14.22	1.46	17.29	13.79	1.63	16.22	13.35	1.83	15.10	12.89	2.05	13.91	12.39	2.29
	63	17.99	14.10	1.31	17.02	13.67	1.47	16.03	13.23	1.65	15.02	12.78	1.84	13.96	12.31	2.06	12.83	11.81	2.31
	62	17.74	17.61	1.31	16.91	16.91	1.47	16.10	16.10	1.64	15.27	15.27	1.84	14.39	14.39	2.06	13.44	13.44	2.30
	57	17.69	17.69	1.31	16.91	16.91	1.47	16.10	16.10	1.64	15.27	15.27	1.84	14.39	14.39	2.06	13.44	13.44	2.30

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANF018	1.00	1.00	
FE4ANF002	1.04	0.91	
FF1ENP018	1.00	1.00	
FF1ENP024	1.02	1.00	
FV4BNF002	1.04	0.91	
FX4CNF018	1.02	0.92	
FX4CNF024	1.04	0.91	
FY4ANF024	1.01	1.01	
CAP**1814A**	0.99	0.99	
CAP**2414A**	1.02	0.99	
CAP**2417A**	1.02	0.99	
CNPF*2418A**	1.02	0.99	
CNPH*2417A**	1.02	0.99	
CNPV*1814A**	0.99	0.97	
CNPV*2414A**	1.02	0.99	
CNPV*2417A**	1.02	0.99	
CSPH*2412A**	1.02	0.99	

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**1814A**	0.99	0.89	315(A,J)AV036070
CAP**2414A**	1.01	0.91	315(A,J)AV036070
CNPH*2417A**	1.01	0.91	315(A,J)AV036070
CNPV*1814A**	0.99	0.89	315(A,J)AV036070
CNPV*2414A**	1.01	0.91	315(A,J)AV036070
CSPH*2412A**	1.01	0.91	315(A,J)AV036070
CAP**2417A**	1.02	0.89	315(A,J)AV048090
CNPH*2417A**	1.02	0.91	315(A,J)AV048090
CNPV*2417A**	1.02	0.91	315(A,J)AV048090
CSPH*2412A**	1.02	0.89	315(A,J)AV048090
CNPH*2417A**	1.01	0.91	355AAV042040
CSPH*2412A**	1.01	0.91	355AAV042040
CAP**2417A**	1.01	0.91	355AAV042060
CNPH*2417A**	1.01	0.91	355AAV042060
CNPV*2417A**	1.01	0.91	355AAV042060
CSPH*2412A**	1.01	0.89	355AAV042060
CNPH*2417A**	1.02	0.91	355AAV042080
CSPH*2412A**	1.01	0.91	355AAV042080

See note on pg. 24

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DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
		75				85				95				105				115				125			
		CFM	EWB	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**				
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		
223ANA024—A Outdoor Section With FY4ANF024 Indoor Section																									
700	72	26.97	13.80	1.66	25.72	13.32	1.86	24.41	12.81	2.09	23.03	12.29	2.34	21.54	11.73	2.61	19.91	11.13	2.91						
	67	24.65	17.15	1.66	23.49	16.65	1.86	22.26	16.12	2.09	20.97	15.57	2.34	19.59	15.00	2.62	18.09	14.38	2.92						
	63	22.94	16.60	1.66	21.84	16.09	1.86	20.68	15.56	2.09	19.46	15.01	2.34	18.16	14.43	2.62	16.76	13.81	2.92						
	62	22.50	20.46	1.66	21.42	19.93	1.86	20.30	19.36	2.09	19.14	18.75	2.34	17.96	17.96	2.62	16.82	16.82	2.92						
800	72	27.42	14.42	1.69	26.13	13.93	1.90	24.76	13.42	2.12	24.27	13.23	2.06	21.80	12.33	2.65	20.12	11.72	2.94						
	67	25.09	18.20	1.69	23.88	17.68	1.90	22.60	17.15	2.12	21.27	16.60	2.37	19.84	16.01	2.65	18.29	15.38	2.95						
	63	23.37	17.58	1.69	22.22	17.07	1.90	21.02	16.52	2.13	19.76	15.96	2.38	18.41	15.37	2.65	16.96	14.73	2.95						
	62	22.96	21.88	1.69	21.86	21.30	1.90	20.72	20.69	2.13	19.67	19.67	2.38	18.57	18.57	2.65	17.37	17.37	2.95						
900	72	27.75	15.01	1.73	26.42	14.51	1.93	26.10	14.39	1.86	24.55	13.82	2.09	22.87	13.22	2.36	20.25	12.28	2.98						
	67	25.40	19.19	1.73	24.16	18.68	1.93	22.85	18.13	2.16	21.48	17.57	2.41	20.02	16.97	2.69	18.43	16.31	2.98						
	63	23.68	18.52	1.73	22.50	17.99	1.93	21.26	17.44	2.16	19.97	16.87	2.41	18.59	16.26	2.69	17.11	15.60	2.99						
	62	23.36	23.12	1.73	22.32	22.31	1.93	21.30	21.30	2.16	20.23	20.23	2.41	19.07	19.07	2.69	17.81	17.81	2.99						
57	23.27	23.27	1.73	22.31	22.31	1.93	21.30	21.30	2.16	20.23	20.23	2.41	19.07	19.07	2.69	17.81	17.81	2.99							

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANF024	1.00	1.00	
FE4ANF002	1.03	0.92	
FE4ANF003	1.04	0.91	
FF1ENP024	1.01	0.99	
FF1ENP030	1.01	1.02	
FV4BNF002	1.03	0.92	
FV4BNF003	1.04	0.91	
FX4CNF024	1.02	0.94	
FX4CNF030	1.04	0.93	
FY4ANF030	1.02	1.01	
CAP**2414A**	1.01	1.01	
CAP**2417A**	1.01	1.01	
CAP**3014A**	1.02	1.01	
CAP**3017A**	1.02	1.01	
CNPF*2418A**	1.01	1.01	
CNPH*2417A**	1.01	1.01	
CNPH*3017A**	1.02	1.01	
CNPV*2414A**	1.01	1.01	
CNPV*2417A**	1.01	1.01	
CNPV*3014A**	1.02	1.01	
CNPV*3017A**	1.02	1.01	
CSPH*2412A**	1.01	1.00	
CSPH*3012A**	1.02	1.01	
CAP**2414A**	1.00	0.91	315(A,J)AV036070
CAP**3014A**	1.02	0.91	315(A,J)AV036070
CNPH*2417A**	1.00	0.91	315(A,J)AV036070
CNPH*3017A**	1.02	0.91	315(A,J)AV036070
CNPV*2414A**	1.00	0.91	315(A,J)AV036070
CNPV*3014A**	1.02	0.91	315(A,J)AV036070
CSPH*2412A**	1.01	0.91	315(A,J)AV036070
CSPH*3012A**	1.02	0.91	315(A,J)AV036070
CAP**2417A**	1.01	0.91	315(A,J)AV048090
CAP**3017A**	1.02	0.91	315(A,J)AV048090
CNPH*2417A**	1.01	0.91	315(A,J)AV048090
CNPH*3017A**	1.02	0.91	315(A,J)AV048090
CNPV*2417A**	1.01	0.92	315(A,J)AV048090
CNPV*3017A**	1.02	0.91	315(A,J)AV048090
CSPH*2412A**	1.01	0.91	315(A,J)AV048090
CSPH*3012A**	1.02	0.91	315(A,J)AV048090
CNPH*2417A**	1.01	0.92	315(A,J)AV060110
CNPH*3017A**	1.02	0.91	315(A,J)AV060110
CSPH*2412A**	1.01	0.92	315(A,J)AV060110
CSPH*3012A**	1.02	0.91	315(A,J)AV060110

Cooling Indoor Model	Capacity	Power	Furnace Model
CNPH*2417A**	1.01	0.92	315(A,J)AV066135
CNPH*3017A**	1.03	0.92	315(A,J)AV066135
CSPH*2412A**	1.01	0.91	315(A,J)AV066135
CSPH*3012A**	1.02	0.91	315(A,J)AV066135
CNPH*2417A**	1.01	0.92	315(A,J)AV066155
CNPH*3017A**	1.03	0.92	315(A,J)AV066155
CSPH*2412A**	1.01	0.91	315(A,J)AV066155
CSPH*3012A**	1.02	0.91	315(A,J)AV066155
CNPH*2417A**	1.01	0.92	355AAV042040
CNPH*3017A**	1.02	0.91	355AAV042040
CSPH*2412A**	1.01	0.92	355AAV042040
CSPH*3012A**	1.02	0.91	355AAV042040
CAP**2417A**	1.01	0.91	355AAV042060
CAP**3017A**	1.02	0.91	355AAV042060
CNPH*2417A**	1.01	0.92	355AAV042060
CNPH*3017A**	1.02	0.91	355AAV042060
CNPV*2417A**	1.01	0.92	355AAV042060
CNPV*3017A**	1.02	0.91	355AAV042060
CSPH*2412A**	1.01	0.91	355AAV042060
CSPH*3012A**	1.02	0.91	355AAV042060
CNPH*2417A**	1.01	0.92	355AAV042080
CNPH*3017A**	1.02	0.91	355AAV042080
CSPH*2412A**	1.01	0.92	355AAV042080
CSPH*3012A**	1.02	0.91	355AAV042080
CNPH*2417A**	1.01	0.92	355AAV060080
CNPH*3017A**	1.02	0.91	355AAV060080
CSPH*2412A**	1.01	0.91	355AAV060080
CSPH*3012A**	1.02	0.91	355AAV060080
CNPH*2417A**	1.01	0.92	355AAV060100
CNPH*3017A**	1.03	0.92	355AAV060100
CSPH*2412A**	1.01	0.91	355AAV060100
CSPH*3012A**	1.02	0.91	355AAV060100
CNPH*2417A**	1.00	0.91	355AAV060120
CNPH*3017A**	1.02	0.91	355AAV060120
CSPH*2412A**	1.01	0.92	355AAV060120
CSPH*3012A**	1.02	0.91	355AAV060120

See note on pg. 24

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
		75				85				95				105				115				125			
		CFM	EWB	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**				
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡					
223ANA030-A Outdoor Section With FY4ANF030 Indoor Section																									
875	72	34.73	17.57	2.23	33.11	16.93	2.50	31.41	16.27	2.79	29.62	15.58	3.11	27.66	14.83	3.45	25.48	14.02	3.83						
	67	31.78	21.67	2.22	30.31	21.02	2.49	28.75	20.35	2.78	27.09	19.64	3.10	25.29	18.88	3.45	23.31	18.06	3.82						
	63	29.62	21.02	2.22	28.24	20.36	2.49	26.78	19.68	2.78	25.22	18.97	3.10	23.55	18.21	3.44	21.70	17.39	3.82						
	62	29.07	25.74	2.22	27.72	25.06	2.48	26.29	24.35	2.77	24.80	23.58	3.09	23.20	22.72	3.44	21.54	21.54	3.82						
1000	57	27.79	27.79	2.22	26.72	26.72	2.48	25.58	25.58	2.77	24.36	24.36	3.09	23.03	23.03	3.44	21.54	21.54	3.82						
	72	35.33	18.30	2.28	33.65	17.66	2.54	31.88	16.99	2.83	30.02	16.29	3.15	27.99	15.53	3.50	25.73	14.71	3.87						
	67	32.36	22.91	2.27	30.83	22.26	2.53	29.20	21.57	2.83	27.47	20.85	3.15	25.61	20.07	3.49	23.55	19.23	3.87						
	63	30.19	22.19	2.27	28.75	21.52	2.53	27.22	20.83	2.82	25.60	20.11	3.14	23.86	19.33	3.49	21.95	18.48	3.86						
	62	29.66	27.43	2.27	28.27	26.72	2.53	26.81	25.94	2.82	25.31	25.03	3.14	23.78	23.78	3.49	22.20	22.20	3.86						
1125	57	28.86	28.86	2.26	27.72	27.72	2.53	26.50	26.50	2.82	25.21	25.21	3.14	23.79	23.79	3.49	22.20	22.20	3.86						
	72	35.80	19.01	2.32	34.05	18.36	2.59	32.23	17.68	2.88	30.31	16.97	3.20	28.22	16.21	3.54	25.90	15.37	3.92						
	67	32.81	24.12	2.32	31.22	23.45	2.58	29.53	22.75	2.87	27.75	22.01	3.19	25.84	21.22	3.54	23.73	20.35	3.91						
	63	30.63	23.32	2.31	29.13	22.65	2.58	27.56	21.94	2.87	25.89	21.20	3.19	24.10	20.40	3.53	22.14	19.52	3.91						
	62	30.16	28.99	2.31	28.75	28.19	2.57	27.28	27.28	2.87	25.89	25.89	3.19	24.40	24.40	3.53	22.73	22.73	3.91						
57	29.74	29.74	2.31	28.54	28.54	2.57	27.26	27.26	2.87	25.89	25.89	3.19	24.40	24.40	3.54	22.73	22.73	3.91							

223A

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANF030	1.00	1.00	
FE4ANF002	1.01	0.93	
FE4ANF003	1.02	0.92	
FE4ANF005	1.05	0.91	
FF1ENP030	0.99	1.00	
FF1ENP036	1.01	1.00	
FV4BNF002	1.01	0.93	
FV4BNF003	1.02	0.92	
FV4BNF005	1.05	0.91	
FX4CN(B,F)036	1.03	0.95	
FX4CNF030	1.01	0.95	
FY4ANF036	1.01	1.02	
CAP**3014A**	1.01	1.01	
CAP**3017A**	1.01	1.01	
CAP**3614A**	0.98	0.98	
CAP**3617A**	1.01	1.01	
CAP**3621A**	1.01	1.01	
CNPF*3618A**	1.01	1.01	
CNPH*3017A**	1.01	1.01	
CNPH*3617A**	1.01	1.01	
CNPV*3014A**	1.01	1.01	
CNPV*3017A**	1.01	1.01	
CNPV*3617A**	1.01	1.01	
CNPV*3621A**	1.01	1.01	
CSPH*3012A**	1.01	1.00	
CSPH*3612A**	1.01	0.99	
CAP**3014A**	1.00	0.94	315(A,J)AV036070
CAP**3614A**	0.97	0.90	315(A,J)AV036070
CNPH*3017A**	1.01	0.93	315(A,J)AV036070
CNPH*3617A**	1.01	0.93	315(A,J)AV036070
CNPV*3014A**	1.00	0.94	315(A,J)AV036070
CSPH*3012A**	1.00	0.93	315(A,J)AV036070
CSPH*3612A**	1.01	0.92	315(A,J)AV036070
CAP**3017A**	1.01	0.92	315(A,J)AV048090
CAP**3617A**	1.01	0.92	315(A,J)AV048090
CNPH*3017A**	1.01	0.92	315(A,J)AV048090
CNPH*3617A**	1.01	0.92	315(A,J)AV048090
CNPV*3017A**	1.01	0.92	315(A,J)AV048090
CNPV*3617A**	1.01	0.92	315(A,J)AV048090
CSPH*3012A**	1.00	0.92	315(A,J)AV048090
CSPH*3612A**	1.01	0.91	315(A,J)AV048090
CAP**3621A**	1.01	0.92	315(A,J)AV060110
CNPH*3017A**	1.01	0.92	315(A,J)AV060110
CNPH*3617A**	1.01	0.92	315(A,J)AV060110
CNPV*3621A**	1.01	0.92	315(A,J)AV060110
CSPH*3012A**	1.00	0.92	315(A,J)AV060110
CSPH*3612A**	1.01	0.91	315(A,J)AV060110
CNPH*3017A**	1.01	0.92	315(A,J)AV066135
CNPH*3617A**	1.01	0.92	315(A,J)AV066135
CSPH*3012A**	1.00	0.92	315(A,J)AV066135
CSPH*3612A**	1.01	0.90	315(A,J)AV066135
CNPH*3017A**	1.01	0.92	315(A,J)AV066155
CNPH*3617A**	1.01	0.92	315(A,J)AV066155
CSPH*3012A**	1.00	0.92	315(A,J)AV066155
CSPH*3612A**	1.03	0.92	315(A,J)AV066155

Cooling Indoor Model	Capacity	Power	Furnace Model
CNPH*3017A**	1.01	0.94	355AAV042040
CNPH*3617A**	1.01	0.94	355AAV042040
CSPH*3012A**	1.00	0.94	355AAV042040
CSPH*3612A**	1.01	0.92	355AAV042040
CAP**3017A**	1.00	0.93	355AAV042060
CAP**3617A**	1.01	0.92	355AAV042060
CNPH*3017A**	1.00	0.94	355AAV042060
CNPH*3617A**	1.00	0.93	355AAV042060
CNPV*3017A**	1.00	0.93	355AAV042060
CNPV*3617A**	1.00	0.93	355AAV042060
CSPH*3012A**	1.00	0.93	355AAV042060
CSPH*3612A**	1.01	0.92	355AAV042060
CAP**3621A**	1.01	0.92	355AAV042080
CNPH*3017A**	1.01	0.93	355AAV042080
CNPH*3617A**	1.01	0.93	355AAV042080
CNPV*3621A**	1.01	0.93	355AAV042080
CSPH*3012A**	1.00	0.94	355AAV042080
CSPH*3612A**	1.01	0.92	355AAV042080
CAP**3621A**	1.01	0.92	355AAV060080
CNPH*3017A**	1.01	0.93	355AAV060080
CNPH*3617A**	1.01	0.93	355AAV060080
CNPV*3621A**	1.01	0.93	355AAV060080
CSPH*3012A**	1.00	0.93	355AAV060080
CSPH*3612A**	1.01	0.92	355AAV060080
CAP**3621A**	1.01	0.92	355AAV060100
CNPH*3017A**	1.01	0.93	355AAV060100
CNPH*3617A**	1.01	0.93	355AAV060100
CNPV*3621A**	1.01	0.92	355AAV060100
CSPH*3012A**	1.00	0.93	355AAV060100
CSPH*3612A**	1.01	0.91	355AAV060100
CNPH*3017A**	1.01	0.92	355AAV060120
CNPH*3617A**	1.01	0.92	355AAV060120
CSPH*3012A**	1.00	0.92	355AAV060120
CSPH*3612A**	1.01	0.91	355AAV060120

See note on pg. 24

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
		75				85				95				105				115				125			
		CFM	EWB	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†		Total System KW**				
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡					
223ANA036-A Outdoor Section With FY4ANF042 Indoor Section																									
1050	72	40.73	21.10	2.51	38.83	20.37	2.78	36.79	19.60	3.08	34.66	18.81	3.42	32.34	17.95	3.78	31.18	17.52	3.75						
	67	37.22	26.47	2.51	35.44	25.71	2.78	33.56	24.91	3.08	31.57	24.08	3.42	29.44	23.20	3.78	27.10	22.25	4.17						
	63	34.65	25.59	2.51	32.97	24.83	2.78	31.20	24.02	3.08	29.33	23.18	3.41	27.32	22.30	3.78	25.14	21.34	4.17						
	62	34.00	31.76	2.51	32.37	30.94	2.78	30.68	30.05	3.08	28.95	28.95	3.41	27.33	27.33	3.78	26.26	26.26	3.72						
1200	57	33.18	33.18	2.51	31.86	31.86	2.78	30.45	30.45	3.08	28.95	28.95	3.41	27.33	27.33	3.77	26.26	26.26	3.72						
	72	41.35	22.07	2.57	39.36	21.33	2.84	37.27	20.55	3.14	35.06	19.74	3.47	32.66	18.88	3.84	30.03	17.94	4.23						
	67	37.80	28.11	2.57	35.95	27.34	2.84	34.00	26.53	3.14	31.95	25.68	3.47	29.75	24.79	3.83	27.35	23.80	4.23						
	63	35.22	27.14	2.57	33.47	26.36	2.84	31.63	25.53	3.14	29.70	24.68	3.47	27.64	23.77	3.83	25.99	22.78	4.22						
1350	62	34.66	33.91	2.57	33.01	33.01	2.84	31.50	31.50	3.14	29.91	29.91	3.47	28.19	28.19	3.83	26.29	26.29	4.23						
	57	34.40	34.40	2.57	32.99	32.99	2.84	31.50	31.50	3.14	29.91	29.91	3.47	28.19	28.19	3.83	26.29	26.29	4.23						
	72	41.78	22.99	2.62	39.74	22.24	2.90	37.58	21.45	3.20	35.32	20.64	3.53	32.87	19.76	3.89	30.17	18.81	4.28						
	67	38.22	29.69	2.62	36.32	28.90	2.90	34.31	28.07	3.20	32.21	27.20	3.53	29.96	26.28	3.89	27.51	25.25	4.28						
1350	63	35.62	28.60	2.62	33.83	27.80	2.90	31.94	26.97	3.20	29.96	26.09	3.53	27.86	25.15	3.89	25.57	24.11	4.28						
	62	35.39	35.39	2.62	33.91	33.91	2.90	32.35	32.35	3.20	30.68	30.68	3.53	28.88	28.88	3.89	26.88	26.88	4.28						
	57	35.39	35.39	2.62	33.92	33.92	2.90	32.35	32.35	3.20	30.69	30.69	3.53	28.88	28.88	3.89	26.88	26.88	4.28						

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANF042	1.00	1.00	
FE4ANF002	0.98	0.93	
FE4ANF003	0.99	0.91	
FE4ANF005	1.03	0.91	
FF1ENP036	0.99	0.98	
FV4BNF002	0.98	0.93	
FV4BNF003	0.99	0.91	
FV4BNF005	1.03	0.91	
FX4CN(B,F)036	1.00	0.95	
FX4CN(B,F)042	1.02	0.94	
FY4ANF036	0.97	0.98	
CAP**3614A**	0.95	0.96	
CAP**3617A**	0.98	0.99	
CAP**3621A**	0.98	0.99	
CAP**4221A**	0.99	0.99	
CAP**4224A**	0.99	0.99	
CNPF*3618A**	0.98	0.99	
CNPH*3617A**	0.98	0.99	
CNPH*4221A**	0.99	0.99	
CNPV*3617A**	0.98	0.99	
CNPV*3621A**	0.98	0.99	
CNPV*4221A**	0.99	0.99	
CSPH*3612A**	0.98	0.97	
CSPH*4212A**	0.99	0.98	
CAP**3614A**	0.95	0.91	315(A,J)AV036070
CNPH*3617A**	0.98	0.92	315(A,J)AV036070
CNPH*4221A**	0.99	0.91	315(A,J)AV036070
CSPH*3612A**	0.98	0.91	315(A,J)AV036070
CSPH*4212A**	0.99	0.91	315(A,J)AV036070
CAP**3617A**	0.98	0.91	315(A,J)AV048090
CNPH*3617A**	0.98	0.93	315(A,J)AV048090
CNPH*4221A**	0.99	0.90	315(A,J)AV048090
CNPV*3617A**	0.98	0.93	315(A,J)AV048090
CSPH*3612A**	0.99	0.91	315(A,J)AV048090
CSPH*4212A**	0.99	0.91	315(A,J)AV048090
CAP**3621A**	0.99	0.91	315(A,J)AV060110
CAP**4221A**	0.99	0.92	315(A,J)AV060110
CNPH*3617A**	0.98	0.93	315(A,J)AV060110
CNPH*4221A**	0.99	0.90	315(A,J)AV060110
CNPV*3621A**	0.98	0.93	315(A,J)AV060110
CNPV*4221A**	0.99	0.90	315(A,J)AV060110
CSPH*3612A**	0.99	0.91	315(A,J)AV060110
CSPH*4212A**	0.99	0.92	315(A,J)AV060110
CAP**4224A**	0.99	0.92	315(A,J)AV066135
CNPH*3617A**	0.98	0.93	315(A,J)AV066135
CNPH*4221A**	0.99	0.90	315(A,J)AV066135

Cooling Indoor Model	Capacity	Power	Furnace Model
CSPH*3612A**	0.99	0.91	315(A,J)AV066135
CSPH*4212A**	0.99	0.90	315(A,J)AV066135
CAP**4224A**	0.99	0.90	315(A,J)AV066155
CNPH*3617A**	0.98	0.91	315(A,J)AV066155
CNPH*4221A**	0.99	0.90	315(A,J)AV066155
CSPH*3612A**	0.99	0.90	315(A,J)AV066155
CSPH*4212A**	0.99	0.90	315(A,J)AV066155
CAP**4224A**	0.99	0.94	355AAV042040
CNPH*3617A**	0.98	0.93	355AAV042040
CNPH*4221A**	0.98	0.91	355AAV042040
CSPH*3612A**	0.98	0.93	355AAV042040
CSPH*4212A**	0.98	0.91	355AAV042040
CAP**3617A**	0.98	0.93	355AAV042060
CNPH*3617A**	0.98	0.92	355AAV042060
CNPH*4221A**	0.99	0.90	355AAV042060
CNPV*3617A**	0.98	0.92	355AAV042060
CSPH*3612A**	0.98	0.91	355AAV042060
CSPH*4212A**	0.98	0.91	355AAV042060
CAP**3621A**	0.98	0.92	355AAV042080
CAP**4221A**	0.98	0.93	355AAV042080
CNPH*3617A**	0.97	0.94	355AAV042080
CNPH*4221A**	0.98	0.91	355AAV042080
CNPV*3621A**	0.98	0.94	355AAV042080
CNPV*4221A**	0.98	0.91	355AAV042080
CSPH*3612A**	0.98	0.93	355AAV042080
CSPH*4212A**	0.98	0.91	355AAV042080
CAP**3621A**	0.98	0.92	355AAV060080
CAP**4221A**	0.99	0.91	355AAV060080
CNPH*3617A**	0.98	0.92	355AAV060080
CNPH*4221A**	0.99	0.91	355AAV060080
CNPV*3621A**	0.98	0.92	355AAV060080
CNPV*4221A**	0.99	0.91	355AAV060080
CSPH*3612A**	0.98	0.91	355AAV060080
CSPH*4212A**	0.99	0.91	355AAV060080
CAP**3621A**	0.98	0.91	355AAV060100
CAP**4221A**	0.99	0.91	355AAV060100
CNPH*3617A**	0.98	0.92	355AAV060100
CNPH*4221A**	0.99	0.91	355AAV060100
CNPV*3621A**	0.98	0.93	355AAV060100
CNPV*4221A**	0.99	0.91	355AAV060100
CSPH*3612A**	0.98	0.91	355AAV060100
CSPH*4212A**	0.99	0.91	355AAV060100
CAP**4224A**	0.99	0.91	355AAV060120
CNPH*3617A**	0.98	0.92	355AAV060120
CNPH*4221A**	0.99	0.90	355AAV060120
CSPH*3612A**	0.98	0.91	355AAV060120
CSPH*4212A**	0.99	0.91	355AAV060120

See note on pg. 24

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
		75				85			95			105			115			125		
		CFM	EWB	Capacity MBtu/h†		Total Sys-tem KW**	Capacity MBtu/h†		Total Sys-tem KW**	Capacity MBtu/h†		Total Sys-tem KW**	Capacity MBtu/h†		Total Sys-tem KW**	Capacity MBtu/h†		Total Sys-tem KW**	Capacity MBtu/h†	
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡
223ANA048 – A Outdoor Section With FY4ANF048 Indoor Section																				
1400	72	55.40	28.31	3.28	52.85	27.32	3.64	50.16	26.29	4.04	47.32	25.21	4.48	44.24	24.07	4.96	40.83	22.81	5.48	
	67	50.66	35.30	3.27	48.32	34.30	3.63	45.85	33.24	4.03	43.23	32.13	4.47	40.39	30.96	4.95	37.28	29.68	5.48	
	63	47.16	34.17	3.27	44.97	33.16	3.63	42.65	32.10	4.03	40.18	30.98	4.47	37.54	29.81	4.95	34.64	28.52	5.47	
	62	46.25	42.22	3.27	44.12	41.16	3.63	41.87	40.03	4.03	39.52	38.79	4.47	37.13	37.13	4.95	34.77	34.77	5.47	
	57	44.75	44.75	3.27	43.04	43.04	3.63	41.21	41.21	4.03	39.26	39.26	4.47	37.13	37.13	4.95	34.77	34.77	5.47	
1600	72	56.26	29.55	3.36	53.63	28.56	3.72	50.81	27.50	4.12	47.87	26.42	4.56	44.68	25.26	5.04	41.16	23.99	5.56	
	67	51.50	37.44	3.36	49.07	36.42	3.72	46.50	35.35	4.12	43.77	34.22	4.56	40.83	33.02	5.04	37.62	31.70	5.56	
	63	47.98	36.18	3.35	45.70	35.15	3.71	43.28	34.07	4.11	40.73	32.94	4.55	37.99	31.73	5.03	35.00	30.41	5.56	
	62	47.16	45.12	3.35	44.97	43.96	3.71	42.69	42.69	4.11	40.59	40.59	4.55	38.33	38.33	5.03	35.82	35.82	5.56	
	57	46.44	46.44	3.35	44.61	44.61	3.71	42.67	42.67	4.11	40.59	40.59	4.55	38.34	38.34	5.03	35.83	35.83	5.56	
1800	72	56.87	30.73	3.45	54.16	29.72	3.81	51.25	28.65	4.20	48.26	27.57	4.64	44.97	26.39	5.12	41.36	25.11	5.64	
	67	52.10	39.48	3.44	49.59	38.45	3.80	46.94	37.35	4.20	44.13	36.19	4.64	41.13	34.96	5.12	37.84	33.60	5.64	
	63	48.58	38.09	3.44	46.22	37.05	3.80	43.74	35.94	4.20	41.11	34.78	4.64	38.30	33.54	5.12	35.25	32.17	5.64	
	62	47.96	47.60	3.44	45.90	45.90	3.80	43.85	43.85	4.20	41.66	41.66	4.64	39.30	39.30	5.12	36.65	36.65	5.64	
	57	47.82	47.82	3.44	45.90	45.90	3.80	43.86	43.86	4.20	41.67	41.67	4.64	39.30	39.30	5.12	36.65	36.65	5.64	

223A

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANF048	1.00	1.00	
FE4ANB006	1.03	0.89	
FE4ANF005	1.01	0.89	
FV4BNB006	1.03	0.89	
FV4BNF005	1.01	0.89	
FX4CN(B,F)048	1.02	0.94	
FX4CN(B,F)060	1.03	0.93	
FY4ANB060	1.02	1.00	
CAP**4817A**	0.97	0.97	
CAP**4821A**	0.99	0.99	
CAP**4824A**	0.99	0.99	
CAP**6021A**	1.01	1.01	
CAP**6024A**	1.01	1.01	
CNPF*4818A**	0.97	0.97	
CNPH*4821A**	0.99	0.99	
CNPH*6024A**	1.01	1.01	
CNPV*4821A**	0.99	0.99	
CNPV*4824A**	0.99	0.99	
CNPV*6024A**	1.01	1.01	
CSPH*4812A**	0.99	0.99	
CSPH*6012A**	1.01	1.01	
CAP**4817A**	0.97	0.91	315(A,J)AV048090
CNPH*4821A**	0.98	0.92	315(A,J)AV048090
CNPH*6024A**	1.00	0.92	315(A,J)AV048090
CSPH*4812A**	0.98	0.92	315(A,J)AV048090
CSPH*6012A**	1.00	0.92	315(A,J)AV048090
CAP**4821A**	0.98	0.92	315(A,J)AV060110
CAP**6021A**	1.00	0.92	315(A,J)AV060110
CNPH*4821A**	0.98	0.92	315(A,J)AV060110
CNPH*6024A**	1.00	0.92	315(A,J)AV060110
CNPV*4821A**	0.98	0.92	315(A,J)AV060110
CSPH*4812A**	0.98	0.92	315(A,J)AV060110
CSPH*6012A**	1.00	0.92	315(A,J)AV060110
CAP**4824A**	0.98	0.90	315(A,J)AV066135
CAP**6024A**	1.01	0.93	315(A,J)AV066135
CNPH*4821A**	0.99	0.91	315(A,J)AV066135
CNPH*6024A**	1.00	0.90	315(A,J)AV066135
CNPV*4824A**	0.98	0.90	315(A,J)AV066135
CNPV*6024A**	1.00	0.90	315(A,J)AV066135
CSPH*4812A**	0.98	0.90	315(A,J)AV066135
CSPH*6012A**	1.00	0.90	315(A,J)AV066135
CAP**4824A**	0.99	0.93	315(A,J)AV066155
CAP**6024A**	1.01	0.91	315(A,J)AV066155
CNPH*4821A**	0.99	0.91	315(A,J)AV066155
CNPH*6024A**	1.01	0.91	315(A,J)AV066155
CNPV*4824A**	0.99	0.93	315(A,J)AV066155
CNPV*6024A**	1.01	0.91	315(A,J)AV066155
CSPH*4812A**	0.98	0.90	315(A,J)AV066155
CSPH*6012A**	1.00	0.90	315(A,J)AV066155

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**4821A**	0.98	0.92	355AAV060080
CAP**6021A**	1.00	0.92	355AAV060080
CNPH*4821A**	0.98	0.92	355AAV060080
CNPH*6024A**	1.00	0.94	355AAV060080
CNPV*4821A**	0.98	0.92	355AAV060080
CSPH*4812A**	0.98	0.92	355AAV060080
CSPH*6012A**	1.00	0.92	355AAV060080
CAP**4821A**	0.98	0.92	355AAV060100
CAP**6021A**	1.00	0.92	355AAV060100
CNPH*4821A**	0.98	0.92	355AAV060100
CNPH*6024A**	1.00	0.92	355AAV060100
CNPV*4821A**	0.98	0.92	355AAV060100
CSPH*4812A**	0.98	0.92	355AAV060100
CSPH*6012A**	1.00	0.92	355AAV060100
CAP**4824A**	0.98	0.92	355AAV060120
CAP**6024A**	1.00	0.92	355AAV060120
CNPH*4821A**	0.98	0.92	355AAV060120
CNPH*6024A**	1.00	0.92	355AAV060120
CNPV*4824A**	0.98	0.92	355AAV060120
CNPV*6024A**	1.00	0.92	355AAV060120
CSPH*4812A**	0.98	0.92	355AAV060120
CSPH*6012A**	1.00	0.92	355AAV060120

See note on pg. 24

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
CFM	EWB	75				85			95			105			115			125		
		Capacity MBtu/h†		Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**	Capacity MBtu/h†	Total System KW**		
		Total	Sens‡																Total	Sens‡
223ANA060—A Outdoor Section With FY4ANF060 Indoor Section																				
1750	72	71.08	36.09	4.41	67.69	34.77	4.86	64.09	33.39	5.36	60.33	31.96	5.90	56.30	30.45	6.50	51.84	28.81	7.14	
	67	65.19	45.05	4.36	62.05	43.69	4.81	58.73	42.27	5.30	55.30	40.82	5.85	51.61	39.29	6.44	47.57	37.62	7.09	
	63	60.79	43.67	4.31	57.85	42.31	4.76	54.78	40.90	5.26	51.57	39.45	5.81	48.15	37.91	6.40	44.41	36.26	7.05	
	62	59.61	53.90	4.30	56.75	52.49	4.75	53.77	51.00	5.25	50.69	49.41	5.80	47.50	47.50	6.40	45.90	45.90	6.36	
2000	57	57.48	57.48	4.28	55.20	55.20	4.74	52.79	52.79	5.24	50.24	50.24	5.79	47.49	47.49	6.40	44.42	44.42	7.06	
	72	72.12	37.62	4.54	68.55	36.26	4.99	64.87	34.89	5.48	60.98	33.44	6.03	56.80	31.91	6.62	52.19	30.25	7.26	
	67	66.24	47.72	4.48	62.96	46.34	4.93	59.50	44.89	5.43	55.93	43.42	5.97	52.11	41.85	6.57	47.93	40.14	7.21	
	63	61.83	46.19	4.44	58.77	44.80	4.89	55.56	43.36	5.38	52.22	41.88	5.93	48.67	40.31	6.53	44.80	38.60	7.18	
	62	60.73	57.58	4.43	57.79	56.05	4.88	54.77	54.33	5.38	51.88	51.88	5.93	48.94	48.94	6.53	47.37	47.37	6.51	
2250	57	59.63	59.63	4.42	57.18	57.18	4.87	54.60	54.60	5.38	51.89	51.89	5.93	48.94	48.94	6.53	45.66	45.66	7.19	
	72	72.83	39.05	4.66	69.16	37.69	5.11	65.40	36.31	5.61	61.39	34.85	6.15	57.10	33.30	6.74	52.35	31.61	7.37	
	67	66.96	50.26	4.61	63.58	48.86	5.06	60.01	47.39	5.55	56.35	45.89	6.09	52.43	44.28	6.69	48.14	42.52	7.33	
	63	62.58	48.57	4.56	59.40	47.16	5.01	56.09	45.69	5.51	52.66	44.18	6.05	49.01	42.56	6.65	45.05	40.80	7.30	
	62	61.68	60.83	4.56	58.79	58.79	5.01	56.05	56.05	5.51	53.19	53.19	6.06	50.08	50.08	6.66	46.62	46.62	7.31	
57	61.37	61.37	4.55	58.79	58.79	5.01	56.06	56.06	5.51	53.19	53.19	6.06	50.08	50.08	6.66	46.62	46.62	7.31		

Cooling Indoor Model	Capacity	Power	Furnace Model
*FY4ANB060	1.00	1.00	
FE4ANB006	1.01	0.95	
FV4BNB006	1.01	0.95	
FX4CN(B,F)060	1.01	0.91	
CAP**6021A**	0.99	0.99	
CAP**6024A**	1.01	1.01	
CNPH*6024A**	1.00	1.00	
CNPV*6024A**	1.00	1.00	
CSPH*6012A**	1.01	1.01	

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**6021A**	0.97	0.94	315(A,J)AV060110
CNPH*6024A**	0.98	0.95	315(A,J)AV060110
CSPH*6012A**	0.99	0.96	315(A,J)AV060110
CAP**6024A**	0.99	0.93	315(A,J)AV066135
CNPH*6024A**	0.98	0.95	315(A,J)AV066135
CNPV*6024A**	0.98	0.95	315(A,J)AV066135
CSPH*6012A**	0.99	0.93	315(A,J)AV066135
CAP**6024A**	0.99	0.93	315(A,J)AV066155
CNPH*6024A**	0.99	0.93	315(A,J)AV066155
CNPV*6024A**	0.99	0.93	315(A,J)AV066155
CSPH*6012A**	0.99	0.93	315(A,J)AV066155

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

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

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

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

** System kw is total of indoor and outdoor unit kilowatts.

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

EWB — Entering Wet Bulb

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
		223ANA018-A Outdoor Section With FY4ANF018 Indoor Section																							
65	525	6.43	5.92	1.23	8.38	7.70	1.28	10.46	9.53	1.33	12.69	11.27	1.38	15.19	13.83	1.44	17.98	17.98	1.52	20.66	20.66	1.59	23.20	23.20	1.67
	600	6.59	6.06	1.25	8.56	7.87	1.29	10.68	9.74	1.33	12.92	11.48	1.37	15.51	14.11	1.43	18.25	18.25	1.49	20.72	20.72	1.55	23.20	23.20	1.61
	675	6.74	6.20	1.27	8.72	8.01	1.31	10.85	9.89	1.34	13.13	11.66	1.38	15.74	14.33	1.43	18.51	18.51	1.48	20.74	20.74	1.53	23.06	23.06	1.58
70	525	6.09	5.60	1.27	8.12	7.46	1.33	10.19	9.29	1.39	12.41	11.02	1.44	14.88	13.54	1.51	17.65	17.65	1.60	20.42	20.42	1.67	22.95	22.95	1.75
	600	6.25	5.75	1.29	8.28	7.61	1.35	10.39	9.47	1.39	12.63	11.22	1.44	15.15	13.79	1.50	18.00	18.00	1.57	20.51	20.51	1.63	23.03	23.03	1.70
	675	6.40	5.89	1.31	8.44	7.75	1.36	10.56	9.63	1.40	12.83	11.39	1.44	15.39	14.01	1.50	18.16	18.16	1.55	20.56	20.56	1.60	22.95	22.95	1.66
75	525	5.73	5.27	1.32	7.79	7.16	1.39	9.90	9.03	1.45	12.14	10.78	1.51	14.56	13.25	1.58	17.32	17.32	1.67	20.17	20.17	1.76	22.69	22.69	1.84
	600	5.89	5.42	1.34	7.97	7.32	1.40	10.10	9.21	1.46	12.36	10.97	1.51	14.84	13.50	1.57	17.64	17.64	1.65	20.35	20.35	1.71	22.82	22.82	1.79
	675	6.04	5.56	1.36	8.13	7.47	1.42	10.28	9.37	1.47	12.55	11.15	1.51	15.07	13.71	1.57	17.88	17.88	1.63	20.38	20.38	1.68	22.80	22.80	1.75

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF018	1.00	1.00	
FE4ANF002	0.96	0.88	
FF1ENP018	1.00	1.00	
FF1ENP024	0.99	0.97	
FV4BNF002	0.96	0.88	
FX4CNF018	0.98	0.92	
FX4CNF024	0.97	0.89	
FY4ANF024	0.99	0.99	
CAP**1814A**	1.00	1.01	
CAP**2414A**	1.00	0.97	
CAP**2417A**	1.00	0.97	
CNPF*2418A**	1.00	0.95	
CNPH*2417A**	1.00	0.95	
CNPV*1814A**	1.00	0.97	
CNPV*2414A**	1.00	0.95	
CNPV*2417A**	1.00	0.95	
CSPH*2412A**	0.99	0.95	
CAP**1814A**	0.95	0.96	315(A,J)AV036070
CAP**2414A**	0.96	0.92	315(A,J)AV036070
CNPH*2417A**	0.96	0.91	315(A,J)AV036070
CNPV*1814A**	0.95	0.92	315(A,J)AV036070
CNPV*2414A**	0.96	0.91	315(A,J)AV036070
CSPH*2412A**	0.96	0.91	315(A,J)AV036070
CAP**2417A**	0.96	0.91	315(A,J)AV048090
CNPH*2417A**	0.96	0.90	315(A,J)AV048090
CNPV*2417A**	0.96	0.90	315(A,J)AV048090
CSPH*2412A**	0.96	0.90	315(A,J)AV048090
CNPH*2417A**	0.96	0.91	355AAV042040
CSPH*2412A**	0.96	0.91	355AAV042040
CAP**2417A**	0.96	0.92	355AAV042060
CNPH*2417A**	0.96	0.91	355AAV042060
CNPV*2417A**	0.96	0.91	355AAV042060
CSPH*2412A**	0.96	0.91	355AAV042060
CNPH*2417A**	0.96	0.90	355AAV042080
CSPH*2412A**	0.96	0.90	355AAV042080

See note on pg. 31

223A

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
		223ANA024 - A Outdoor Section With FY4ANF024 Indoor Section																							
65	700	9.58	8.82	1.52	11.98	11.01	1.59	14.58	13.29	1.66	17.51	15.56	1.75	20.82	18.94	1.86	24.20	24.20	1.96	27.14	27.14	2.06	30.15	30.15	2.17
	800	9.77	8.99	1.54	12.19	11.20	1.60	14.81	13.51	1.66	17.80	15.81	1.74	21.14	19.24	1.84	24.17	24.17	1.91	26.94	26.94	2.00	29.60	29.60	2.09
	900	9.94	9.15	1.56	12.37	11.37	1.61	15.03	13.70	1.67	18.06	16.04	1.74	21.40	19.47	1.83	24.07	24.07	1.89	26.59	26.59	1.97	28.87	28.87	2.03
70	700	9.29	8.54	1.59	11.70	10.75	1.67	14.30	13.04	1.74	17.18	15.26	1.84	20.47	18.63	1.95	23.95	23.95	2.06	26.95	26.95	2.17	30.01	30.01	2.29
	800	9.48	8.72	1.61	11.91	10.94	1.67	14.53	13.25	1.74	17.46	15.51	1.82	20.79	18.92	1.93	24.00	24.00	2.01	26.83	26.83	2.11	29.61	29.61	2.20
	900	9.65	8.87	1.63	12.09	11.11	1.69	14.73	13.43	1.75	17.71	15.73	1.83	21.06	19.16	1.92	23.97	23.97	1.99	26.60	26.60	2.07	29.03	29.03	2.15
75	700	8.96	8.24	1.67	11.40	10.48	1.75	14.02	12.78	1.83	16.85	14.97	1.93	20.14	18.33	2.05	23.63	23.63	2.17	26.71	26.71	2.28	29.80	29.80	2.41
	800	9.15	8.42	1.68	11.61	10.67	1.75	14.25	12.99	1.83	17.13	15.21	1.91	20.44	18.60	2.03	23.84	23.84	2.12	26.68	26.68	2.22	29.54	29.54	2.32
	900	9.33	8.58	1.70	11.80	10.84	1.77	14.45	13.17	1.83	17.37	15.43	1.91	20.71	18.84	2.02	23.82	23.82	2.09	26.53	26.53	2.18	29.10	29.10	2.27

223A

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF024	1.00	1.00	
FE4ANF002	0.97	0.91	
FE4ANF003	0.96	0.90	
FF1ENP024	1.00	1.00	
FF1ENP030	1.01	1.00	
FV4BNF002	0.97	0.90	
FV4BNF003	0.96	0.90	
FX4CNF024	0.99	0.94	
FX4CNF030	0.98	0.91	
FY4ANF030	1.00	0.97	
CAP**2414A**	1.02	1.00	
CAP**2417A**	1.02	1.00	
CAP**3014A**	0.98	0.97	
CAP**3017A**	0.98	0.97	
CNPF*2418A**	1.02	0.98	
CNPH*2417A**	1.02	0.98	
CNPH*3017A**	0.98	0.97	
CNPV*2414A**	1.02	0.98	
CNPV*2417A**	1.02	0.98	
CNPV*3014A**	0.98	0.97	
CNPV*3017A**	0.98	0.97	
CSPH*2412A**	1.01	0.97	
CSPH*3012A**	0.97	0.96	
CAP**2414A**	0.98	0.96	315(A,J)AV036070
CAP**3014A**	0.96	0.93	315(A,J)AV036070
CNPH*2417A**	0.98	0.94	315(A,J)AV036070
CNPH*3017A**	0.96	0.93	315(A,J)AV036070
CNPV*2414A**	0.98	0.94	315(A,J)AV036070
CNPV*3014A**	0.96	0.93	315(A,J)AV036070
CSPH*2412A**	0.98	0.93	315(A,J)AV036070
CSPH*3012A**	0.95	0.92	315(A,J)AV036070
CAP**2417A**	0.98	0.94	315(A,J)AV048090
CAP**3017A**	0.96	0.92	315(A,J)AV048090
CNPH*2417A**	0.98	0.93	315(A,J)AV048090
CNPH*3017A**	0.96	0.92	315(A,J)AV048090
CNPV*2417A**	0.98	0.93	315(A,J)AV048090
CNPV*3017A**	0.96	0.92	315(A,J)AV048090
CSPH*2412A**	0.98	0.92	315(A,J)AV048090
CSPH*3012A**	0.95	0.91	315(A,J)AV048090
CNPH*2417A**	0.98	0.93	315(A,J)AV060110
CNPH*3017A**	0.96	0.92	315(A,J)AV060110
CSPH*2412A**	0.98	0.93	315(A,J)AV060110
CSPH*3012A**	0.95	0.92	315(A,J)AV060110
CNPH*2417A**	0.98	0.93	315(A,J)AV066135
CNPH*3017A**	0.96	0.92	315(A,J)AV066135
CSPH*2412A**	0.98	0.92	315(A,J)AV066135
CSPH*3012A**	0.95	0.91	315(A,J)AV066135
CNPH*2417A**	0.98	0.93	315(A,J)AV066155
CNPH*3017A**	0.96	0.92	315(A,J)AV066155
CSPH*2412A**	0.98	0.92	315(A,J)AV066155
CSPH*3012A**	0.95	0.91	315(A,J)AV066155

Heating Indoor Model	Capacity	Power	Furnace Model
CNPH*2417A**	0.98	0.93	355AAV042040
CNPH*3017A**	0.96	0.92	355AAV042040
CSPH*2412A**	0.98	0.93	355AAV042040
CSPH*3012A**	0.95	0.92	355AAV042040
CAP**2417A**	0.98	0.95	355AAV042060
CAP**3017A**	0.96	0.92	355AAV042060
CNPH*2417A**	0.98	0.94	355AAV042060
CNPH*3017A**	0.96	0.92	355AAV042060
CNPV*2417A**	0.98	0.94	355AAV042060
CNPV*3017A**	0.96	0.92	355AAV042060
CSPH*2412A**	0.98	0.93	355AAV042060
CSPH*3012A**	0.95	0.92	355AAV042060
CNPH*2417A**	0.98	0.93	355AAV042080
CNPH*3017A**	0.96	0.92	355AAV042080
CSPH*2412A**	0.98	0.93	355AAV042080
CSPH*3012A**	0.95	0.92	355AAV042080
CNPH*2417A**	0.98	0.93	355AAV060080
CNPH*3017A**	0.96	0.92	355AAV060080
CSPH*2412A**	0.98	0.93	355AAV060080
CSPH*3012A**	0.95	0.92	355AAV060080
CNPH*2417A**	0.98	0.93	355AAV060100
CNPH*3017A**	0.96	0.92	355AAV060100
CSPH*2412A**	0.98	0.92	355AAV060100
CSPH*3012A**	0.95	0.91	355AAV060100
CNPH*2417A**	0.98	0.94	355AAV060120
CNPH*3017A**	0.96	0.93	355AAV060120
CSPH*2412A**	0.98	0.93	355AAV060120
CSPH*3012A**	0.95	0.92	355AAV060120

See note on pg. 31

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
		223ANA030 – A Outdoor Section With FY4ANF030 Indoor Section																							
65	875	12.79	11.76	2.08	16.02	14.72	2.19	19.46	17.75	2.30	23.12	20.54	2.42	27.25	24.80	2.57	31.79	31.79	2.75	37.07	37.07	2.98	42.79	42.79	3.20
	1000	13.05	12.01	2.10	16.31	14.98	2.20	19.78	18.03	2.30	23.49	20.86	2.40	27.71	25.21	2.54	32.34	32.34	2.70	37.78	37.78	2.90	43.34	43.34	3.08
	1125	13.29	12.23	2.13	16.56	15.22	2.21	20.05	18.28	2.30	23.81	21.14	2.40	28.06	25.54	2.52	32.80	32.80	2.67	38.30	38.30	2.84	43.65	43.65	3.01
70	875	12.32	11.34	2.17	15.60	14.33	2.29	19.06	17.38	2.41	22.74	20.20	2.54	26.76	24.35	2.70	31.27	31.27	2.88	36.43	36.43	3.12	42.19	42.19	3.36
	1000	12.59	11.58	2.19	15.89	14.60	2.30	19.38	17.67	2.41	23.09	20.51	2.52	27.20	24.75	2.66	31.80	31.80	2.83	37.12	37.12	3.04	42.77	42.77	3.23
	1125	12.83	11.80	2.22	16.15	14.84	2.32	19.66	17.92	2.41	23.39	20.78	2.52	27.64	25.15	2.64	32.25	32.25	2.79	37.70	37.70	2.98	43.16	43.16	3.16
75	875	11.81	10.86	2.26	15.15	13.92	2.39	18.63	16.99	2.53	22.33	19.84	2.67	26.29	23.92	2.83	30.78	30.78	3.02	35.80	35.80	3.27	41.54	41.54	3.51
	1000	12.08	11.11	2.28	15.43	14.18	2.40	18.96	17.29	2.52	22.69	20.15	2.65	26.72	24.32	2.79	31.28	31.28	2.96	36.49	36.49	3.19	42.21	42.21	3.39
	1125	12.32	11.34	2.31	15.70	14.42	2.42	19.24	17.54	2.53	23.00	20.43	2.64	27.10	24.66	2.77	31.71	31.71	2.93	37.04	37.04	3.13	42.60	42.60	3.31

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF030	1.00	1.00	
FE4ANF002	0.97	0.95	
FE4ANF003	0.97	0.94	
FE4ANF005	0.97	0.88	
FF1ENP030	1.00	1.01	
FF1ENP036	1.01	1.00	
FV4BNF002	0.97	0.95	
FV4BNF003	0.97	0.94	
FV4BNF005	0.97	0.88	
FX4CN(B,F)036	0.99	0.95	
FY4ANF036	1.01	1.01	
CAP**3014A**	1.01	1.00	
CAP**3017A**	1.01	1.00	
CAP**3614A**	0.98	0.97	
CAP**3617A**	1.01	1.00	
CAP**3621A**	1.01	1.00	
CNPF*3618A**	1.01	1.00	
CNPH*3017A**	1.01	1.00	
CNPH*3617A**	1.01	1.00	
CNPV*3014A**	1.01	1.00	
CNPV*3017A**	1.01	1.00	
CNPV*3617A**	1.01	1.00	
CNPV*3621A**	1.01	1.00	
CSPH*3012A**	1.01	0.99	
CSPH*3612A**	1.01	0.97	
CAP**3014A**	0.97	0.98	315(A,J)AV036070
CAP**3614A**	0.94	0.94	315(A,J)AV036070
CNPH*3017A**	0.97	0.97	315(A,J)AV036070
CNPH*3617A**	0.97	0.97	315(A,J)AV036070
CNPV*3014A**	0.97	0.98	315(A,J)AV036070
CSPH*3012A**	0.97	0.97	315(A,J)AV036070
CSPH*3612A**	0.97	0.94	315(A,J)AV036070
CAP**3017A**	0.97	0.97	315(A,J)AV048090
CAP**3617A**	0.97	0.96	315(A,J)AV048090
CNPH*3017A**	0.97	0.97	315(A,J)AV048090
CNPH*3617A**	0.97	0.97	315(A,J)AV048090
CNPV*3017A**	0.97	0.97	315(A,J)AV048090
CNPV*3617A**	0.97	0.97	315(A,J)AV048090
CSPH*3012A**	0.97	0.96	315(A,J)AV048090
CSPH*3612A**	0.97	0.93	315(A,J)AV048090

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**3621A**	0.97	0.95	315(A,J)AV060110
CNPH*3017A**	0.97	0.96	315(A,J)AV060110
CNPH*3617A**	0.97	0.96	315(A,J)AV060110
CNPV*3621A**	0.97	0.96	315(A,J)AV060110
CSPH*3012A**	0.97	0.96	315(A,J)AV060110
CSPH*3612A**	0.97	0.93	315(A,J)AV060110
CNPH*3017A**	0.97	0.96	315(A,J)AV066135
CNPH*3617A**	0.97	0.96	315(A,J)AV066135
CSPH*3012A**	0.97	0.96	315(A,J)AV066135
CSPH*3612A**	0.97	0.93	315(A,J)AV066135
CNPH*3017A**	0.97	0.96	315(A,J)AV066155
CNPH*3617A**	0.97	0.96	315(A,J)AV066155
CSPH*3012A**	0.97	0.96	315(A,J)AV066155
CSPH*3612A**	0.97	0.92	315(A,J)AV066155
CNPH*3017A**	0.97	0.97	355AAV042040
CNPH*3617A**	0.97	0.97	355AAV042040
CSPH*3012A**	0.97	0.97	355AAV042040
CSPH*3612A**	0.97	0.94	355AAV042040
CAP**3017A**	0.97	0.98	355AAV042060
CAP**3617A**	0.97	0.97	355AAV042060
CNPH*3017A**	0.97	0.97	355AAV042060
CNPH*3617A**	0.97	0.97	355AAV042060
CNPV*3017A**	0.97	0.97	355AAV042060
CNPV*3617A**	0.97	0.97	355AAV042060
CSPH*3012A**	0.97	0.97	355AAV042060
CSPH*3612A**	0.97	0.97	355AAV042060
CAP**3621A**	0.97	0.94	355AAV042060
CAP**3621A**	0.97	0.96	355AAV042080
CNPH*3017A**	0.97	0.97	355AAV042080
CNPH*3617A**	0.97	0.97	355AAV042080
CNPV*3621A**	0.97	0.97	355AAV042080
CSPH*3012A**	0.97	0.97	355AAV042080
CSPH*3612A**	0.97	0.93	355AAV042080
CAP**3621A**	0.97	0.96	355AAV060080
CNPH*3017A**	0.97	0.97	355AAV060080
CNPH*3617A**	0.97	0.97	355AAV060080
CNPV*3621A**	0.97	0.97	355AAV060080
CSPH*3012A**	0.97	0.97	355AAV060080
CSPH*3612A**	0.97	0.93	355AAV060080
CAP**3621A**	0.97	0.96	355AAV060100
CNPH*3017A**	0.97	0.97	355AAV060100
CNPH*3617A**	0.97	0.97	355AAV060100
CNPV*3621A**	0.97	0.97	355AAV060100
CSPH*3012A**	0.97	0.96	355AAV060100
CSPH*3612A**	0.97	0.93	355AAV060100
CNPH*3017A**	0.97	0.97	355AAV060120
CNPH*3617A**	0.97	0.97	355AAV060120
CSPH*3012A**	0.97	0.97	355AAV060120
CSPH*3612A**	0.97	0.94	355AAV060120

See note on pg. 31

223A

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
		223ANA036-A Outdoor Section With FY4ANF042 Indoor Section																							
65	1050	14.42	13.27	2.31	18.07	16.60	2.40	21.93	19.99	2.50	26.06	23.15	2.60	30.80	28.03	2.74	35.94	35.94	2.86	40.65	40.65	2.99	45.56	45.56	3.15
	1200	14.73	13.55	2.34	18.39	16.90	2.43	22.28	20.32	2.51	26.48	23.52	2.60	31.28	28.47	2.72	36.09	36.09	2.82	40.59	40.59	2.93	45.17	45.17	3.06
	1350	15.01	13.81	2.38	18.68	17.17	2.46	22.60	20.61	2.53	26.84	23.84	2.62	31.71	28.85	2.73	36.12	36.12	2.80	40.35	40.35	2.90	44.12	44.12	3.00
70	1050	13.90	12.79	2.40	17.58	16.15	2.50	21.48	19.59	2.61	25.62	22.75	2.72	30.21	27.49	2.86	35.42	35.42	3.00	40.20	40.20	3.13	45.16	45.16	3.30
	1200	14.21	13.08	2.43	17.92	16.47	2.53	21.84	19.91	2.62	26.00	23.10	2.72	30.77	28.00	2.85	35.80	35.80	2.95	40.30	40.30	3.07	45.00	45.00	3.21
	1350	14.50	13.34	2.47	18.22	16.74	2.56	22.16	20.21	2.64	26.37	23.42	2.73	31.18	28.37	2.85	35.83	35.83	2.93	40.17	40.17	3.04	44.49	44.49	3.15
75	1050	13.33	12.27	2.49	17.07	15.69	2.61	21.00	19.15	2.72	25.17	22.35	2.84	29.67	27.00	2.98	34.85	34.85	3.14	39.73	39.73	3.28	44.72	44.72	3.45
	1200	13.65	12.55	2.53	17.42	16.01	2.63	21.37	19.49	2.73	25.56	22.70	2.84	30.16	27.44	2.97	35.37	35.37	3.09	39.94	39.94	3.22	44.67	44.67	3.36
	1350	13.93	12.82	2.57	17.72	16.28	2.66	21.71	19.79	2.75	25.92	23.02	2.85	30.58	27.82	2.97	35.60	35.60	3.07	39.93	39.93	3.18	44.35	44.35	3.31

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF042	1.00	1.00	
FE4ANF002	0.97	0.97	
FE4ANF003	0.96	0.96	
FE4ANF005	0.94	0.89	
FF1ENP036	0.99	1.02	
FV4BNF002	0.97	0.98	
FV4BNF003	0.96	0.96	
FV4BNF005	0.94	0.89	
FX4CN(B,F)036	0.98	0.97	
FX4CN(B,F)042	0.98	0.93	
FY4ANF036	0.98	1.04	
CAP**3614A**	0.97	1.01	
CAP**3617A**	0.99	1.02	
CAP**3621A**	0.99	1.02	
CAP**4221A**	1.00	1.01	
CAP**4224A**	1.00	1.01	
CNPF*3618A**	0.99	1.03	
CNPH*3617A**	0.99	1.03	
CNPH*4221A**	1.00	1.01	
CNPV*3617A**	0.99	1.03	
CNPV*3621A**	0.99	1.03	
CNPV*4221A**	1.00	1.01	
CSPH*3612A**	0.99	0.98	
CSPH*4212A**	1.00	0.97	
CAP**3614A**	0.94	0.97	315(A,J)AV036070
CNPH*3617A**	0.96	1.00	315(A,J)AV036070
CNPH*4221A**	0.97	0.97	315(A,J)AV036070
CSPH*3612A**	0.96	0.96	315(A,J)AV036070
CSPH*4212A**	0.97	0.95	315(A,J)AV036070
CAP**3617A**	0.96	0.98	315(A,J)AV048090
CNPH*3617A**	0.96	0.99	315(A,J)AV048090
CNPH*4221A**	0.96	0.96	315(A,J)AV048090
CNPV*3617A**	0.96	0.99	315(A,J)AV048090
CSPH*3612A**	0.96	0.95	315(A,J)AV048090
CSPH*4212A**	0.97	0.93	315(A,J)AV048090
CAP**3621A**	0.96	0.98	315(A,J)AV060110
CAP**4221A**	0.97	0.97	315(A,J)AV060110
CNPH*3617A**	0.96	0.99	315(A,J)AV060110
CNPH*4221A**	0.96	0.95	315(A,J)AV060110
CNPV*3621A**	0.96	0.99	315(A,J)AV060110
CNPV*4221A**	0.96	0.95	315(A,J)AV060110
CSPH*3612A**	0.96	0.94	315(A,J)AV060110
CSPH*4212A**	0.97	0.93	315(A,J)AV060110
CAP**4224A**	0.96	0.96	315(A,J)AV066135
CNPH*3617A**	0.96	0.99	315(A,J)AV066135
CNPH*4221A**	0.96	0.95	315(A,J)AV066135
CSPH*3612A**	0.96	0.94	315(A,J)AV066135
CSPH*4212A**	0.97	0.93	315(A,J)AV066135
CAP**4224A**	0.96	0.95	315(A,J)AV066155
CNPH*3617A**	0.96	0.98	315(A,J)AV066155
CNPH*4221A**	0.96	0.94	315(A,J)AV066155
CSPH*3612A**	0.96	0.94	315(A,J)AV066155
CSPH*4212A**	0.97	0.92	315(A,J)AV066155

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**4224A**	0.97	0.98	355AAV042040
CNPH*3617A**	0.97	1.01	355AAV042040
CNPH*4221A**	0.97	0.97	355AAV042040
CSPH*3612A**	0.96	0.96	355AAV042040
CSPH*4212A**	0.97	0.95	355AAV042040
CAP**3617A**	0.96	0.99	355AAV042060
CNPH*3617A**	0.96	1.00	355AAV042060
CNPH*4221A**	0.96	0.96	355AAV042060
CNPV*3617A**	0.96	1.00	355AAV042060
CSPH*3612A**	0.96	0.95	355AAV042060
CSPH*4212A**	0.97	0.94	355AAV042060
CAP**3621A**	0.96	1.00	355AAV042080
CAP**4221A**	0.97	0.99	355AAV042080
CNPH*3617A**	0.97	1.01	355AAV042080
CNPH*4221A**	0.96	0.97	355AAV042080
CNPV*3621A**	0.96	1.01	355AAV042080
CNPV*4221A**	0.96	0.97	355AAV042080
CSPH*3612A**	0.96	0.97	355AAV042080
CSPH*4212A**	0.97	0.95	355AAV042080
CAP**3621A**	0.96	0.99	355AAV060080
CAP**4221A**	0.97	0.98	355AAV060080
CNPH*3617A**	0.96	1.00	355AAV060080
CNPH*4221A**	0.97	0.97	355AAV060080
CNPV*3621A**	0.96	1.00	355AAV060080
CNPV*4221A**	0.97	0.97	355AAV060080
CSPH*3612A**	0.96	0.95	355AAV060080
CSPH*4212A**	0.97	0.94	355AAV060080
CAP**3621A**	0.96	0.98	355AAV060100
CAP**4221A**	0.97	0.98	355AAV060100
CNPH*3617A**	0.96	0.99	355AAV060100
CNPH*4221A**	0.96	0.96	355AAV060100
CNPV*3621A**	0.96	0.99	355AAV060100
CNPV*4221A**	0.96	0.96	355AAV060100
CSPH*3612A**	0.96	0.95	355AAV060100
CSPH*4212A**	0.97	0.94	355AAV060100
CAP**4224A**	0.96	0.97	355AAV060120
CNPH*3617A**	0.96	1.00	355AAV060120
CNPH*4221A**	0.96	0.96	355AAV060120
CSPH*3612A**	0.96	0.95	355AAV060120
CSPH*4212A**	0.97	0.94	355AAV060120

See note on pg. 31

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
223ANA042-A Outdoor Section With FY4ANF042 Indoor Section																									
65	1225	17.53	16.13	2.72	21.61	19.86	2.83	26.00	23.71	2.95	30.74	27.30	3.08	36.21	32.95	3.26	42.09	42.09	3.43	47.60	47.60	3.60	53.07	53.07	3.79
	1400	17.88	16.45	2.75	21.99	20.20	2.85	26.39	24.06	2.96	31.20	27.71	3.10	36.75	33.44	3.25	42.44	42.44	3.38	47.57	47.57	3.53	52.73	52.73	3.69
	1575	18.21	16.75	2.80	22.32	20.51	2.89	26.75	24.39	2.99	31.61	28.08	3.10	37.22	33.87	3.25	42.50	42.50	3.36	47.37	47.37	3.49	52.15	52.15	3.63
70	1225	17.06	15.69	2.84	21.17	19.45	2.96	25.58	23.32	3.09	30.29	26.90	3.23	35.68	32.47	3.42	41.58	41.58	3.60	47.11	47.11	3.77	52.62	52.62	3.98
	1400	17.40	16.01	2.88	21.52	19.78	2.99	25.97	23.68	3.10	30.69	27.26	3.23	36.21	32.96	3.40	42.00	42.00	3.55	47.24	47.24	3.70	52.50	52.50	3.87
	1575	17.74	16.32	2.92	21.88	20.11	3.02	26.32	24.00	3.12	31.11	27.63	3.24	36.68	33.38	3.40	42.19	42.19	3.52	47.15	47.15	3.66	52.04	52.04	3.81
75	1225	16.54	15.21	2.96	20.69	19.02	3.09	25.13	22.91	3.23	29.85	26.51	3.39	35.03	31.88	3.57	41.04	41.04	3.78	46.60	46.60	3.95	52.13	52.13	4.17
	1400	16.89	15.54	3.00	21.08	19.37	3.12	25.53	23.28	3.24	30.29	26.90	3.38	35.58	32.38	3.55	41.57	41.57	3.72	46.84	46.84	3.88	52.10	52.10	4.06
	1575	17.21	15.83	3.05	21.41	19.67	3.16	25.90	23.62	3.27	30.67	27.24	3.40	36.15	32.90	3.56	41.81	41.81	3.69	46.84	46.84	3.84	51.83	51.83	3.99

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF042	1.00	1.00	
FE4ANB006	0.94	0.90	
FE4ANF003	0.98	1.01	
FE4ANF005	0.96	0.93	
FV4BNB006	0.94	0.90	
FV4BNF003	0.98	1.01	
FV4BNF005	0.96	0.93	
FX4CN(B,F)042	1.00	0.96	
FX4CN(B,F)048	0.95	0.89	
FY4ANF048	0.98	0.97	
CAP**4221A**	1.01	1.02	
CAP**4224A**	1.01	1.02	
CAP**4817A**	0.95	0.93	
CAP**4821A**	1.00	0.98	
CAP**4824A**	1.00	0.98	
CNPF*4818A**	1.00	0.99	
CNPH*4221A**	1.01	1.02	
CNPH*4821A**	1.00	0.97	
CNPV*4221A**	1.01	1.02	
CNPV*4821A**	1.00	0.97	
CNPV*4824A**	1.00	0.97	
CSPH*4212A**	1.01	0.98	
CSPH*4812A**	0.98	0.94	
CNPH*4221A**	0.99	1.01	315(A,J)AV036070
CNPH*4821A**	0.98	0.96	315(A,J)AV036070
CSPH*4212A**	0.99	0.97	315(A,J)AV036070
CSPH*4812A**	0.98	0.95	315(A,J)AV036070
CAP**4817A**	0.94	0.91	315(A,J)AV048090
CNPH*4221A**	0.98	0.98	315(A,J)AV048090
CNPH*4821A**	0.98	0.94	315(A,J)AV048090
CSPH*4212A**	0.98	0.95	315(A,J)AV048090
CSPH*4812A**	0.98	0.93	315(A,J)AV048090
CAP**4221A**	0.98	0.99	315(A,J)AV060110
CAP**4821A**	0.98	0.94	315(A,J)AV060110
CNPH*4221A**	0.98	0.97	315(A,J)AV060110
CNPH*4821A**	0.98	0.94	315(A,J)AV060110
CNPV*4221A**	0.98	0.97	315(A,J)AV060110
CNPV*4821A**	0.98	0.94	315(A,J)AV060110
CSPH*4212A**	0.98	0.94	315(A,J)AV060110
CSPH*4812A**	0.98	0.93	315(A,J)AV060110
CAP**4224A**	0.98	0.98	315(A,J)AV066135
CAP**4824A**	0.98	0.93	315(A,J)AV066135
CNPH*4221A**	0.98	0.97	315(A,J)AV066135
CNPH*4821A**	0.98	0.93	315(A,J)AV066135
CNPV*4824A**	0.98	0.93	315(A,J)AV066135
CSPH*4212A**	0.98	0.93	315(A,J)AV066135
CSPH*4812A**	0.98	0.92	315(A,J)AV066135
CAP**4224A**	0.98	0.98	315(A,J)AV066155
CAP**4824A**	0.98	0.93	315(A,J)AV066155
CNPH*4221A**	0.98	0.97	315(A,J)AV066155
CNPH*4821A**	0.98	0.93	315(A,J)AV066155
CNPV*4824A**	0.98	0.93	315(A,J)AV066155
CSPH*4212A**	0.98	0.94	315(A,J)AV066155
CSPH*4812A**	0.98	0.93	315(A,J)AV066155

See note on pg. 31

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**4224A**	0.98	1.01	355AAV042040
CAP**4824A**	0.98	0.96	355AAV042040
CNPH*4221A**	0.98	0.99	355AAV042040
CNPH*4821A**	0.99	0.97	355AAV042040
CNPV*4824A**	0.98	0.96	355AAV042040
CSPH*4212A**	0.99	0.97	355AAV042040
CSPH*4812A**	0.99	0.96	355AAV042040
CAP**4817A**	0.94	0.91	355AAV042060
CNPH*4221A**	0.98	0.99	355AAV042060
CNPH*4821A**	0.99	0.96	355AAV042060
CSPH*4212A**	0.99	0.97	355AAV042060
CSPH*4812A**	0.98	0.94	355AAV042060
CAP**4221A**	0.99	1.02	355AAV042080
CAP**4821A**	0.99	0.97	355AAV042080
CNPH*4221A**	0.98	0.99	355AAV042080
CNPH*4821A**	0.99	0.97	355AAV042080
CNPV*4221A**	0.98	0.99	355AAV042080
CNPV*4821A**	0.99	0.97	355AAV042080
CSPH*4212A**	0.99	0.98	355AAV042080
CSPH*4812A**	0.99	0.97	355AAV042080
CAP**4221A**	0.99	1.01	355AAV060080
CAP**4821A**	0.98	0.95	355AAV060080
CNPH*4221A**	0.98	0.99	355AAV060080
CNPH*4821A**	0.98	0.95	355AAV060080
CNPV*4221A**	0.98	0.99	355AAV060080
CNPV*4821A**	0.98	0.95	355AAV060080
CSPH*4212A**	0.99	0.97	355AAV060080
CSPH*4812A**	0.98	0.94	355AAV060080
CAP**4221A**	0.98	0.99	355AAV060100
CAP**4821A**	0.98	0.95	355AAV060100
CNPH*4221A**	0.98	0.98	355AAV060100
CNPH*4821A**	0.98	0.95	355AAV060100
CNPV*4221A**	0.98	0.98	355AAV060100
CNPV*4821A**	0.98	0.95	355AAV060100
CSPH*4212A**	0.98	0.95	355AAV060100
CSPH*4812A**	0.98	0.94	355AAV060100
CAP**4224A**	0.98	0.99	355AAV060120
CAP**4824A**	0.98	0.95	355AAV060120
CNPH*4221A**	0.98	0.98	355AAV060120
CNPH*4821A**	0.98	0.95	355AAV060120
CNPV*4824A**	0.98	0.95	355AAV060120
CSPH*4212A**	0.98	0.95	355AAV060120
CSPH*4812A**	0.98	0.94	355AAV060120

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HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†	Capacity MBtuh		Total Sys-tem KW†
EDB	CFM	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*	Total	In-teg*		
		223ANA048 – A Outdoor Section With FY4ANF048 Indoor Section																							
65	1400	21.02	19.34	3.15	25.66	23.58	3.27	30.63	27.92	3.39	36.31	32.25	3.55	42.60	38.76	3.70	48.84	48.84	3.87	54.32	54.32	4.05	56.50	56.50	4.10
	1600	21.41	19.70	3.20	26.07	23.95	3.30	31.08	28.34	3.41	36.82	32.70	3.55	43.01	39.14	3.68	48.80	48.80	3.84	51.13	51.13	3.89	52.63	52.63	3.91
	1800	21.77	20.03	3.25	26.44	24.30	3.35	31.50	28.72	3.45	37.27	33.10	3.58	43.11	39.23	3.69	47.24	47.24	3.79	48.26	48.26	3.80	49.37	49.37	3.81
70	1400	20.52	18.88	3.29	25.21	23.16	3.42	30.19	27.53	3.55	35.74	31.74	3.71	41.99	38.21	3.90	48.41	48.41	4.06	54.98	54.98	4.29	57.35	57.35	4.34
	1600	20.92	19.24	3.33	25.62	23.55	3.45	30.62	27.92	3.57	36.31	32.25	3.72	42.58	38.75	3.85	48.50	48.50	4.02	52.26	52.26	4.12	53.93	53.93	4.15
	1800	21.28	19.58	3.39	26.01	23.90	3.49	31.03	28.29	3.60	36.75	32.64	3.74	42.83	38.98	3.86	48.16	48.16	4.01	49.40	49.40	4.02	50.74	50.74	4.04
75	1400	19.98	18.39	3.42	24.76	22.75	3.57	29.75	27.12	3.72	35.19	31.25	3.88	41.42	37.69	4.08	48.00	48.00	4.26	54.51	54.51	4.49	58.18	58.18	4.60
	1600	20.37	18.74	3.47	25.14	23.10	3.60	30.19	27.53	3.73	35.69	31.70	3.88	42.01	38.22	4.04	48.14	48.14	4.21	53.06	53.06	4.36	54.85	54.85	4.40
	1800	20.76	19.10	3.53	25.53	23.46	3.64	30.60	27.90	3.77	36.15	32.11	3.90	42.46	38.64	4.04	48.15	48.15	4.20	50.73	50.73	4.26	52.17	52.17	4.28

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANF048	1.00	1.00	
FE4ANB006	0.95	0.89	
FE4ANF005	0.98	0.94	
FV4BNB006	0.95	0.89	
FV4BNF005	0.98	0.94	
FX4CN(B,F)048	0.98	0.94	
FX4CN(B,F)060	0.91	0.87	
FY4ANB060	0.93	0.95	
CAP**4817A**	0.99	0.97	
CAP**4821A**	1.01	0.99	
CAP**4824A**	1.01	0.99	
CAP**6021A**	0.92	0.94	
CAP**6024A**	0.93	0.95	
CNPF*4818A**	1.00	1.03	
CNPH*4821A**	1.01	0.99	
CNPH*6024A**	0.93	0.91	
CNPV*4821A**	1.01	0.99	
CNPV*4824A**	1.01	0.99	
CNPV*6024A**	0.93	0.91	
CSPH*4812A**	1.01	0.98	
CSPH*6012A**	0.93	0.91	
CAP**4817A**	0.98	0.96	315(A,J)AV048090
CNPH*4821A**	0.99	0.98	315(A,J)AV048090
CNPH*6024A**	0.97	0.95	315(A,J)AV048090
CSPH*4812A**	0.99	0.97	315(A,J)AV048090
CSPH*6012A**	0.97	0.94	315(A,J)AV048090
CAP**4821A**	0.99	0.97	315(A,J)AV060110
CAP**6021A**	0.96	0.94	315(A,J)AV060110
CNPH*4821A**	0.99	0.98	315(A,J)AV060110
CNPH*6024A**	0.97	0.94	315(A,J)AV060110
CNPV*4821A**	0.99	0.98	315(A,J)AV060110
CSPH*4812A**	0.99	0.96	315(A,J)AV060110
CSPH*6012A**	0.96	0.92	315(A,J)AV060110
CAP**4824A**	0.99	0.96	315(A,J)AV066135
CAP**6024A**	0.97	0.94	315(A,J)AV066135
CNPH*4821A**	0.99	0.97	315(A,J)AV066135
CNPH*6024A**	0.97	0.94	315(A,J)AV066135
CNPV*4824A**	0.99	0.97	315(A,J)AV066135
CNPV*6024A**	0.97	0.94	315(A,J)AV066135
CSPH*4812A**	0.99	0.96	315(A,J)AV066135
CSPH*6012A**	0.96	0.91	315(A,J)AV066135
CAP**4824A**	0.99	0.96	315(A,J)AV066155
CAP**6024A**	0.96	0.93	315(A,J)AV066155
CNPH*4821A**	0.99	0.96	315(A,J)AV066155
CNPH*6024A**	0.96	0.92	315(A,J)AV066155
CNPV*4824A**	0.99	0.96	315(A,J)AV066155
CNPV*6024A**	0.96	0.92	315(A,J)AV066155
CSPH*4812A**	0.99	0.95	315(A,J)AV066155
CSPH*6012A**	0.96	0.91	315(A,J)AV066155

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**4821A**	1.00	0.99	355AAV060080
CAP**6021A**	0.97	0.96	355AAV060080
CNPH*4821A**	1.00	1.00	355AAV060080
CNPH*6024A**	0.97	0.95	355AAV060080
CNPV*4821A**	1.00	1.00	355AAV060080
CSPH*4812A**	1.00	0.99	355AAV060080
CSPH*6012A**	0.97	0.94	355AAV060080
CAP**4821A**	0.99	0.98	355AAV060100
CAP**6021A**	0.97	0.96	355AAV060100
CNPH*4821A**	0.99	0.98	355AAV060100
CNPH*6024A**	0.97	0.95	355AAV060100
CNPV*4821A**	0.99	0.98	355AAV060100
CSPH*4812A**	0.99	0.97	355AAV060100
CSPH*6012A**	0.97	0.94	355AAV060100
CAP**4824A**	0.99	0.98	355AAV060120
CAP**6024A**	0.97	0.96	355AAV060120
CNPH*4821A**	0.99	0.99	355AAV060120
CNPH*6024A**	0.97	0.95	355AAV060120
CNPV*4824A**	0.99	0.99	355AAV060120
CNPV*6024A**	0.97	0.95	355AAV060120
CSPH*4812A**	0.99	0.97	355AAV060120
CSPH*6012A**	0.97	0.94	355AAV060120

See note on pg. 31

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HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES deg F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†	Capacity MBtuh		Total System KW†
Total	In-teg*	Total	In-teg*		Total	In-teg*		Total	In-teg*		Total	In-teg*		Total	In-teg*		Total	In-teg*		Total	In-teg*		Total	In-teg*	
223ANA060—A Outdoor Section With FY4ANF060 Indoor Section																									
65	1750	25.07	23.07	3.86	30.90	28.40	4.00	37.17	33.89	4.16	43.81	38.91	4.34	51.11	46.51	4.54	59.85	59.85	4.79	68.95	68.95	5.02	78.00	78.00	5.31
	2000	25.62	23.57	3.93	31.49	28.94	4.06	37.79	34.45	4.20	44.47	39.50	4.36	51.96	47.28	4.54	60.88	60.88	4.74	69.47	69.47	4.95	78.33	78.33	5.20
	2250	26.13	24.04	4.01	32.03	29.44	4.13	38.34	34.96	4.26	45.07	40.03	4.40	52.72	47.97	4.57	61.49	61.49	4.73	69.75	69.75	4.92	77.76	77.76	5.13
70	1750	24.34	22.40	4.03	30.22	27.77	4.19	36.54	33.32	4.36	43.21	38.37	4.55	50.41	45.87	4.76	58.98	58.98	5.03	68.13	68.13	5.26	77.06	77.06	5.56
	2000	24.89	22.90	4.10	30.80	28.30	4.24	37.17	33.89	4.40	43.87	38.96	4.57	51.17	46.57	4.75	60.00	60.00	4.97	68.71	68.71	5.18	77.50	77.50	5.44
	2250	25.40	23.37	4.18	31.34	28.80	4.31	37.72	34.39	4.45	44.46	39.49	4.60	51.85	47.19	4.77	60.72	60.72	4.95	69.06	69.06	5.15	77.77	77.77	5.39
75	1750	23.57	21.68	4.21	29.50	27.11	4.38	35.86	32.70	4.57	42.56	37.80	4.77	49.72	45.25	4.99	57.81	57.81	5.26	67.28	67.28	5.51	76.15	76.15	5.82
	2000	24.12	22.19	4.29	30.09	27.65	4.44	36.50	33.28	4.60	43.24	38.40	4.78	50.48	45.93	4.98	58.94	58.94	5.21	67.93	67.93	5.43	76.69	76.69	5.70
	2250	24.63	22.66	4.37	30.63	28.15	4.51	37.07	33.80	4.66	43.83	38.93	4.82	51.15	46.54	5.00	59.80	59.80	5.19	68.35	68.35	5.40	76.95	76.95	5.64

Heating Indoor Model	Capacity	Power	Furnace Model
*FY4ANB060	1.00	1.00	
FE4ANB006	0.98	0.95	
FV4BNB006	0.98	0.94	
FX4CN(B,F)060	0.98	0.94	
CAP**6021A**	0.97	1.00	
CAP**6024A**	0.98	0.99	
CNPH*6024A**	0.98	0.99	
CNPV*6024A**	0.98	0.99	
CSPH*6012A**	0.98	0.98	

Heating Indoor Model	Capacity	Power	Furnace Model
CAP**6021A**	0.94	0.98	315(A,J)AV060110
CNPH*6024A**	0.96	1.00	315(A,J)AV060110
CSPH*6012A**	0.96	0.98	315(A,J)AV060110
CAP**6024A**	0.96	0.99	315(A,J)AV066135
CNPH*6024A**	0.95	0.99	315(A,J)AV066135
CNPV*6024A**	0.95	0.99	315(A,J)AV066135
CSPH*6012A**	0.96	0.98	315(A,J)AV066135
CAP**6024A**	0.96	0.98	315(A,J)AV066155
CNPH*6024A**	0.95	0.98	315(A,J)AV066155
CNPV*6024A**	0.95	0.98	315(A,J)AV066155
CSPH*6012A**	0.96	0.97	315(A,J)AV066155

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

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GUIDE SPECIFICATIONS

GENERAL

System Description

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

Quality Assurance

- Unit will be rated in accordance with the latest edition of ARI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest ARI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

- Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A), and special features required prior to field start-up.

Unit Cabinet

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

Fans

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

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

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1-1/2 TO 5 NOMINAL TONS

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

Compressor

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

Condenser Coil

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

Refrigeration Components

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

Electrical Requirements

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

Special Features

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