

**24APA3  
Performance™ Series Air Conditioner  
with Puron® Refrigerant  
Sizes 18 to 60  
1 – 1/2 to 5 Nominal Tons**



Turn to the Experts™

## Product Data



Performance  
SERIES

Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24APA has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

As an Energy Star® Partner, Carrier Corporation has determined that this product meets the Energy Star® guidelines for energy efficiency. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

### INDUSTRY LEADING FEATURES / BENEFITS

#### Energy Efficiency

- 13 SEER/11.0-11.5 EER (Nominal)

#### New Aesthetic Design

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

#### Extra Quiet Operation

- Silencer System II™ for sound as low as 68 dBA
  - Quiet mount split post compressor grommets
  - Exclusive Silencer Top design
  - Forward-swept condenser fan blade
  - 8-pole PSC ball bearing condenser fan motor
  - Compressor sound hood

#### Reliability, Quality and Toughness

- Scroll compressor
- Field-installed 16 cu. in. filter drier
- Back-seating service valves
- High pressure switch
- Loss of charge switch
- Internal pressure relief valve
- Internal thermal overload

#### Controls and Diagnostics

- Infinity™ control compatible or thermostat
- Utility Interface Connection
- Up to 14 point diagnostic capability?

#### Applications

- Longline - up to 250 ft. total equivalent length
- Low ambient (down to 0°F) with Infinity™ System

#### Limited Warranty

- 10-year limited warranty on compressor
- Standard 5-year limited warranty on all parts

# MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	4	A	P	A	3	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series		
24=AC	A=RES AC	P=Performance	A=Puron	3=13 SEER		A=Standard	0=Not Defined	0=Not Defined	3=208/230-1	0, 1, 2...		

24APAS



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

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

## STANDARD FEATURES

Feature	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
Infinity Control Compatible	X	X	X	X	X	X	X
Scroll Compressor	X	X	X	X	X	X	X
Silencer System II™ Design	X	X	X	X	X	X	X
WeatherArmor Ultra™ Cabinet	X	X	X	X	X	X	X
Field Installed 16 cu. in. Filter Drier	X	X	X	X	X	X	X
Back Seating Service Valves	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X
Low Pressure Switch	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 to 0° F w/Infinity™ Complete System	X	X	X	X	X	X	X
Up to 14 Point Diagnostic Check –Points	X	X	X	X	X	X	X
Utility Interface Connections	X	X	X	X	X	X	X

# PHYSICAL DATA

UNIT SIZE – VOLTAGE, SERIES	18–30	24–30	30–30	36–30	42–30	48–30	60–30
Operating Weight (lb)	166	168	185	231	259	267	287
Shipping Weight (lb)	197	199	218	263	295	303	323
Compressor Type	Scroll						
REFRIGERANT	Puron® (R-410A)						
Control	TXV (Puron® Hard Shutoff)						
Charge (lb)	3.9	4.25	5.75	5.85	7.13	8.4	9.35
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty. (CFM)	2140	2140	2800	2800	3270	3670	3670
Motor HP	1/12	1/12	1/5	1/5	1/5	1/4	1/4
Motor RPM	800	800	800	800	800	800	800
COND COIL							
Face Area (Sq. ft.)	11.26	11.26	14.47	16.08	22.36	22.36	18.30
Fins per In.	20	25	25	25	25	25	20
Rows	1	1	1	1	1	1	2
Circuits	3	3	4	4	5	5	5
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 (250 ft. Total Equivalent Length), consult the Long-Line Guideline.  
 Note: See unit Installation Instruction for proper installation.

24A PA3

## VAPOR LINE SIZING AND COOLING CAPACITY LOSS PURON 1-STAGE AIR CONDITIONER 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 Liquid Line Diameter OD (in.)	Acceptable Vapor Line Diameters OD (in.)	Cooling Capacity Loss (%)										
			Standard Application			Long Line Application Requires Accessories							
			25	50	80	80+	100	125	150	175	200	225	250
18000 1 Stage Puron AC	3/8	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 AC	3/8	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
		7/8	0	0	0	0	0	0	0	0	0	0	1
30000 1 Stage Puron AC	3/8	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 AC	3/8	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 AC	3/8	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
		1 1/8	0	0	0	0	0	0	0	0	0	0	1
48000 1 Stage Puron AC	3/8	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
		1 1/8	0	0	0	0	0	0	0	0	1	1	1
60000 1 Stage Puron AC	3/8	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

# ACCESSORIES

KIT NUMBER	KIT NAME	18-30	24-30	30-30	36-30	42-30	48-30	60-30
KAACH1201AAA	CRANKCASE HTR					X	X	X
KAACH1401AAA	CRANKCASE HTR	X	X	X	X			
KSACY0101AAA	CYCLE PROTECTOR	S	S	S	S	S	S	S
KAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X	X	X	X
KSAS1701AAA	HARD START (CAP/RELAY)	X	X	X	X	X	X	X
KSALA0301410	LOW AMBIENT PRESSURE SWITCH	X	X	X	X	X	X	X
KSALA0601AAA	MOTORMASTER 230V	X	X	X	X	X	X	X
KAACS0201PTC	PTC START ASSIST	X	X	X	X	X	X	X
KAALS0201LLS	SOLENOID VALVE	X	X	X	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X	X	X	X
KAATD0101TDR	TIME DELAY	X	X	X	X	X	X	X
KSATX0201PUR	TXV (HSO)	X	X	X				
KSATX0301PUR	TXV (HSO)				X	X		
KSATX0401PUR	TXV (HSO)						X	
KSATX0501PUR	TXV (HSO)							X
KAAWS0101AAA	WINTER START	X	X	X	X	X	X	X

X = Accessory, S = Standard

24APAS

THERMOSTAT / SUBBASE PKG.	DESCRIPTION
TSTATCCPRH01-B	Thermostat Control – Programmable / Non-Programmable Thermostat with Humidity control
TSTATCCPAC01-B	Thermostat – Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCNAC01-C	Thermostat – Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCBAC01-B	Builder's Thermostat – Manual Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCSEN01-B	Outdoor Air Temperature Sensor
TSTATXXBBP01	Backplate for Builder's Thermostat
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXBP01	Backplate for Programmable Thermostat
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wires) – 10 Pack

# 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	No	No	No
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 or Hard Shutoff TXV	No	See Longline Application Guideline	No
Ball Bearing Fan Motor	Yes†	No	No
Winter Start Control	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.

‡ Use only when low pressure switch is used.

## Accessory Description and Usage (Listed Alphabetically)

### 1. Ball-Bearing Fan Motor

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

Usage Guideline:

Required on all units when using MotorMaster®

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

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

Usage Guideline:

Required for reciprocating compressors in the following applications:

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

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

- Long line
- Low ambient cooling

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

### 3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

### 4. Crankcase Heater

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

Usage Guideline:

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

### 5. Cycle Protector

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

### 6. Evaporator Freeze Thermostat

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

Usage Guideline:

Required when low ambient kit has been added.

### 7. 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).

### 8. 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.

### 9. Outdoor Air Temperature Sensor

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

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

## Accessory Description and Usage (Listed Alphabetically) (Continued)

### 10. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by up to 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.

### 11. Support Feet

Four stick-on plastic feet that raise the unit 4 in. above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

For improved sound ratings.

### 12. Thermostatic Expansion Valve (TXV)

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

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

**NOTE:** When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist Capacitor and Relay is required.

Usage Guideline:

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

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

### 13. 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.

### 14. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation.

## ELECTRICAL DATA

UNIT SIZE– VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE <sup>†</sup>	MIN WIRE SIZE <sup>†</sup>	MAX LENGTH (FT) <sup>‡</sup>	MAX LENGTH (FT) <sup>‡</sup>	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA			FLA	60° C	75° C	60° C	
18–30	208/230/1	253	187	48.0	9.0	0.5	11.7	14	14	67	64	20
24–30				58.3	12.8	0.5	16.5	14	14	48	45	25
30–30				73.0	14.1	1.1	18.7	14	14	42	40	30
36–30				79.0	16.7	1.1	21.9	12	12	57	54	35
42–30				109.0	19.9	1.1	25.9	10	10	77	73	40
48–30				117.0	21.8	1.3	28.5	10	10	70	67	45
60–30				134.0	26.3	1.3	34.2	8	8	91	86	50

\* 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–VOLTAGE, SERIES	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18–30	68	51	56.5	58.5	56	54	46	41
24–30	68	52.5	51.5	54.5	57	55	49	42
30–30	69	52	57	56.5	59.5	53.5	45.5	42
36–30	69	50	55	57	58	55	48.5	43
42–30	72	58.5	62	61.5	61.5	56.5	51	49.5
48–30	73	62	58	57.5	67	57.5	51.5	47.5
60–30	73	58	60	60.5	63	57.5	51.5	47

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE–VOLTAGE, SERIES	REQUIRED SUBCOOLING (F)
18–30	10
24–30	13
30–30	17
36–30	12
42–30	12
48–30	13
60–30	12

**24APA3**

**DIMENSIONS**

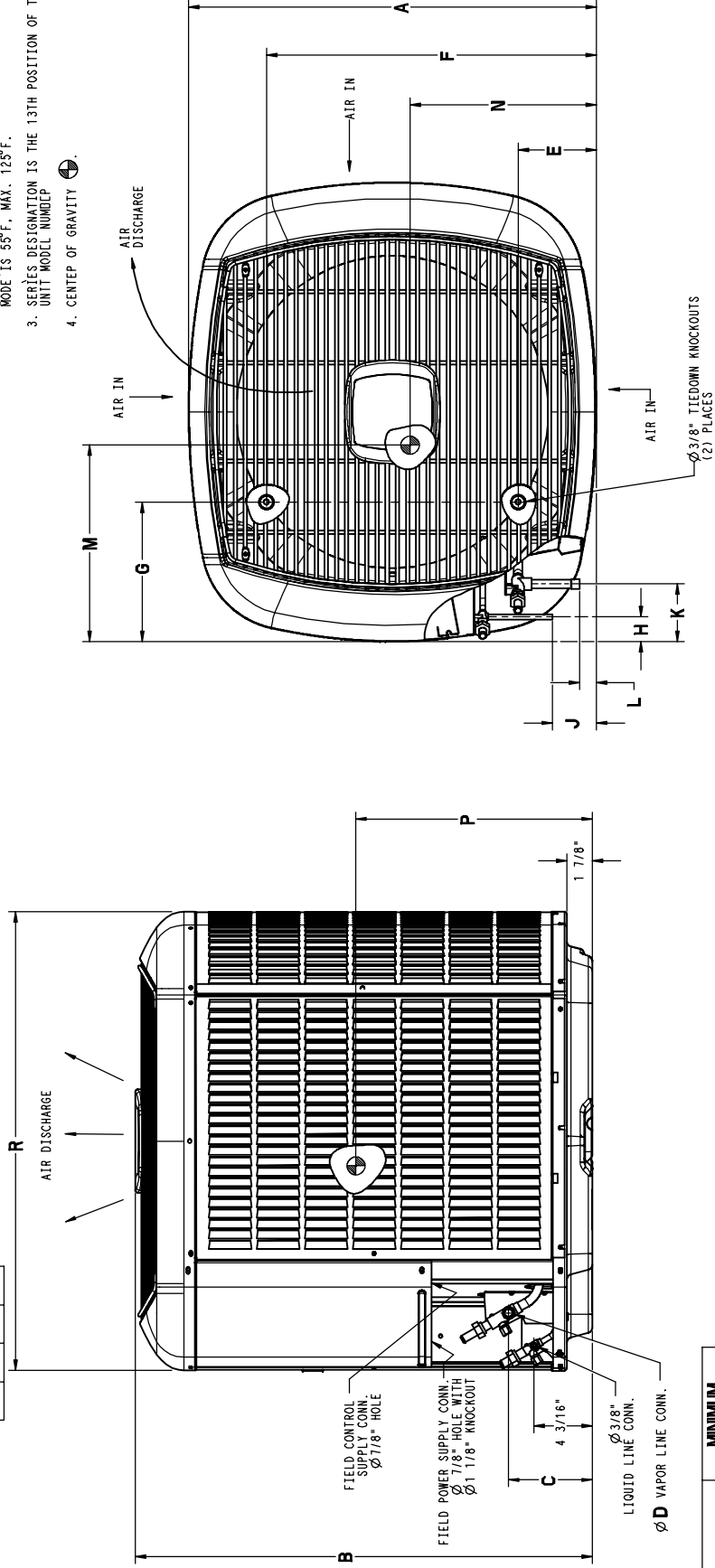
UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	OPERATING WEIGHT	SHIPPING WEIGHT	SHIPPING DIMENSIONS (L x W x H)
24APA318	0	X 0 0 0	29 1/4"	29 1/2"	6 1/16"	5/8"	5 5/8"	23 3/4"	10 1/16"	1 3/4"	3 3/16"	4 3/16"	1 1/8"	15 1/2"	13"	13 3/4"	33"	166#	197#	34 1/8" X 30 1/2" X 34 1/16"
24APA324	0	X 0 0 0	29 1/4"	29 1/2"	6 1/16"	5/8"	5 5/8"	23 3/4"	10 1/16"	1 3/4"	3 3/16"	4 3/16"	1 1/8"	16"	13"	14"	33"	166#	199#	34 1/8" X 30 1/2" X 34 1/16"
24APA330	0	X 0 0 0	29 1/4"	36 5/16"	6 5/16"	3/4"	5 5/8"	23 3/4"	10 1/16"	1 3/4"	3 3/16"	4"	1 1/8"	17"	14 1/2"	16"	33"	185#	218#	34 1/8" X 30 1/2" X 40 7/8"
24APA336	0	X 0 0 0	29 1/4"	39 3/4"	6 5/16"	3/4"	5 5/8"	23 3/4"	10 1/16"	1 3/4"	3 3/16"	4"	1 1/8"	16"	14 1/2"	19"	33"	231#	263#	34 1/8" X 30 1/2" X 44 1/4"
24APA342	0	X 0 0 0	35 1/2"	43 7/8"	6 1/4"	7/8"	6 13/16"	28 3/4"	11 5/8"	1 3/4"	3 3/16"	4 1/16"	1 1/8"	21"	16 1/2"	18 3/4"	40"	259#	295#	41 1/8" X 36 5/8" X 47 11/16"
24APA348	0	X 0 0 0	35 1/2"	43 7/8"	6 1/4"	7/8"	6 13/16"	28 3/4"	11 5/8"	1 3/4"	3 3/16"	4 1/16"	1 1/8"	19 1/2"	18 1/2"	20"	40"	267#	303#	41 1/8" X 36 5/8" X 47 11/16"
24APA360	0	X 0 0 0	35 1/2"	37 1/8"	6 1/4"	7/8"	6 13/16"	28 3/4"	11 5/8"	1 3/4"	3 3/16"	4 1/16"	1 1/8"	22"	16 1/4"	19 1/4"	40"	287#	323#	41 1/8" X 36 5/8" X 40 7/8"

X = YES  
0 = NO

208-230-160	230-160	208/230-3-60	460-3-60
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**NOTES:**

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F., MAX. 125°F.
3. SERIES DESIGNATION IS THE 13TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTEP OF GRAVITY



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18, 24, 30, 36	29 1/2" X 33"
42, 48, 60	36 1/2" X 40"

# COMBINATION RATINGS

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
18–30	*CAP**1814A**	17,500	TXV			11.00	
	CAP**1814A**	17,200	TDR&TXV	14.00	13.00	11.50	58CV(A,X)070–12
	CAP**2414A**	17,500	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CAP**2414A**	17,700	TXV		13.00	11.00	
	CAP**2417A**	17,600	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CAP**2417A**	17,600	TDR&TXV	14.50		11.70	58MVB060–14
	CAP**2417A**	17,700	TXV		13.00	11.00	
	CNPF*2418A**	17,700	TXV		13.00	11.00	
	CNPH*2417A**	17,500	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CNPH*2417A**	17,600	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CNPH*2417A**	17,600	TDR&TXV	14.50		11.70	58MVB040–14
	CNPH*2417A**	17,600	TDR&TXV	14.50		11.70	58MVB060–14
	CNPH*2417A**	17,600	TDR&TXV	14.50		11.70	58MVB080–14
	CNPH*2417A**	17,700	TXV		13.00	11.00	
	CNPV*1814A**	17,400	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CNPV*1814A**	17,600	TXV		13.00	11.00	
	CNPV*2414A**	17,500	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CNPV*2414A**	17,700	TXV		13.00	11.00	
	CNPV*2417A**	17,600	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CNPV*2417A**	17,600	TDR&TXV	14.50		11.70	58MVB060–14
	CNPV*2417A**	17,700	TXV		13.00	11.00	
	CSPH*2412A**	17,700	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CSPH*2412A**	17,700	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CSPH*2412A**	17,700	TDR&TXV	14.50		11.70	58MVB040–14
	CSPH*2412A**	17,700	TDR&TXV	14.50		11.70	58MVB060–14
	CSPH*2412A**	17,700	TDR&TXV	14.50		11.70	58MVB080–14
	CSPH*2412A**	17,900	TXV		13.00	11.00	
	FE4ANF002	17,900	TDR&TXV	15.00		12.50	
	FF1ENP018	17,400	TDR&TXV	13.00		11.00	
	FF1ENP024	17,700	TDR&TXV	13.00		11.00	
	FV4BNF002	17,900	TDR&TXV	15.00		12.50	
	FX4CNF018	17,800	TDR&TXV	14.50		11.70	
	FX4CNF024	18,000	TDR&TXV	14.50		11.70	
	FY4ANF018	17,200	TDR&TXV	13.00		11.00	
	FY4ANF024	17,600	TDR&TXV	13.00		11.00	
	*CAP**2414A**	24,000	TXV		13.00	11.00	
	CAP**2414A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CAP**2417A**	24,000	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CAP**2417A**	23,800	TDR&TXV	14.50		11.70	58MVB060–14
	CAP**2417A**	24,200	TXV		13.00	11.00	
CAP**3014A**	24,000	TDR&TXV	14.50		11.70	58CV(A,X)070–12	
CAP**3014A**	24,400	TXV		13.00	11.00		
CAP**3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)090–16	
CAP**3017A**	24,200	TDR&TXV	14.50		11.70	58MVB060–14	
CAP**3017A**	24,400	TXV		13.00	11.00		
CNPF*2418A**	24,000	TXV		13.00	11.00		
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12	
CNPH*2417A**	23,800	TDR&TXV	14.50		11.70	58CV(A,X)090–16	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)110–20	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)135–22	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB040–14	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB060–14	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB080–14	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB080–20	
CNPH*2417A**	24,000	TDR&TXV	14.00		11.50	58MVB100–20	
CNPH*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB120–20	

24A PA3

See notes on pg. 16

# COMBINATION RATINGS CONTINUED

24APAS

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
24 – 30	CNPH*2417A**	24,000	TXV		13.00	11.00	
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB040–14
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB060–14
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB080–14
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB080–20
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB100–20
	CNPH*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB120–20
	CNPH*3017A**	24,400	TXV		13.00	11.00	
	CNPV*2414A**	23,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CNPV*2414A**	24,000	TXV		13.00	11.00	
	CNPV*2417A**	23,800	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CNPV*2417A**	23,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPV*2417A**	24,000	TXV		13.00	11.00	
	CNPV*3014A**	24,000	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CNPV*3014A**	24,400	TXV		13.00	11.00	
	CNPV*3017A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CNPV*3017A**	24,200	TDR&TXV	14.50		11.70	58MVB060–14
	CNPV*3017A**	24,400	TXV		13.00	11.00	
	CSPH*2412A**	24,000	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58MVB040–14
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58MVB060–14
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58MVB080–14
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58MVB080–20
	CSPH*2412A**	24,200	TDR&TXV	14.50		11.70	58MVB100–20
	CSPH*2412A**	24,000	TDR&TXV	14.00		11.50	58MVB120–20
	CSPH*2412A**	24,400	TXV		13.00	11.00	
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)070–12
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58MVB040–14
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58MVB060–14
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58MVB080–14
	CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58MVB080–20
	CSPH*3012A**	24,400	TDR&TXV	14.50		11.70	58MVB100–20
CSPH*3012A**	24,200	TDR&TXV	14.50		11.70	58MVB120–20	
CSPH*3012A**	24,600	TXV		13.00	11.00		
FE4ANF002	24,400	TDR&TXV	14.70		11.70		
FE4ANF003	24,400	TDR&TXV	15.00		12.50		
FF1ENP024	24,000	TDR&TXV	13.00		11.00		
FF1ENP030	24,000	TDR&TXV	13.00		11.00		
FV4BNF002	24,400	TDR&TXV	14.70		11.70		
FV4BNF003	24,400	TDR&TXV	15.00		12.50		
FX4CNF024	24,200	TDR&TXV	14.00		11.50		
FX4CNF030	24,600	TDR&TXV	14.50		11.70		
FY4ANF024	24,000	TDR&TXV	13.00		11.00		
FY4ANF030	24,200	TDR&TXV	13.20		11.00		
*CAP**3014A**	29,200	TXV		13.00	11.00		
CAP**3014A**	28,800	TDR&TXV	13.50		11.20	58CV(A,X)070–12	
CAP**3017A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)090–16	
CAP**3017A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14	

See notes on pg. 16

# COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
30–30	CAP**3017A**	29,200	TXV		13.00	11.00	
	CAP**3614A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CAP**3614A**	29,200	TXV		13.00	11.00	
	CAP**3617A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CAP**3617A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14
	CAP**3617A**	29,200	TXV		13.00	11.00	
	CAP**3621A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CAP**3621A**	29,000	TDR&TXV	14.00		11.50	58MVB080–14
	CAP**3621A**	29,000	TDR&TXV	14.00		11.50	58MVB080–20
	CAP**3621A**	29,000	TDR&TXV	14.00		11.50	58MVB100–20
	CAP**3621A**	29,200	TXV		13.00	11.00	
	CNPF*3618A**	29,200	TXV		13.00	11.00	
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPH*3017A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPH*3017A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)135–22
	CNPH*3017A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)155–22
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB040–14
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB080–14
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB080–20
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB100–20
	CNPH*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB120–20
	CNPH*3017A**	29,200	TXV		13.00	11.00	
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPH*3617A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPH*3617A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)135–22
	CNPH*3617A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)155–22
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB040–14
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB080–14
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB080–20
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB100–20
	CNPH*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB120–20
	CNPH*3617A**	29,200	TXV		13.00	11.00	
	CNPV*3014A**	28,800	TDR&TXV	13.50		11.20	58CV(A,X)070–12
	CNPV*3014A**	29,200	TXV		13.00	11.00	
	CNPV*3017A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPV*3017A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPV*3017A**	29,200	TXV		13.00	11.00	
	CNPV*3617A**	28,800	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPV*3617A**	28,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPV*3617A**	29,200	TXV		13.00	11.00	
	CNPV*3621A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPV*3621A**	28,800	TDR&TXV	14.00		11.50	58MVB080–14
	CNPV*3621A**	28,800	TDR&TXV	14.00		11.50	58MVB080–20
	CNPV*3621A**	28,800	TDR&TXV	14.00		11.50	58MVB100–20
	CNPV*3621A**	29,200	TXV		13.00	11.00	
	CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)070–12
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)090–16	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)135–22	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB040–14	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB060–14	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB080–14	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB080–20	
CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB100–20	

See notes on pg. 16

24A PA3

# COMBINATION RATINGS CONTINUED

24APAS

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
30–30	CSPH*3012A**	29,000	TDR&TXV	14.00		11.50	58MVB120–20
	CSPH*3012A**	29,400	TXV		13.20	11.00	
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CSPH*3612A**	29,600	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CSPH*3612A**	29,600	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CSPH*3612A**	29,600	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.50	58MVB040–14
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.70	58MVB060–14
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.50	58MVB080–14
	CSPH*3612A**	29,400	TDR&TXV	14.00		11.50	58MVB080–20
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.70	58MVB100–20
	CSPH*3612A**	29,400	TDR&TXV	14.50		11.70	58MVB120–20
	CSPH*3612A**	29,800	TXV		13.20	11.00	
	FE4ANF002	29,000	TDR&TXV	14.00		11.50	
	FE4ANF003	29,200	TDR&TXV	14.50		11.70	
	FE4ANF005	30,000	TDR&TXV	15.00		12.50	
	FF1ENP030	28,800	TDR&TXV	13.00		11.00	
	FF1ENP036	29,200	TDR&TXV	13.00		11.00	
	FV4BNF002	29,000	TDR&TXV	14.00		11.50	
	FV4BNF003	29,200	TDR&TXV	14.50		11.70	
	FV4BNF005	30,000	TDR&TXV	15.00		12.50	
	FX4CN(B,F)036	29,600	TDR&TXV	14.00		11.50	
	FX4CNF030	29,200	TDR&TXV	13.50		11.20	
	FY4ANF030	28,800	TDR&TXV	13.00		11.00	
	FY4ANF036	29,200	TDR&TXV	13.00		11.00	
	*CAP**3617A**	35,000	TXV		13.00	11.00	
	CAP**3614A**	34,400	TDR&TXV	13.50		11.20	58CV(A,X)070–12
CAP**3614A**	34,600	TXV		13.00	11.00		
CAP**3617A**	34,600	TDR&TXV	14.00		11.50	58CV(A,X)090–16	
CAP**3617A**	34,400	TDR&TXV	13.50		11.20	58MVB060–14	
CAP**3621A**	34,600	TDR&TXV	14.00		11.50	58CV(A,X)110–20	
CAP**3621A**	34,400	TDR&TXV	13.50		11.20	58MVB080–14	
CAP**3621A**	34,600	TDR&TXV	13.50		11.20	58MVB080–20	
CAP**3621A**	34,600	TDR&TXV	14.00		11.50	58MVB100–20	
CAP**3621A**	35,000	TXV		13.00	11.00		
CAP**4221A**	34,800	TDR&TXV	14.00		11.50	58CV(A,X)110–20	
CAP**4221A**	34,600	TDR&TXV	13.50		11.20	58MVB080–14	
CAP**4221A**	34,800	TDR&TXV	14.00		11.50	58MVB080–20	
CAP**4221A**	34,800	TDR&TXV	14.00		11.50	58MVB100–20	
CAP**4221A**	35,200	TXV		13.00	11.00		
CAP**4224A**	34,800	TDR&TXV	14.00		11.50	58CV(A,X)135–22	
CAP**4224A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)155–22	
CAP**4224A**	34,600	TDR&TXV	13.50		11.20	58MVB040–14	
CAP**4224A**	34,800	TDR&TXV	14.00		11.50	58MVB120–20	
CAP**4224A**	35,200	TXV		13.00	11.00		
CNPF*3618A**	34,800	TXV		13.00	11.00		
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58CV(A,X)070–12	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58CV(A,X)090–16	
CNPH*3617A**	34,600	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CNPH*3617A**	34,600	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CNPH*3617A**	34,600	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB040–14	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB060–14	
CNPH*3617A**	34,200	TDR&TXV	13.50		11.20	58MVB080–14	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB080–20	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB100–20	
CNPH*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB120–20	
CNPH*3617A**	34,800	TXV		13.00	11.00		
CNPH*4221A**	34,800	TDR&TXV	14.00		11.50	58CV(A,X)070–12	
CNPH*4221A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)090–16	
CNPH*4221A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)110–20	
CNPH*4221A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)135–22	
CNPH*4221A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)155–22	

See notes on pg. 16

# COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
36–30	CNPH*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB040–14
	CNPH*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB060–14
	CNPH*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB080–14
	CNPH*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB080–20
	CNPH*4221A**	35,000	TDR&TXV	14.00		11.50	58MVB100–20
	CNPH*4221A**	34,800	TDR&TXV	14.50		11.70	58MVB120–20
	CNPH*4221A**	35,200	TXV		13.00	11.00	
	CNPV*3617A**	34,400	TDR&TXV	13.50		11.20	58CV(A,X)090–16
	CNPV*3617A**	34,400	TDR&TXV	13.50		11.20	58MVB060–14
	CNPV*3617A**	34,800	TXV		13.00	11.00	
	CNPV*3621A**	34,600	TDR&TXV	13.50		11.20	58CV(A,X)110–20
	CNPV*3621A**	34,200	TDR&TXV	13.50		11.20	58MVB080–14
	CNPV*3621A**	34,400	TDR&TXV	13.50		11.20	58MVB080–20
	CNPV*3621A**	34,400	TDR&TXV	13.50		11.20	58MVB100–20
	CNPV*3621A**	34,800	TXV		13.00	11.00	
	CNPV*4221A**	35,000	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CNPV*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB080–14
	CNPV*4221A**	34,800	TDR&TXV	14.00		11.50	58MVB080–20
	CNPV*4221A**	35,000	TDR&TXV	14.00		11.50	58MVB100–20
	CNPV*4221A**	35,200	TXV		13.00	11.00	
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CSPH*3612A**	35,400	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CSPH*3612A**	35,400	TDR&TXV	14.00		11.50	58CV(A,X)135–22
	CSPH*3612A**	35,400	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58MVB040–14
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58MVB060–14
	CSPH*3612A**	35,000	TDR&TXV	13.50		11.20	58MVB080–14
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58MVB080–20
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58MVB100–20
	CSPH*3612A**	35,200	TDR&TXV	14.00		11.50	58MVB120–20
	CSPH*3612A**	35,600	TXV		13.00	11.00	
	CSPH*4212A**	35,400	TDR&TXV	14.00		11.50	58CV(A,X)070–12
	CSPH*4212A**	35,400	TDR&TXV	14.50		11.70	58CV(A,X)090–16
	CSPH*4212A**	35,600	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CSPH*4212A**	35,600	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CSPH*4212A**	35,600	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CSPH*4212A**	35,200	TDR&TXV	14.00		11.50	58MVB040–14
	CSPH*4212A**	35,400	TDR&TXV	14.00		11.50	58MVB060–14
	CSPH*4212A**	35,200	TDR&TXV	14.00		11.50	58MVB080–14
	CSPH*4212A**	35,400	TDR&TXV	14.00		11.50	58MVB080–20
	CSPH*4212A**	35,400	TDR&TXV	14.00		11.50	58MVB100–20
	CSPH*4212A**	35,400	TDR&TXV	14.00		11.50	58MVB120–20
	CSPH*4212A**	35,800	TXV		13.00	11.00	
	FE4ANB006	36,400	TDR&TXV	15.00		12.00	
	FE4ANF002	34,600	TDR&TXV	13.50		11.20	
	FE4ANF003	34,800	TDR&TXV	14.00		11.50	
	FE4ANF005	36,000	TDR&TXV	15.00		12.50	
	FF1ENP036	34,800	TDR&TXV	13.00		11.00	
	FV4BNB006	36,400	TDR&TXV	15.00		12.00	
	FV4BNF002	34,600	TDR&TXV	13.50		11.20	
	FV4BNF003	34,800	TDR&TXV	14.00		11.50	
	FV4BNF005	36,000	TDR&TXV	15.00		12.50	
	FX4CN(B,F)036	35,400	TDR&TXV	14.00		11.50	
	FX4CN(B,F)042	36,000	TDR&TXV	14.00		11.50	
	FY4ANF036	34,800	TDR&TXV	13.00		10.95	
	FY4ANF042	35,400	TDR&TXV	13.00		11.00	
	*CAP**4221A**	42,000	TXV		13.00	11.00	
	CAP**4221A**	41,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CAP**4221A**	41,500	TDR&TXV	13.50		11.20	58MVB080–14
CAP**4221A**	41,500	TDR&TXV	13.50		11.20	58MVB080–20	
CAP**4221A**	41,500	TDR&TXV	13.50		11.20	58MVB100–20	
CAP**4224A**	41,500	TDR&TXV	14.00		11.50	58CV(A,X)135–22	
CAP**4224A**	41,500	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CAP**4224A**	41,500	TDR&TXV	13.50		11.20	58MVB040–14	
CAP**4224A**	41,500	TDR&TXV	14.00		11.50	58MVB120–20	
CAP**4224A**	42,000	TXV		13.00	11.00		
CAP**4817A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)090–16	
CAP**4817A**	42,500	TDR&TXV	14.00		11.50	58MVB060–14	
CAP**4817A**	43,000	TXV		13.00	11.00		

24A PA3

See notes on pg. 16

# COMBINATION RATINGS CONTINUED

24APAS

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
42–30	CAP**4821A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CAP**4821A**	42,000	TDR&TXV	13.50		11.20	58MVB080–14
	CAP**4821A**	42,000	TDR&TXV	14.00		11.50	58MVB080–20
	CAP**4821A**	42,000	TDR&TXV	14.00		11.50	58MVB100–20
	CAP**4821A**	43,000	TXV		13.00	11.00	
	CAP**4824A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CAP**4824A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CAP**4824A**	42,000	TDR&TXV	13.50		11.20	58MVB040–14
	CAP**4824A**	42,000	TDR&TXV	14.00		11.50	58MVB120–20
	CAP**4824A**	43,000	TXV		13.00	11.00	
	CNPF*4818A**	42,500	TXV		13.00	11.00	
	CNPH*4221A**	41,500	TDR&TXV	13.50		11.20	58CV(A,X)070–12
	CNPH*4221A**	41,500	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPH*4221A**	42,000	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPH*4221A**	42,000	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CNPH*4221A**	42,000	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CNPH*4221A**	41,500	TDR&TXV	13.50		11.20	58MVB040–14
	CNPH*4221A**	41,500	TDR&TXV	14.00		11.50	58MVB060–14
	CNPH*4221A**	41,500	TDR&TXV	13.50		11.20	58MVB080–14
	CNPH*4221A**	41,500	TDR&TXV	14.00		11.50	58MVB080–20
	CNPH*4221A**	42,000	TDR&TXV	14.00		11.50	58MVB100–20
	CNPH*4221A**	41,500	TDR&TXV	14.00		11.50	58MVB120–20
	CNPH*4221A**	42,000	TXV		13.00	11.00	
	CNPH*4821A**	42,500	TDR&TXV	13.50		11.20	58CV(A,X)070–12
	CNPH*4821A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CNPH*4821A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPH*4821A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CNPH*4821A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CNPH*4821A**	42,000	TDR&TXV	14.00		11.50	58MVB040–14
	CNPH*4821A**	42,000	TDR&TXV	14.00		11.50	58MVB060–14
	CNPH*4821A**	42,000	TDR&TXV	13.50		11.20	58MVB080–14
	CNPH*4821A**	42,500	TDR&TXV	14.00		11.50	58MVB080–20
	CNPH*4821A**	42,500	TDR&TXV	14.00		11.50	58MVB100–20
	CNPH*4821A**	42,000	TDR&TXV	14.00		11.50	58MVB120–20
	CNPH*4821A**	43,000	TXV		13.00	11.00	
	CNPV*4221A**	42,000	TDR&TXV	14.50		11.70	58CV(A,X)110–20
	CNPV*4221A**	41,500	TDR&TXV	13.50		11.20	58MVB080–14
	CNPV*4221A**	41,500	TDR&TXV	14.00		11.50	58MVB080–20
	CNPV*4221A**	42,000	TDR&TXV	14.00		11.50	58MVB100–20
	CNPV*4221A**	42,000	TXV		13.00	11.00	
	CNPV*4821A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CNPV*4821A**	42,000	TDR&TXV	13.50		11.20	58MVB080–14
	CNPV*4821A**	42,500	TDR&TXV	14.00		11.50	58MVB080–20
	CNPV*4821A**	42,500	TDR&TXV	14.00		11.50	58MVB100–20
	CNPV*4821A**	43,000	TXV		13.00	11.00	
	CNPV*4824A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)135–22
	CNPV*4824A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)155–22
	CNPV*4824A**	42,000	TDR&TXV	13.50		11.20	58MVB040–14
	CNPV*4824A**	42,000	TDR&TXV	14.00		11.50	58MVB120–20
	CNPV*4824A**	43,000	TXV		13.00	11.00	
	CSPH*4212A**	42,500	TDR&TXV	13.50		11.20	58CV(A,X)070–12
	CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)090–16
	CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20
	CSPH*4212A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)135–22
CSPH*4212A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)155–22	
CSPH*4212A**	42,000	TDR&TXV	13.50		11.20	58MVB040–14	
CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58MVB060–14	
CSPH*4212A**	42,000	TDR&TXV	13.50		11.20	58MVB080–14	
CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58MVB080–20	
CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58MVB100–20	
CSPH*4212A**	42,500	TDR&TXV	14.00		11.50	58MVB120–20	
CSPH*4212A**	43,000	TXV		13.00	11.00		
CSPH*4812A**	42,500	TDR&TXV	13.50		11.20	58CV(A,X)070–12	
CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)090–16	
CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58CV(A,X)110–20	
CSPH*4812A**	43,000	TDR&TXV	14.50		11.70	58CV(A,X)135–22	
CSPH*4812A**	42,500	TDR&TXV	14.50		11.70	58CV(A,X)155–22	
CSPH*4812A**	42,500	TDR&TXV	13.50		11.20	58MVB040–14	

See notes on pg. 16

# COMBINATION RATINGS CONTINUED

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
42–30	CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58MVB060–14
	CSPH*4812A**	42,500	TDR&TXV	13.50		11.20	58MVB080–14
	CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58MVB080–20
	CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58MVB100–20
	CSPH*4812A**	42,500	TDR&TXV	14.00		11.50	58MVB120–20
	CSPH*4812A**	43,500	TXV		13.00	11.00	
	FE4ANB006	44,000	TDR&TXV	15.00		12.50	
	FE4ANF003	41,500	TDR&TXV	14.20		11.50	
	FE4ANF005	43,500	TDR&TXV	14.70		11.70	
	FV4BNB006	44,000	TDR&TXV	15.00		12.50	
	FV4BNF003	41,500	TDR&TXV	14.20		11.50	
	FV4BNF005	43,500	TDR&TXV	14.70		11.70	
	FX4CN(B,F)042	43,000	TDR&TXV	14.00		11.50	
	FX4CN(B,F)048	44,000	TDR&TXV	14.50		11.70	
	FY4ANF042	42,500	TDR&TXV	13.00		11.00	
	FY4ANF048	43,500	TDR&TXV	13.20		11.00	
*CAP**4821A**	47,000	TXV		13.00	11.00		
CAP**4817A**	46,500	TDR&TXV	13.20		11.00	58CV(A,X)090–16	
CAP**4817A**	46,500	TXV		13.00	11.00		
CAP**4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CAP**4821A**	46,000	TDR&TXV	13.20		11.00	58MVB080–20	
CAP**4821A**	46,000	TDR&TXV	13.20		11.00	58MVB100–20	
CAP**4824A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CAP**4824A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)155–22	
CAP**4824A**	46,000	TDR&TXV	13.20		11.00	58MVB120–20	
CAP**4824A**	47,000	TXV		13.00	11.00		
CAP**6021A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CAP**6021A**	47,500	TDR&TXV	13.50		11.20	58MVB080–20	
CAP**6021A**	47,500	TDR&TXV	13.50		11.20	58MVB100–20	
CAP**6021A**	48,500	TXV			11.00		
CAP**6024A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CAP**6024A**	47,500	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CAP**6024A**	47,500	TDR&TXV	13.50		11.20	58MVB120–20	
CAP**6024A**	48,500	TXV			11.00		
CNPF*4818A**	46,000	TXV		13.00	11.00		
CNPH*4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)090–16	
CNPH*4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CNPH*4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CNPH*4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)155–22	
CNPH*4821A**	46,500	TDR&TXV	13.20		11.00	58MVB080–20	
CNPH*4821A**	46,500	TDR&TXV	13.20		11.00	58MVB100–20	
CNPH*4821A**	46,500	TDR&TXV	13.20		11.00	58MVB120–20	
CNPH*4821A**	47,000	TXV		13.00	11.00		
CNPH*6024A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)090–16	
CNPH*6024A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CNPH*6024A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CNPH*6024A**	47,500	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CNPH*6024A**	47,000	TDR&TXV	13.50		11.20	58MVB080–20	
CNPH*6024A**	47,500	TDR&TXV	13.50		11.20	58MVB100–20	
CNPH*6024A**	47,000	TDR&TXV	13.50		11.20	58MVB120–20	
CNPH*6024A**	48,500	TXV		13.00	11.00		
CNPV*4821A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20	
CNPV*4821A**	46,500	TDR&TXV	13.20		11.00	58MVB080–20	
CNPV*4821A**	46,500	TDR&TXV	13.20		11.00	58MVB100–20	
CNPV*4821A**	47,000	TXV		13.00	11.00		
CNPV*4824A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CNPV*4824A**	46,500	TDR&TXV	13.50		11.20	58CV(A,X)155–22	
CNPV*4824A**	46,500	TDR&TXV	13.20		11.00	58MVB120–20	
CNPV*4824A**	47,500	TXV		13.00	11.00		
CNPV*6024A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)135–22	
CNPV*6024A**	47,500	TDR&TXV	14.00		11.50	58CV(A,X)155–22	
CNPV*6024A**	47,000	TDR&TXV	13.50		11.20	58MVB120–20	
CNPV*6024A**	48,500	TXV		13.00	11.00		
CSPH*4812A**	47,000	TDR&TXV	13.50		11.20	58CV(A,X)090–16	
CSPH*4812A**	47,000	TDR&TXV	13.50		11.20	58CV(A,X)110–20	

See notes on pg. 16

24A PA3

# COMBINATION RATINGS CONTINUED

24APAS

Unit Size – Voltage, Series	Indoor Model	Total Cap. BTUH	Factory Supplied Enhancement	SEER		EER	Furnace Model
				Standard Rating	TDR†		
48–30	CSPH*4812A**	47,000	TDR&TXV	13.50		11.20	58CV(A,X)135–22
	CSPH*4812A**	47,000	TDR&TXV	13.50		11.20	58CV(A,X)155–22
	CSPH*4812A**	46,500	TDR&TXV	13.20		11.00	58MVB080–20
	CSPH*4812A**	47,000	TDR&TXV	13.20		11.00	58MVB100–20
	CSPH*4812A**	46,500	TDR&TXV	13.50		11.20	58MVB120–20
	CSPH*4812A**	47,500	TXV		13.00	11.00	
	CSPH*6012A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)090–16
	CSPH*6012A**	47,500	TDR&TXV	13.50		11.20	58CV(A,X)110–20
	CSPH*6012A**	47,500	TDR&TXV	14.00		11.50	58CV(A,X)135–22
	CSPH*6012A**	48,000	TDR&TXV	14.00		11.50	58CV(A,X)155–22
	CSPH*6012A**	47,500	TDR&TXV	13.50		11.20	58MVB080–20
	CSPH*6012A**	47,500	TDR&TXV	13.50		11.20	58MVB100–20
	CSPH*6012A**	47,500	TDR&TXV	13.50		11.20	58MVB120–20
	CSPH*6012A**	48,500	TXV		13.00	11.00	
	FE4ANB006	48,500	TDR&TXV	14.00		11.50	
	FE4ANF005	48,000	TDR&TXV	13.50		11.20	
	FV4BNB006	48,500	TDR&TXV	14.00		11.50	
	FV4BNF005	48,000	TDR&TXV	13.50		11.20	
	FX4CN(B,F)048	48,000	TDR&TXV	13.50		11.20	
	FX4CN(B,F)060	50,000	TDR&TXV	14.00		11.50	
FY4ANB060	48,000	TDR&TXV	13.20		11.00		
FY4ANF048	47,500	TDR&TXV	13.00		11.00		
*CAP**6024A**	59,500	TXV		13.00	11.00		
60–30	CAP**6021A**		TDR&TXV			11.00	58CV(A,X)110–20
	CAP**6021A**		TDR&TXV			11.00	58MVB080–20
	CAP**6021A**		TDR&TXV			10.70	58MVB100–20
	CAP**6021A**	59,000	TXV		13.00	10.70	
	CAP**6024A**	59,000	TDR&TXV	13.20		11.00	58CV(A,X)135–22
	CAP**6024A**	59,000	TDR&TXV	13.20		10.70	58CV(A,X)155–22
	CAP**6024A**		TDR&TXV			10.70	58MVB120–20
	CNPH*6024A**		TDR&TXV			11.00	58CV(A,X)110–20
	CNPH*6024A**	58,500	TDR&TXV	13.20		10.70	58CV(A,X)135–22
	CNPH*6024A**	59,000	TDR&TXV	13.20		11.00	58CV(A,X)155–22
	CNPH*6024A**		TDR&TXV			10.70	58MVB080–20
	CNPH*6024A**		TDR&TXV			11.00	58MVB100–20
	CNPH*6024A**		TDR&TXV			10.70	58MVB120–20
	CNPH*6024A**	59,500	TXV		13.00	11.00	
	CNPV*6024A**	58,500	TDR&TXV	13.20		11.00	58CV(A,X)135–22
	CNPV*6024A**	59,000	TDR&TXV	13.20		10.70	58CV(A,X)155–22
	CNPV*6024A**		TDR&TXV			10.70	58MVB120–20
	CNPV*6024A**	59,500	TXV		13.00	11.00	
	CSPH*6012A**	59,000	TDR&TXV	13.20		10.70	58CV(A,X)110–20
	CSPH*6012A**	59,000	TDR&TXV	13.20		11.00	58CV(A,X)135–22
CSPH*6012A**	59,500	TDR&TXV	13.50		10.70	58CV(A,X)155–22	
CSPH*6012A**		TDR&TXV			11.00	58MVB080–20	
CSPH*6012A**		TDR&TXV			10.70	58MVB100–20	
CSPH*6012A**		TDR&TXV			11.00	58MVB120–20	
CSPH*6012A**	60,000	TXV		13.00	10.70		
FE4ANB006	60,000	TDR&TXV	13.50		11.00		
FV4BNB006	60,000	TDR&TXV	13.50		10.70		
FX4CN(B,F)060	60,500	TDR&TXV	13.20		10.70		
FY4ANB060	59,000	TDR&TXV	13.00		11.00		

\* Tested combination

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

**EER** — Energy Efficiency Ratio

**SEER** — Seasonal Energy Efficiency Ratio

**TDR** — Time–Delay Relay

**TXV** — Thermostatic Expansion Valve

**NOTES:**

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

# DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
		75				85				95				105				115				125			
		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 Sys-tem KW**						
Total	Sens†	Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†										
<b>24APA318A30 Outdoor Section With CAP**1814A** Indoor Section</b>																									
525	72	20.87	10.95	1.25	19.90	10.58	1.41	18.89	10.20	1.58	17.84	9.81	1.78	16.75	9.40	2.00	15.54	8.97	2.25						
	67	19.05	13.43	1.26	18.15	13.05	1.42	17.22	12.66	1.60	16.25	12.26	1.80	15.24	11.85	2.02	14.13	11.40	2.26						
	62	17.43	15.88	1.27	16.61	15.49	1.43	15.77	15.09	1.61	14.92	14.67	1.81	14.10	14.10	2.03	13.26	13.26	2.27						
	57	16.92	16.92	1.28	16.26	16.26	1.44	15.58	15.58	1.61	14.86	14.86	1.81	14.10	14.10	2.03	13.26	13.26	2.27						
600	72	21.24	11.49	1.27	20.22	11.11	1.43	19.17	10.72	1.61	18.08	10.32	1.81	16.95	9.92	2.03	15.70	9.48	2.27						
	67	19.40	14.29	1.29	18.46	13.90	1.45	17.50	13.51	1.62	16.50	13.11	1.82	15.45	12.69	2.04	14.31	12.24	2.29						
	62	17.84	17.07	1.30	17.01	16.65	1.46	16.19	16.19	1.64	15.43	15.43	1.83	14.62	14.62	2.05	13.72	13.72	2.29						
	57	17.63	17.63	1.30	16.93	16.93	1.46	16.20	16.20	1.64	15.43	15.43	1.83	14.62	14.62	2.05	13.72	13.72	2.29						
675	72	21.50	11.99	1.30	20.45	11.61	1.46	19.36	11.22	1.64	18.25	10.82	1.84	17.09	10.41	2.06	15.81	9.96	2.30						
	67	19.66	15.12	1.31	18.70	14.73	1.47	17.70	14.33	1.65	16.67	13.92	1.85	15.60	13.49	2.07	14.44	13.02	2.31						
	62	18.23	18.12	1.33	17.48	17.48	1.48	16.70	16.70	1.66	15.89	15.89	1.86	15.03	15.03	2.08	14.09	14.09	2.32						
	57	18.22	18.22	1.33	17.48	17.48	1.48	16.70	16.70	1.66	15.89	15.89	1.86	15.03	15.03	2.08	14.09	14.09	2.32						

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**1814A**	1.00	1.00	
CAP**2414A**	1.01	1.01	
CAP**2417A**	1.01	1.01	
CNPF*2418A**	1.01	1.01	
CNPH*2417A**	1.01	1.01	
CNPV*1814A**	1.01	1.01	
CNPV*2414A**	1.01	1.01	
CNPV*2417A**	1.01	1.01	
CSPH*2412A**	1.02	1.02	
FE4ANF002	1.02	0.94	
FF1ENP018	0.99	0.99	
FF1ENP024	1.01	1.01	
FV4BNF002	1.02	0.94	
FX4CNF018	1.02	0.96	
FX4CNF024	1.03	0.97	
FY4ANF018	0.98	0.98	
FY4ANF024	1.01	1.01	

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**1814A**	0.98	0.94	58CV(A,X)070-12
CAP**2414A**	1.00	0.94	58CV(A,X)070-12
CNPH*2417A**	1.00	0.94	58CV(A,X)070-12
CNPV*1814A**	0.99	0.95	58CV(A,X)070-12
CNPV*2414A**	1.00	0.94	58CV(A,X)070-12
CSPH*2412A**	1.01	0.95	58CV(A,X)070-12
CAP**2417A**	1.01	0.95	58CV(A,X)090-16
CNPH*2417A**	1.01	0.95	58CV(A,X)090-16
CNPV*2417A**	1.01	0.95	58CV(A,X)090-16
CSPH*2412A**	1.01	0.95	58CV(A,X)090-16
CNPH*2417A**	1.01	0.95	58MVB040-14
CSPH*2412A**	1.01	0.95	58MVB040-14
CAP**2417A**	1.01	0.95	58MVB060-14
CNPH*2417A**	1.01	0.95	58MVB060-14
CNPV*2417A**	1.01	0.95	58MVB060-14
CSPH*2412A**	1.01	0.95	58MVB060-14
CNPH*2417A**	1.01	0.95	58MVB080-14
CSPH*2412A**	1.01	0.95	58MVB080-14

See notes on pg. 23

24APA3

# DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
CFM	EW B	75				85			95			105			115			125		
		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 Sys-tem KW**	Capacity MBtu/h†	Total Sys-tem KW**				
		Total	Sens ‡														Total	Sens ‡	Total	Sens ‡
<b>24APA324A30 Outdoor Section With CAP**2414A** Indoor Section</b>																				
700	72	28.38	14.78	1.66	27.16	14.31	1.87	25.87	13.81	2.09	24.51	13.30	2.34	23.05	12.76	2.62	21.44	12.17	2.92	
	67	25.95	18.07	1.66	24.81	17.58	1.86	23.60	17.07	2.09	22.32	16.54	2.34	20.97	15.99	2.62	19.49	15.39	2.92	
	62	23.73	21.32	1.65	22.68	20.82	1.85	21.58	20.30	2.08	20.43	19.74	2.33	19.24	19.13	2.61	18.11	18.11	2.92	
	57	22.91	22.91	1.65	22.07	22.07	1.85	21.18	21.18	2.08	20.24	20.24	2.33	19.22	19.22	2.61	18.11	18.11	2.92	
800	72	28.88	15.48	1.70	27.62	15.01	1.90	26.27	14.51	2.13	24.87	14.00	2.38	23.36	13.45	2.66	21.68	12.85	2.96	
	67	26.44	19.21	1.69	25.25	18.72	1.90	24.00	18.21	2.12	22.68	17.67	2.37	21.28	17.11	2.65	19.75	16.50	2.96	
	62	24.30	22.91	1.69	23.22	22.38	1.89	22.11	21.82	2.12	21.05	21.05	2.37	19.96	19.96	2.65	18.78	18.78	2.96	
	57	23.90	23.90	1.69	23.00	23.00	1.89	22.06	22.06	2.12	21.05	21.05	2.37	19.96	19.96	2.65	18.78	18.78	2.96	
900	72	29.24	16.15	1.74	27.94	15.68	1.94	26.55	15.17	2.17	25.11	14.65	2.42	23.56	14.10	2.69	21.85	13.50	2.99	
	67	26.80	20.30	1.73	25.59	19.81	1.93	24.30	19.29	2.16	22.95	18.76	2.41	21.51	18.18	2.69	19.94	17.56	2.99	
	62	24.79	24.36	1.72	23.75	23.75	1.93	22.77	22.77	2.16	21.70	21.70	2.41	20.56	20.56	2.69	19.31	19.31	2.99	
	57	24.71	24.71	1.72	23.77	23.77	1.93	22.77	22.77	2.16	21.71	21.71	2.41	20.56	20.56	2.69	19.31	19.31	2.99	

**24APA3**

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**2414A**	1.00	1.00	
CAP**2417A**	1.01	1.01	
CAP**3014A**	1.02	1.02	
CAP**3017A**	1.02	1.02	
CNPF*2418A**	1.00	1.00	
CNPH*2417A**	1.00	1.00	
CNPH*3017A**	1.02	1.02	
CNPV*2414A**	1.00	1.00	
CNPV*2417A**	1.00	1.00	
CNPV*3014A**	1.02	1.02	
CNPV*3017A**	1.02	1.02	
CSPH*2412A**	1.02	1.02	
CSPH*3012A**	1.03	1.03	
FE4ANF002	1.02	0.96	
FE4ANF003	1.02	0.93	
FF1ENP024	1.00	1.00	
FF1ENP030	1.00	1.00	
FV4BNF002	1.02	0.96	
FV4BNF003	1.02	0.93	
FX4CNF024	1.01	0.96	
FX4CNF030	1.03	0.96	
FY4ANF024	1.00	1.00	
FY4ANF030	1.01	1.01	
CAP**2414A**	0.99	0.95	58CV(A,X)070-12
CAP**3014A**	1.00	0.94	58CV(A,X)070-12
CNPH*2417A**	0.99	0.95	58CV(A,X)070-12
CNPH*3017A**	1.01	0.95	58CV(A,X)070-12
CNPV*2414A**	0.99	0.95	58CV(A,X)070-12
CNPV*3014A**	1.00	0.94	58CV(A,X)070-12
CSPH*2412A**	1.00	0.94	58CV(A,X)070-12
CSPH*3012A**	1.01	0.95	58CV(A,X)070-12
CAP**2417A**	1.00	0.94	58CV(A,X)090-16
CAP**3017A**	1.01	0.95	58CV(A,X)090-16
CNPH*2417A**	0.99	0.93	58CV(A,X)090-16
CNPH*3017A**	1.01	0.95	58CV(A,X)090-16
CNPV*2417A**	0.99	0.93	58CV(A,X)090-16
CNPV*3017A**	1.01	0.95	58CV(A,X)090-16
CSPH*2412A**	1.01	0.95	58CV(A,X)090-16
CSPH*3012A**	1.01	0.95	58CV(A,X)090-16

Cooling Indoor Model	Capacity	Power	Furnace Model
CNPH*2417A**	0.99	0.95	58CV(A,X)110-20
CNPH*3017A**	1.01	0.95	58CV(A,X)110-20
CSPH*2412A**	1.01	0.95	58CV(A,X)110-20
CSPH*3012A**	1.01	0.95	58CV(A,X)110-20
CNPH*2417A**	0.99	0.95	58CV(A,X)135-22
CNPH*3017A**	1.01	0.95	58CV(A,X)135-22
CSPH*2412A**	1.01	0.95	58CV(A,X)135-22
CSPH*3012A**	1.01	0.95	58CV(A,X)135-22
CNPH*2417A**	0.99	0.95	58CV(A,X)155-22
CNPH*3017A**	1.01	0.95	58CV(A,X)155-22
CSPH*2412A**	1.01	0.95	58CV(A,X)155-22
CSPH*3012A**	1.01	0.95	58CV(A,X)155-22
CNPH*2417A**	0.99	0.95	58MVB040-14
CNPH*3017A**	1.01	0.95	58MVB040-14
CSPH*2412A**	1.01	0.95	58MVB040-14
CSPH*3012A**	1.01	0.95	58MVB040-14
CAP**2417A**	0.99	0.93	58MVB060-14
CAP**3017A**	1.01	0.95	58MVB060-14
CNPH*2417A**	0.99	0.95	58MVB060-14
CNPH*3017A**	1.01	0.95	58MVB060-14
CNPV*2417A**	0.99	0.95	58MVB060-14
CNPV*3017A**	1.01	0.95	58MVB060-14
CSPH*2412A**	1.01	0.95	58MVB060-14
CSPH*3012A**	1.01	0.95	58MVB060-14
CNPH*2417A**	0.99	0.95	58MVB080-14
CNPH*3017A**	1.01	0.95	58MVB080-14
CSPH*2412A**	1.01	0.95	58MVB080-14
CSPH*3012A**	1.01	0.95	58MVB080-14
CNPH*2417A**	0.99	0.95	58MVB080-20
CNPH*3017A**	1.01	0.95	58MVB080-20
CSPH*2412A**	1.01	0.95	58MVB080-20
CSPH*3012A**	1.01	0.95	58MVB080-20
CNPH*2417A**	1.00	0.96	58MVB100-20
CNPH*3017A**	1.01	0.95	58MVB100-20
CSPH*2412A**	1.01	0.95	58MVB100-20
CSPH*3012A**	1.02	0.96	58MVB100-20
CNPH*2417A**	0.99	0.95	58MVB120-20
CNPH*3017A**	1.01	0.95	58MVB120-20
CSPH*2412A**	1.00	0.96	58MVB120-20
CSPH*3012A**	1.01	0.95	58MVB120-20

See notes on pg. 23

# DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		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* *
Total	Sens ‡	Total	Sens ‡		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡				
<b>24APA330A30 Outdoor Section With CAP**3014A** Indoor Section</b>																			
875	72	34.61	18.19	2.08	33.10	17.62	2.32	31.52	17.02	2.59	29.83	16.39	2.88	28.04	15.73	3.22	26.50	15.17	3.54
	67	31.40	22.24	2.08	30.00	21.65	2.32	28.52	21.04	2.59	26.96	20.39	2.89	25.30	19.72	3.22	23.57	19.03	3.59
	62	28.62	26.29	2.09	27.35	25.68	2.32	26.02	25.04	2.59	24.64	24.34	2.89	23.34	23.34	3.23	22.03	22.03	3.60
	57	27.84	27.84	2.09	26.82	26.82	2.33	25.74	25.74	2.59	24.58	24.58	2.89	23.34	23.34	3.23	22.03	22.03	3.60
1000	72	35.25	19.09	2.13	33.68	18.50	2.36	32.03	17.89	2.63	30.28	17.26	2.93	28.43	16.59	3.26	26.87	16.03	3.63
	67	31.99	23.66	2.13	30.53	23.06	2.37	29.00	22.44	2.63	27.38	21.79	2.93	25.67	21.11	3.27	23.89	20.40	3.63
	62	29.30	28.22	2.13	28.02	27.56	2.37	26.77	26.77	2.63	25.54	25.54	2.94	24.22	24.22	3.27	22.83	22.83	3.64
	57	29.02	29.02	2.13	27.93	27.93	2.37	26.78	26.78	2.63	25.54	25.54	2.94	24.23	24.23	3.27	22.84	22.84	3.64
1125	72	35.72	19.92	2.17	34.11	19.33	2.41	32.41	18.71	2.67	30.61	18.07	2.97	28.70	17.39	3.30	27.12	16.84	3.67
	67	32.43	25.01	2.17	30.93	24.41	2.41	29.36	23.78	2.68	27.70	23.12	2.98	25.96	22.42	3.31	24.13	21.69	3.68
	62	29.97	29.97	2.17	28.85	28.85	2.41	27.63	27.63	2.68	26.34	26.34	2.98	24.95	24.95	3.31	23.49	23.49	3.68
	57	30.00	30.00	2.17	28.85	28.85	2.41	27.64	27.64	2.68	26.34	26.34	2.98	24.95	24.95	3.31	23.49	23.49	3.68

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**3014A**	1.00	1.00	
CAP**3017A**	1.00	1.00	
CAP**3614A**	1.00	1.00	
CAP**3617A**	1.00	1.00	
CAP**3621A**	1.00	1.00	
CNPF*3618A**	1.00	1.00	
CNPH*3017A**	1.00	1.00	
CNPH*3617A**	1.00	1.00	
CNPV*3014A**	1.00	1.00	
CNPV*3017A**	1.00	1.00	
CNPV*3617A**	1.00	1.00	
CNPV*3621A**	1.00	1.00	
CSPH*3012A**	1.01	1.01	
CSPH*3612A**	1.02	1.02	
FE4ANF002	0.99	0.95	
FE4ANF003	1.00	0.94	
FE4ANF005	1.03	0.94	
FF1ENP030	0.99	0.99	
FF1ENP036	1.00	1.00	
FV4BNF002	0.99	0.95	
FV4BNF003	1.00	0.94	
FV4BNF005	1.03	0.94	
FX4CN(B,F)036	1.01	0.97	
FX4CNF030	1.00	0.98	
FY4ANF030	0.99	0.99	
FY4ANF036	1.00	1.00	
CAP**3014A**	0.99	0.97	58CV(A,X)070-12
CAP**3614A**	0.99	0.94	58CV(A,X)070-12
CNPH*3017A**	0.99	0.94	58CV(A,X)070-12
CNPH*3617A**	0.99	0.94	58CV(A,X)070-12
CNPV*3014A**	0.99	0.97	58CV(A,X)070-12
CSPH*3012A**	0.99	0.95	58CV(A,X)070-12
CSPH*3612A**	1.01	0.96	58CV(A,X)070-12
CAP**3017A**	0.99	0.94	58CV(A,X)090-16
CAP**3617A**	0.99	0.95	58CV(A,X)090-16
CNPH*3017A**	0.99	0.94	58CV(A,X)090-16
CNPH*3617A**	0.99	0.94	58CV(A,X)090-16
CNPV*3017A**	0.99	0.94	58CV(A,X)090-16
CNPV*3617A**	0.99	0.94	58CV(A,X)090-16
CSPH*3012A**	0.99	0.95	58CV(A,X)090-16
CSPH*3612A**	1.01	0.95	58CV(A,X)090-16

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**3621A**	0.99	0.95	58CV(A,X)110-20
CNPH*3017A**	0.99	0.95	58CV(A,X)110-20
CNPH*3617A**	0.99	0.95	58CV(A,X)110-20
CNPV*3621A**	0.99	0.95	58CV(A,X)110-20
CSPH*3012A**	0.99	0.95	58CV(A,X)110-20
CSPH*3612A**	1.01	0.95	58CV(A,X)110-20
CNPH*3017A**	0.99	0.95	58CV(A,X)135-22
CNPH*3617A**	0.99	0.95	58CV(A,X)135-22
CSPH*3012A**	0.99	0.95	58CV(A,X)135-22
CSPH*3612A**	1.01	0.95	58CV(A,X)135-22
CNPH*3017A**	0.99	0.95	58CV(A,X)155-22
CNPH*3617A**	0.99	0.95	58CV(A,X)155-22
CSPH*3012A**	0.99	0.95	58CV(A,X)155-22
CSPH*3612A**	1.01	0.95	58CV(A,X)155-22
CNPH*3017A**	0.99	0.94	58MVB040-14
CNPH*3617A**	0.99	0.94	58MVB040-14
CSPH*3012A**	0.99	0.95	58MVB040-14
CSPH*3612A**	1.01	0.96	58MVB040-14
CAP**3017A**	0.99	0.94	58MVB060-14
CAP**3617A**	0.99	0.94	58MVB060-14
CNPH*3017A**	0.99	0.94	58MVB060-14
CNPH*3617A**	0.99	0.94	58MVB060-14
CNPV*3017A**	0.99	0.94	58MVB060-14
CNPV*3617A**	0.99	0.94	58MVB060-14
CSPH*3012A**	0.99	0.95	58MVB060-14
CSPH*3612A**	1.01	0.95	58MVB060-14
CAP**3621A**	0.99	0.95	58MVB080-14
CNPH*3017A**	0.99	0.94	58MVB080-14
CNPH*3617A**	0.99	0.94	58MVB080-14
CNPV*3621A**	0.99	0.94	58MVB080-14
CSPH*3012A**	0.99	0.95	58MVB080-14
CSPH*3612A**	1.01	0.96	58MVB080-14
CAP**3017A**	0.99	0.94	58MVB080-20
CNPH*3017A**	0.99	0.94	58MVB080-20
CNPH*3617A**	0.99	0.94	58MVB080-20
CNPV*3621A**	0.99	0.94	58MVB080-20
CSPH*3012A**	0.99	0.95	58MVB080-20
CSPH*3612A**	1.01	0.96	58MVB080-20
CAP**3621A**	0.99	0.95	58MVB100-20
CNPH*3017A**	0.99	0.94	58MVB100-20
CNPH*3617A**	0.99	0.94	58MVB100-20
CNPV*3621A**	0.99	0.94	58MVB100-20
CSPH*3012A**	0.99	0.95	58MVB100-20
CSPH*3612A**	1.01	0.95	58MVB100-20
CNPH*3017A**	0.99	0.94	58MVB120-20
CNPH*3617A**	0.99	0.94	58MVB120-20
CSPH*3012A**	0.99	0.95	58MVB120-20
CSPH*3612A**	1.01	0.95	58MVB120-20

**24APA3**

See notes on pg. 23

# DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																		
		75			85			95			105			115			125			
		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 Sys-tem KW* ‡	
CFM	EWB	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	
<b>24APAS36 Outdoor Section With CAR3617 Indoor Section</b>																				
1050	72	41.68	21.82	2.48	39.85	21.11	2.79	37.92	20.38	3.14	35.90	19.62	3.52	33.70	18.81	3.95	31.31	17.94	4.41	
	67	37.97	26.68	2.48	36.26	25.95	2.79	34.46	25.20	3.14	32.57	24.42	3.52	30.54	23.59	3.95	28.35	22.71	4.42	
	62	34.66	31.52	2.48	33.12	30.78	2.80	31.51	30.00	3.14	29.84	29.16	3.53	28.15	28.15	3.96	26.50	26.50	4.42	
	57	33.65	33.65	2.48	32.40	32.40	2.80	31.09	31.09	3.14	29.68	29.68	3.53	28.16	28.16	3.96	26.50	26.50	4.42	
1200	72	42.39	22.82	2.54	40.49	22.10	2.85	38.49	21.36	3.19	36.39	20.59	3.58	34.13	19.77	4.00	31.65	18.89	4.46	
	67	38.65	28.29	2.54	36.87	27.56	2.85	35.00	26.79	3.19	33.04	26.01	3.58	30.95	25.17	4.01	28.70	24.28	4.47	
	62	35.45	33.74	2.54	33.89	32.95	2.85	32.30	32.08	3.20	30.79	30.79	3.58	29.18	29.18	4.01	27.41	27.41	4.47	
	57	35.02	35.02	2.54	33.69	33.69	2.85	32.29	32.29	3.20	30.80	30.80	3.58	29.19	29.19	4.01	27.42	27.42	4.47	
1350	72	42.91	23.75	2.59	40.96	23.03	2.90	38.89	22.28	3.25	36.75	21.51	3.63	34.42	20.68	4.06	31.87	19.78	4.52	
	67	39.15	29.82	2.59	37.32	29.08	2.90	35.41	28.32	3.25	33.41	27.53	3.63	31.27	26.68	4.06	28.97	25.75	4.53	
	62	36.20	35.76	2.59	34.75	34.75	2.91	33.27	33.27	3.25	31.70	31.70	3.64	30.01	30.01	4.06	28.15	28.15	4.53	
	57	36.16	36.16	2.59	34.76	34.76	2.91	33.27	33.27	3.25	31.71	31.71	3.64	30.01	30.01	4.06	28.15	28.15	4.53	

**24APAS**

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**3617A**	1.00	1.00	
CAP**3614A**	0.99	0.99	
CAP**3621A**	1.00	1.00	
CAP**4221A**	1.01	1.01	
CAP**4224A**	1.01	1.01	
CNPF*3618A**	0.99	0.99	
CNPH*3617A**	0.99	0.99	
CNPH*4221A**	1.01	1.01	
CNPV*3617A**	0.99	0.99	
CNPV*3621A**	0.99	0.99	
CNPV*4221A**	1.01	1.01	
CSPH*3612A**	1.02	1.02	
CSPH*4212A**	1.02	1.02	
FE4ANB006	1.04	0.95	
FE4ANF002	0.99	0.97	
FE4ANF003	0.99	0.95	
FE4ANF005	1.03	0.94	
FF1ENP036	0.99	0.99	
FV4BNB006	1.04	0.95	
FV4BNF002	0.99	0.97	
FV4BNF003	0.99	0.95	
FV4BNF005	1.03	0.94	
FX4CN(B,F)036	1.01	0.97	
FX4CN(B,F)042	1.03	0.98	
FY4ANF036	0.99	1.00	
FY4ANF042	1.01	1.01	
CAP**3614A**	0.98	0.97	58CV(A,X)070-12
CNPH*3617A**	0.98	0.97	58CV(A,X)070-12
CNPH*4221A**	0.99	0.95	58CV(A,X)070-12
CSPH*3612A**	1.01	0.96	58CV(A,X)070-12
CSPH*4212A**	1.01	0.97	58CV(A,X)070-12
CAP**3617A**	0.99	0.95	58CV(A,X)090-16
CNPH*3617A**	0.98	0.97	58CV(A,X)090-16
CNPH*4221A**	1.00	0.94	58CV(A,X)090-16
CNPV*3617A**	0.98	0.97	58CV(A,X)090-16
CSPH*3612A**	1.01	0.96	58CV(A,X)090-16
CSPH*4212A**	1.01	0.95	58CV(A,X)090-16
CAP**3621A**	0.99	0.95	58CV(A,X)110-20
CAP**4221A**	0.99	0.95	58CV(A,X)110-20
CNPH*3617A**	0.99	0.97	58CV(A,X)110-20
CNPH*4221A**	1.00	0.94	58CV(A,X)110-20
CNPV*3621A**	0.99	0.97	58CV(A,X)110-20
CNPV*4221A**	1.00	0.94	58CV(A,X)110-20
CSPH*3612A**	1.01	0.97	58CV(A,X)110-20
CSPH*4212A**	1.02	0.96	58CV(A,X)110-20
CAP**4224A**	0.99	0.95	58CV(A,X)135-22
CNPH*3617A**	0.99	0.97	58CV(A,X)135-22

Cooling Indoor Model	Capacity	Power	Furnace Model
CNPH*4221A**	1.00	0.94	58CV(A,X)135-22
CSPH*3612A**	1.01	0.97	58CV(A,X)135-22
CSPH*4212A**	1.02	0.96	58CV(A,X)135-22
CAP**4224A**	1.00	0.94	58CV(A,X)155-22
CNPH*3617A**	0.99	0.95	58CV(A,X)155-22
CNPH*4221A**	1.00	0.94	58CV(A,X)155-22
CSPH*3612A**	1.01	0.95	58CV(A,X)155-22
CSPH*4212A**	1.02	0.96	58CV(A,X)155-22
CAP**4224A**	0.99	0.97	58MVB040-14
CNPH*3617A**	0.98	0.97	58MVB040-14
CNPH*4221A**	0.99	0.95	58MVB040-14
CSPH*3612A**	1.01	0.96	58MVB040-14
CSPH*4212A**	1.01	0.96	58MVB040-14
CAP**3617A**	0.98	0.97	58MVB060-14
CNPH*3617A**	0.99	0.95	58MVB060-14
CNPV*3617A**	0.98	0.97	58MVB060-14
CSPH*3612A**	1.01	0.96	58MVB060-14
CSPH*4212A**	1.01	0.97	58MVB060-14
CAP**3621A**	0.98	0.97	58MVB080-14
CAP**4221A**	0.99	0.97	58MVB080-14
CNPH*3617A**	0.98	0.96	58MVB080-14
CNPH*4221A**	0.99	0.95	58MVB080-14
CNPV*3621A**	0.98	0.96	58MVB080-14
CNPV*4221A**	0.99	0.95	58MVB080-14
CSPH*3612A**	1.00	0.98	58MVB080-14
CSPH*4212A**	1.01	0.96	58MVB080-14
CAP**3621A**	0.99	0.97	58MVB080-20
CAP**4221A**	0.99	0.95	58MVB080-20
CNPH*3617A**	0.98	0.97	58MVB080-20
CNPH*4221A**	0.99	0.95	58MVB080-20
CNPV*3621A**	0.98	0.97	58MVB080-20
CNPV*4221A**	0.99	0.95	58MVB080-20
CSPH*3612A**	1.01	0.96	58MVB080-20
CSPH*4212A**	1.01	0.97	58MVB080-20
CAP**3621A**	0.99	0.95	58MVB100-20
CAP**4221A**	0.99	0.95	58MVB100-20
CNPH*3617A**	0.98	0.97	58MVB100-20
CNPH*4221A**	1.00	0.96	58MVB100-20
CNPV*3621A**	0.98	0.97	58MVB100-20
CNPV*4221A**	1.00	0.96	58MVB100-20
CSPH*3612A**	1.01	0.96	58MVB100-20
CSPH*4212A**	1.01	0.97	58MVB100-20
CAP**4224A**	0.99	0.95	58MVB120-20
CNPH*3617A**	0.98	0.97	58MVB120-20
CNPH*4221A**	0.99	0.93	58MVB120-20
CSPH*3612A**	1.01	0.96	58MVB120-20
CSPH*4212A**	1.01	0.97	58MVB120-20

See notes on pg. 23

# DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
		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 Sys-tem KW*‡
CFM	EWB	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡	Total	Sens ‡
<b>24APA342A30 Outdoor Section With CAP**4221A** Indoor Section</b>																			
1225	72	49.87	25.92	3.03	47.73	25.09	3.36	45.47	24.22	3.72	43.08	23.32	4.12	40.49	22.35	4.55	37.63	21.30	5.03
	67	45.39	31.55	3.01	43.41	30.71	3.33	41.33	29.83	3.69	39.13	28.91	4.09	36.75	27.93	4.53	34.14	26.88	5.01
	62	41.43	37.19	2.98	39.65	36.34	3.31	37.79	35.44	3.67	35.83	34.49	4.07	33.79	33.42	4.51	31.78	31.78	5.00
	57	40.04	40.04	2.98	38.62	38.62	3.30	37.11	37.11	3.67	35.49	35.49	4.07	33.74	33.74	4.51	31.78	31.78	5.00
1400	72	50.78	27.08	3.10	48.54	26.24	3.43	46.19	25.36	3.79	43.70	24.44	4.19	41.01	23.46	4.62	38.04	22.39	5.09
	67	46.24	33.42	3.07	44.17	32.56	3.40	42.00	31.66	3.76	39.70	30.73	4.16	37.25	29.75	4.60	34.56	28.68	5.07
	62	42.38	39.77	3.05	40.55	38.88	3.38	38.67	37.91	3.74	36.79	36.79	4.14	34.95	34.95	4.59	32.86	32.86	5.07
	57	41.69	41.69	3.05	40.17	40.17	3.38	38.55	38.55	3.74	36.83	36.83	4.14	34.95	34.95	4.59	32.86	32.86	5.07
1575	72	51.49	28.20	3.17	49.17	27.35	3.50	46.73	26.45	3.86	44.17	25.52	4.25	41.40	24.53	4.69	38.34	23.45	5.16
	67	46.91	35.23	3.14	44.76	34.35	3.47	42.52	33.46	3.83	40.17	32.52	4.23	37.66	31.52	4.67	34.90	30.43	5.14
	62	43.25	42.19	3.12	41.37	41.37	3.45	39.73	39.73	3.81	37.91	37.91	4.21	35.93	35.93	4.66	33.73	33.73	5.13
	57	43.06	43.06	3.12	41.45	41.45	3.45	39.74	39.74	3.81	37.92	37.92	4.21	35.94	35.94	4.66	33.73	33.73	5.13

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**4221A**	1.00	1.00	
CAP**4224A**	1.00	1.00	
CAP**4817A**	1.02	1.02	
CAP**4821A**	1.02	1.02	
CAP**4824A**	1.02	1.02	
CNPF*4818A**	1.01	1.01	
CNPH*4221A**	1.00	1.00	
CNPH*4821A**	1.02	1.02	
CNPV*4221A**	1.00	1.00	
CNPV*4821A**	1.02	1.02	
CNPV*4824A**	1.02	1.02	
CSPH*4212A**	1.02	1.02	
CSPH*4812A**	1.04	1.04	
FE4ANB006	1.05	0.96	
FE4ANF003	0.99	0.95	
FE4ANF005	1.04	0.97	
FV4BNB006	1.05	0.96	
FV4BNF003	0.99	0.95	
FV4BNF005	1.04	0.97	
FX4CN(B,F)042	1.02	0.98	
FX4CN(B,F)048	1.05	0.98	
FY4ANF042	1.01	1.01	
FY4ANF048	1.04	1.04	
CNPH*4221A**	0.99	0.97	58CV(A,X)070-12
CNPH*4821A**	1.01	0.99	58CV(A,X)070-12
CSPH*4212A**	1.01	0.99	58CV(A,X)070-12
CSPH*4812A**	1.01	0.99	58CV(A,X)070-12
CAP**4817A**	1.01	0.97	58CV(A,X)090-16
CNPH*4221A**	0.99	0.95	58CV(A,X)090-16
CNPH*4821A**	1.01	0.97	58CV(A,X)090-16
CSPH*4212A**	1.01	0.97	58CV(A,X)090-16
CSPH*4812A**	1.01	0.97	58CV(A,X)090-16
CAP**4221A**	0.99	0.95	58CV(A,X)110-20
CAP**4821A**	1.01	0.97	58CV(A,X)110-20
CNPH*4221A**	1.00	0.96	58CV(A,X)110-20
CNPH*4821A**	1.01	0.97	58CV(A,X)110-20
CNPV*4221A**	1.00	0.94	58CV(A,X)110-20
CNPV*4821A**	1.01	0.97	58CV(A,X)110-20
CSPH*4212A**	1.01	0.97	58CV(A,X)110-20
CSPH*4812A**	1.01	0.97	58CV(A,X)110-20
CAP**4224A**	0.99	0.95	58CV(A,X)135-22
CAP**4824A**	1.01	0.95	58CV(A,X)135-22
CNPH*4221A**	1.00	0.94	58CV(A,X)135-22
CNPH*4821A**	1.01	0.95	58CV(A,X)135-22
CNPV*4824A**	1.01	0.95	58CV(A,X)135-22
CSPH*4212A**	1.01	0.95	58CV(A,X)135-22
CSPH*4812A**	1.02	0.96	58CV(A,X)135-22
CAP**4224A**	0.99	0.95	58CV(A,X)155-22
CAP**4824A**	1.01	0.95	58CV(A,X)155-22
CNPH*4221A**	1.00	0.94	58CV(A,X)155-22
CNPH*4821A**	1.01	0.95	58CV(A,X)155-22
CNPV*4824A**	1.01	0.95	58CV(A,X)155-22
CSPH*4212A**	1.01	0.95	58CV(A,X)155-22
CSPH*4812A**	1.01	0.95	58CV(A,X)155-22

See notes on pg. 23

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**4224A**	0.99	0.97	58MVB040-14
CAP**4824A**	1.00	0.98	58MVB040-14
CNPH*4221A**	0.99	0.97	58MVB040-14
CNPH*4821A**	1.00	0.96	58MVB040-14
CNPV*4824A**	1.00	0.98	58MVB040-14
CSPH*4212A**	1.00	0.98	58MVB040-14
CSPH*4812A**	1.01	0.99	58MVB040-14
CAP**4817A**	1.01	0.97	58MVB060-14
CNPH*4221A**	0.99	0.95	58MVB060-14
CNPH*4821A**	1.00	0.96	58MVB060-14
CSPH*4212A**	1.01	0.97	58MVB060-14
CSPH*4812A**	1.01	0.97	58MVB060-14
CAP**4221A**	0.99	0.97	58MVB080-14
CAP**4821A**	1.00	0.98	58MVB080-14
CNPH*4221A**	0.99	0.97	58MVB080-14
CNPH*4821A**	1.00	0.98	58MVB080-14
CNPV*4221A**	0.99	0.97	58MVB080-14
CNPV*4821A**	1.00	0.98	58MVB080-14
CSPH*4212A**	1.00	0.98	58MVB080-14
CSPH*4812A**	1.01	0.99	58MVB080-14
CAP**4221A**	0.99	0.97	58MVB080-20
CAP**4821A**	1.00	0.96	58MVB080-20
CNPH*4221A**	0.99	0.95	58MVB080-20
CNPH*4821A**	1.01	0.97	58MVB080-20
CNPV*4221A**	0.99	0.95	58MVB080-20
CNPV*4821A**	1.01	0.97	58MVB080-20
CSPH*4212A**	1.01	0.97	58MVB080-20
CSPH*4812A**	1.01	0.97	58MVB080-20
CAP**4224A**	0.99	0.95	58MVB100-20
CAP**4824A**	1.00	0.96	58MVB100-20
CNPH*4221A**	1.00	0.96	58MVB100-20
CNPH*4821A**	1.01	0.97	58MVB100-20
CNPV*4221A**	1.00	0.96	58MVB100-20
CNPV*4821A**	1.01	0.97	58MVB100-20
CSPH*4212A**	1.01	0.97	58MVB100-20
CSPH*4812A**	1.01	0.97	58MVB100-20
CAP**4224A**	0.99	0.95	58MVB120-20
CAP**4824A**	1.00	0.96	58MVB120-20
CNPH*4221A**	0.99	0.95	58MVB120-20
CNPH*4821A**	1.00	0.96	58MVB120-20
CNPV*4824A**	1.00	0.96	58MVB120-20
CSPH*4212A**	1.01	0.97	58MVB120-20
CSPH*4812A**	1.01	0.97	58MVB120-20

24APA3

# 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**
		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡		Total	Sens ‡	
<b>24APA348GKA Outdoor Section With CAP**4821A** Indoor Section</b>																			
1460	72	56.14	29.35	3.34	53.69	28.40	3.76	51.09	27.42	4.24	48.33	26.38	4.78	45.35	25.28	5.41	42.35	24.18	5.98
	67	50.91	35.76	3.35	48.63	34.80	3.77	46.22	33.79	4.25	43.65	32.73	4.81	40.88	31.60	5.47	37.91	30.42	6.07
	62	46.31	42.19	3.35	44.24	41.20	3.78	42.07	40.15	4.26	39.80	39.02	4.83	37.56	37.56	5.50	35.26	35.26	6.11
	57	44.91	44.91	3.36	43.26	43.26	3.78	41.50	41.50	4.27	39.61	39.61	4.83	37.57	37.57	5.50	35.34	35.34	6.11
1650	72	57.22	30.71	3.41	54.66	29.75	3.82	51.96	28.75	4.30	49.09	27.69	4.84	46.01	26.58	5.46	42.94	25.48	6.02
	67	51.89	37.91	3.41	49.51	36.93	3.83	47.00	35.90	4.31	44.33	34.83	4.87	41.47	33.89	5.52	38.50	32.51	6.14
	62	47.36	45.09	3.42	45.25	44.04	3.84	43.03	43.03	4.32	41.07	41.07	4.88	38.90	38.90	5.55	36.51	36.51	6.15
	57	46.71	46.71	3.42	44.95	44.95	3.84	43.08	43.08	4.33	41.08	41.08	4.88	38.90	38.90	5.55	36.51	36.51	6.16
1850	72	58.04	31.99	3.47	55.40	31.01	3.88	52.61	29.99	4.36	49.66	28.93	4.90	46.49	27.80	5.51	43.36	26.69	6.05
	67	52.63	39.95	3.47	50.17	38.95	3.89	47.58	37.91	4.38	44.85	36.83	4.93	41.92	35.67	5.58	38.91	34.47	6.19
	62	48.32	47.72	3.48	46.35	46.35	3.90	44.40	44.40	4.39	42.29	42.29	4.94	40.01	40.01	5.60	37.55	37.55	6.19
	57	48.21	48.21	3.48	46.37	46.37	3.90	44.40	44.40	4.39	42.30	42.30	4.94	40.01	40.01	5.60	37.55	37.55	6.20

**24APA3**

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**4821A**	1.00	1.00	
CAP**4817A**	0.99	0.99	
CAP**4824A**	1.00	1.00	
CAP**6021A**	1.03	1.03	
CAP**6024A**	1.03	1.03	
CNPF*4818A**	0.98	0.98	
CNPH*4821A**	1.00	1.00	
CNPH*6024A**	1.03	1.03	
CNPV*4821A**	1.00	1.00	
CNPV*4824A**	1.01	1.01	
CNPV*6024A**	1.03	1.03	
CSPH*4812A**	1.01	1.01	
CSPH*6012A**	1.03	1.03	
FE4ANB006	1.03	0.99	
FE4ANF005	1.02	1.00	
FV4BNB006	1.03	0.99	
FV4BNF005	1.02	1.00	
FX4CN(B,F)048	1.02	1.00	
FX4CN(B,F)060	1.06	1.02	
FY4ANB060	1.02	1.02	
FY4ANF048	1.01	1.01	
CAP**4817A**	0.99	0.99	58CV(A,X)090-16
CNPH*4821A**	0.99	0.97	58CV(A,X)090-16
CNPH*6024A**	1.01	0.99	58CV(A,X)090-16
CSPH*4812A**	1.00	0.98	58CV(A,X)090-16
CSPH*6012A**	1.01	0.99	58CV(A,X)090-16
CAP**4821A**	0.99	0.97	58CV(A,X)110-20
CAP**6021A**	1.01	0.99	58CV(A,X)110-20
CNPH*4821A**	0.99	0.97	58CV(A,X)110-20
CNPH*6024A**	1.01	0.99	58CV(A,X)110-20
CNPV*4821A**	0.99	0.97	58CV(A,X)110-20
CSPH*4812A**	1.00	0.98	58CV(A,X)110-20
CSPH*6012A**	1.01	0.99	58CV(A,X)110-20

Cooling Indoor Model	Capacity	Power	Furnace Model
CAP**4824A**	0.99	0.97	58CV(A,X)135-22
CAP**6024A**	1.01	0.99	58CV(A,X)135-22
CNPH*4821A**	0.99	0.97	58CV(A,X)135-22
CNPH*6024A**	1.01	0.99	58CV(A,X)135-22
CNPV*4824A**	0.99	0.97	58CV(A,X)135-22
CNPV*6024A**	1.01	0.99	58CV(A,X)135-22
CSPH*4812A**	1.00	0.98	58CV(A,X)135-22
CSPH*6012A**	1.01	0.97	58CV(A,X)135-22
CAP**4824A**	0.99	0.97	58CV(A,X)155-22
CAP**6024A**	1.01	0.97	58CV(A,X)155-22
CNPH*4821A**	0.99	0.97	58CV(A,X)155-22
CNPH*6024A**	1.01	0.97	58CV(A,X)155-22
CNPV*4824A**	0.99	0.97	58CV(A,X)155-22
CNPV*6024A**	1.01	0.97	58CV(A,X)155-22
CSPH*4812A**	1.00	0.98	58CV(A,X)155-22
CSPH*6012A**	1.02	0.98	58CV(A,X)155-22
CAP**4821A**	0.98	0.98	58MVB080-20
CAP**6021A**	1.01	0.99	58MVB080-20
CNPH*4821A**	0.99	0.99	58MVB080-20
CNPH*6024A**	1.00	0.98	58MVB080-20
CNPV*4821A**	0.99	0.99	58MVB080-20
CSPH*4812A**	0.99	0.99	58MVB080-20
CSPH*6012A**	1.01	0.99	58MVB080-20
CAP**4824A**	0.98	0.98	58MVB100-20
CAP**6024A**	1.01	0.99	58MVB100-20
CNPH*4821A**	0.99	0.99	58MVB100-20
CNPH*6024A**	1.01	0.99	58MVB100-20
CNPV*4821A**	0.99	0.99	58MVB100-20
CSPH*4812A**	1.00	1.00	58MVB100-20
CSPH*6012A**	1.01	0.99	58MVB100-20
CAP**4824A**	0.98	0.98	58MVB120-20
CAP**6024A**	1.01	0.99	58MVB120-20
CNPH*4821A**	0.99	0.99	58MVB120-20
CNPH*6024A**	1.00	0.98	58MVB120-20
CNPV*4824A**	0.99	0.99	58MVB120-20
CNPV*6024A**	1.00	0.98	58MVB120-20
CSPH*4812A**	0.99	0.97	58MVB120-20
CSPH*6012A**	1.01	0.99	58MVB120-20

See notes on pg. 23

# DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																							
CFM	EWB	75				85				95				105				115				125			
		Capacity MBtuht†		Total Sys-tem KW* ‡	Capacity MBtuht	Total Sys-tem KW* ‡	Capacity MBtuht†		Total Sys-tem KW* ‡	Capacity MBtuht	Total Sys-tem KW* ‡	Capacity MBtuht†		Total Sys-tem KW* ‡	Capacity MBtuht	Total Sys-tem KW* ‡	Capacity MBtuht†		Total Sys-tem KW* ‡	Capacity MBtuht†	Total Sys-tem KW* ‡				
		Total	Sens ‡				Total	Sens ‡				Total	Sens ‡				Total	Sens ‡				Total	Sens ‡	Total	Sens ‡
<b>24APA380A30 Outdoor Section With CAP**6024A** Indoor Section</b>																									
1750	72	70.78	36.79	4.41	67.48	35.51	4.87	63.99	34.17	5.37	60.30	32.78	5.92	56.30	31.30	6.51	51.84	29.67	7.14						
	67	64.79	44.95	4.34	61.77	43.66	4.80	58.59	42.32	5.30	55.23	40.92	5.85	51.60	39.44	6.45	47.60	37.83	7.09						
	62	59.34	53.06	4.29	56.63	51.77	4.74	53.79	50.41	5.24	50.83	48.97	5.80	47.71	47.35	6.40	44.65	44.65	7.05						
	57	57.21	57.21	4.27	55.06	55.06	4.73	52.77	52.77	5.23	50.33	50.33	5.79	47.66	47.66	6.40	44.65	44.65	7.05						
2000	72	72.06	38.51	4.52	68.58	37.19	4.97	64.94	35.84	5.47	61.10	34.42	6.02	56.93	32.91	6.61	52.31	31.26	7.25						
	67	66.01	47.71	4.45	62.83	46.39	4.91	59.50	45.02	5.41	56.00	43.60	5.96	52.24	42.10	6.55	48.09	40.45	7.19						
	62	60.66	56.85	4.40	57.86	55.48	4.85	54.96	54.00	5.35	52.12	52.12	5.91	49.25	49.25	6.51	46.01	46.01	7.17						
	57	59.55	59.55	4.39	57.22	57.22	4.84	54.76	54.76	5.35	52.13	52.13	5.91	49.25	49.25	6.51	46.01	46.01	7.17						
2250	72	72.99	40.12	4.62	69.39	38.79	5.08	65.62	37.41	5.58	61.65	35.98	6.12	57.36	34.44	6.71	52.60	32.77	7.34						
	67	66.89	50.33	4.56	63.60	48.99	5.01	60.16	47.61	5.51	56.56	46.17	6.06	52.68	44.63	6.65	48.42	42.92	7.29						
	62	61.79	60.33	4.50	58.93	58.93	4.96	56.36	56.36	5.47	53.57	53.57	6.02	50.52	50.52	6.62	47.08	47.08	7.28						
	57	61.46	61.46	4.50	58.99	58.99	4.96	56.37	56.37	5.47	53.58	53.58	6.02	50.52	50.52	6.62	47.08	47.08	7.28						

Cooling Indoor Model	Capacity	Power	Furnace Model
*CAP**6024A**	1.00	1.00	
CAP**6021A**	0.99	1.02	
CNPH*6024A**	1.00	1.00	
CNPV*6024A**	1.00	1.00	
CSPH*6012A**	1.01	1.04	
FE4ANB006	1.01	1.01	
FV4BNB006	1.01	1.04	
FX4CN(B,F)060	1.02	1.05	
FY4ANB060	0.99	0.99	
CSPH*6012A**	0.99	1.02	58CV(A,X)110-20
CAP**6024A**	0.99	0.99	58CV(A,X)135-22
CNPH*6024A**	0.98	1.01	58CV(A,X)135-22
CNPV*6024A**	0.98	0.98	58CV(A,X)135-22

Cooling Indoor Model	Capacity	Power	Furnace Model
CSPH*6012A**	0.99	0.99	58CV(A,X)135-22
CAP**6024A**	0.99	1.02	58CV(A,X)155-22
CNPH*6024A**	0.99	0.99	58CV(A,X)155-22
CNPV*6024A**	0.99	1.02	58CV(A,X)155-22
CSPH*6012A**	1.00	1.03	58CV(A,X)155-22
CAP**6021A**			58MVB080-20
CNPH*6024A**			58MVB080-20
CSPH*6012A**			58MVB100-20
CAP**6021A**			58MVB100-20
CNPH*6024A**			58MVB100-20
CSPH*6012A**			58MVB100-20
CAP**6024A**			58MVB120-20
CNPH*6024A**			58MVB120-20
CNPV*6024A**			58MVB120-20
CSPH*6012A**			58MVB120-20

24APA3

**NOTE:** When the required data fall 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 system kW is total of indoor and outdoor unit kilowatts.

† 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).

When the required data fall between the published data, interpolation may be performed.

# GUIDE SPECIFICATIONS

## GENERAL

### System Description

Outdoor-mounted, air-cooled, split-system air conditioner 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 210.
- Unit will be certified for capacity and efficiency, and listed in the latest ARI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils will be leak tested and pressure 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 air conditioner 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, including louvered coil guard, 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 AIR CONDITIONER

24APA3

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 coated steel wire safety guards.

### Compressor

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

### Condenser Coil

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

### Refrigeration Components

- Refrigeration circuit components will include liquid-line back-seating shutoff valve with sweat connections, vapor-line back-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, and compressor oil.
- Unit will be equipped with high-pressure switch, low pressure switch and filter drier for Puron refrigerant.

### Operating Characteristics

- The capacity of the unit will meet or exceed \_\_\_\_\_ Btuh at a suction temperature of \_\_\_\_\_ °F. 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.
- 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.