

**24ANA1**  
**Infinity™ 21 Series Air Conditioner**  
**with Puron® Refrigerant**  
**2 Through 5 Nominal Tons (Size 24 To 60)**



Turn to the Experts.™

## Product Data



Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24ANA1 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

- 14.5-21 SEER/11.1-15 EER

#### New Aesthetic Design

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

#### Extra Quiet Operation

- Silencer System II™ for sound as low as 72 dBA
  - Quiet mount split post compressor grommets
  - Exclusive Silencer Top design
  - Electronic ECM ball bearing outdoor condenser fan motor
  - Forward-swept condenser fan blade
  - Compressor sound hood
  - Laminated steel compressor mounting plate

#### Reliability, Quality and Toughness

- Two-Stage scroll compressor
- Field-installed 16 cu. in. filter drier
- Back-seating service valves
- High pressure switch
- Low pressure switch
- Internal pressure relief valve
- Internal thermal overload

#### Controls and Diagnostics

- Infinity™ control (Dedicated A,B,C,D only)
- Utility Interface Connection
- Up to 18 point diagnostic capability

#### Applications

- Long line - up to 250 ft. total equivalent length. See Long Line Guideline for more information.
- Low ambient (down to 0°F) with complete Infinity system.

# MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	4	A	N	A	1	2	4	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	N=Infinity Series	A=Puron	1=21 SEER (Nominal)		A=Standard	0=Not Defined	0=Not Defined	3=208/230-1	0, 1, 2...		



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

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

## STANDARD FEATURES

Feature	24-30	36-30	48-30	60-30
Puron® Refrigerant	X	X	X	X
Up to 21 SEER	X			
Infinity Control System Only	X	X	X	X
Two Stage Scroll Compressor	X	X	X	X
Silencer System II™	X	X	X	X
WeatherArmor Ultra™	X	X	X	X
Field-Installed 16 cu. in. Filter Drier	X	X	X	X
Back Seating Service Valves	X	X	X	X
High Pressure Switch	X	X	X	X
Low Pressure Switch	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X
Internal Thermal Overload	X	X	X	X
Long Line capability with hard shut-off TXV	X	X	X	X
Low Ambient capability to 0° F w/Infinity Control	X	X	X	X
Up to 18 point Diagnostics	X	X	X	X
Utility Interface Connection	X	X	X	X

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## PHYSICAL DATA

UNIT SIZE SERIES	24-30	36-30	48-30	60-30
Operating Weight (lb)	330	330	330	350
Shipping Weight (lb)	367	367	367	387
Compressor Type	2-Stage Scroll			
REFRIGERANT	Puron® (R-410A)			
Control	TXV (Puron® Hard Shutoff)			
Charge (lb)	14.0	12.75	11.75	11.75
COND FAN	Forward Swept Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	2850/3250	2900/3450	3300/3800	3800/4250
Motor HP	1/5			
Motor RPM	625/735	582/690	660/765	742/828
COND COIL				
Face Area (Sq ft)	24.40			
Fins per In.	20			
Rows	2			
Circuits	8			
VALVE CONNECT. (In. ID)				
Vapor	7/8			
Liquid	3/8			
REFRIGERANT TUBES* (In. OD)				
Vapor (0-80 Ft Tube Length)	7/8	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.

## VAPOR LINE SIZING AND COOLING CAPACITY LOSS PURON REFRIGERANT 2-STAGE AIR CONDITIONER APPLICATIONS

Unit Nominal Size (Btuh)	Acceptable Liquid Line Diameters (in. O.D.)	Acceptable Vapor Line Diameters (In. O.D.)	Standard Application			Long Line Application Requires Accessories							
			25	50	80	80+	100	125	150	175	200	225	250
24000 2-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	-	-	-	-	-	-	-	-
36000 2-Stage Puron AC		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
48000 2-Stage Puron AC		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 2-Stage Puron AC		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

**NOTE:** Dashes (-) represent insufficient oil return to the compressor in heating mode. Use smaller tube diameter in this area.

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

**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.

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# ACCESSORIES

KIT NUMBER	KIT NAME	24-30	36-30	48-30	60-30
KSASF0101AAA	SUPPORT FEET	X	X	X	X
KSATX0201PUR	TXV (HSO)	X			
KSATX0301PUR	TXV (HSO)		X		
KSATX0401PUR	TXV (HSO)			X	
KSATX0501PUR	TXV (HSO)				X

X = Accessory

Infinity Controls	DESCRIPTION
SYSTXCCUIZ01-A	Infinity System Zone Control User Interface
SYSTXCCUID01-A	Infinity System Non-Zone Control User Interface

Note: These Infinity series units must use “-A” revision or later to operate properly

## ACCESSORY USAGE GUIDELINE

Accessory	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (0°F to 55° F)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 Ft.)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles)
<b>Crankcase Heater</b>	Standard	Standard	Standard
<b>Evaporator Freeze Thermostat</b>	‡ Standard with Infinity Control	No	No
<b>Accumulator</b>	No	No	No
<b>Compressor Start Assist Capacitor and Relay</b>	Not required since compressor always starts unloaded	Not required since compressor always starts unloaded	Not required since compressor always starts unloaded
<b>Low Ambient Control</b>	‡ Standard with Infinity Control	No	No
<b>Support Feet</b>	Recommended	No	Recommended
<b>Liquid Line Solenoid Valve</b>	No	See Long Line Application Guideline	No
<b>Puron Hard Shutoff TXV</b>	Yes†	Yes†	Yes†
<b>Ball Bearing Fan Motor</b>	Standard	Standard	Standard
<b>Winter Start Control</b>	‡ Standard with Infinity Control	No	No

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

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

‡ Standard with Infinity Control (non-communicating thermostat is not allowed except for emergency use).

### Accessory Description and Usage (Listed Alphabetically)

#### 1. 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.

#### 2. 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.

Usage Guideline:

# ELECTRICAL DATA

UNIT SIZE – SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGT H (FT)‡	MAX LENGT H (FT)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60°C	75°C	60°C	75°C	
24–30	208/230–1	253	187	52.0	10.3	1.1	13.9	14	14	57	54	20
36–30				82.0	16.7	2.2	23.1	12	12	54	52	30
48–30				96.0	21.2	2.2	28.7	10	10	69	66	40
60–30				118.0	25.6	2.8	34.8	8	10	89	54	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°F or 167°F) 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 – SERIES	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24–30	72–low stage	51.9	59.9	53.8	67.0	54.7	50.0	45.4
	72–high stage	52.9	64.4	58.8	66.5	55.7	50.5	47.4
36–30	72–low stage	51.4	58.4	57.8	62.5	50.2	53.0	46.9
	73–high stage	52.4	54.4	59.3	60.0	53.7	52.0	44.9
48–30	76–low stage	57.4	51.4	56.8	55.0	56.7	50.0	45.9
	75–high stage	57.4	56.4	72.8	62.5	54.7	53.0	47.9
60–30	76–low stage	49.4	58.4	71.3	65.0	56.7	53.0	47.9
	74–high stage	54.9	59.4	68.3	67.5	57.2	54.0	46.9

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – SERIES	REQUIRED SUBCOOLING (F)
24 – 30	11 HIGH STAGE
36 – 30	11 HIGH STAGE
48 – 30	11 HIGH STAGE
60 – 30	11 HIGH STAGE

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# COMBINATION RATINGS

Unit Size – Series	Indoor Model	ID CFM		Capacity		SEER	EER	Furnace Model
		High	Low	High	Low			
24–30	*FE5ANB004	800	800	26600	20800	21	15	
	FE4ANF002	800	800	25600	20000	19.6	14.1	
	FE4ANF003	800	800	25800	20200	20.2	14.4	
	CAP**2414A**	800	800	25200	19600	18.5	13.5	58CV(A,X)070–12
	CAP**2417A**	800	800	25200	19800	19	13.9	58CV(A,X)090–16
	CAP**2417A**	800	800	25200	19800	18.5	13.7	58MVB060–14
	CAP**3014A**	800	800	25400	19800	18.5	13.7	58CV(A,X)070–12
	CAP**3017A**	800	800	25600	20000	19.5	14.1	58CV(A,X)090–16
	CAP**3017A**	800	800	25600	20000	19	13.9	58MVB060–14
	CAP**3614A**	800	800	25600	20000	18.5	13.7	58CV(A,X)070–12
	CAP**3614A**	800	800	25600	20000	19	14	58CV(A,X)090–16
	CAP**3614A**	800	800	25600	20000	19	13.9	58MVB060–14
	CAP**3617A**	800	800	25600	20000	19	13.8	58CV(A,X)070–12
	CAP**3617A**	800	800	25600	20200	19.5	14.1	58CV(A,X)090–16
	CAP**3617A**	800	800	25600	20000	19.5	14.1	58CV(A,X)110–20
	CAP**3617A**	800	800	25600	20000	19	14	58MVB060–14
	CAP**3617A**	800	800	25600	20000	19	13.9	58MVB080–14
	CAP**3617A**	800	800	25600	20000	19	13.9	58MVB080–20
	CAP**3617A**	800	800	25600	20000	19	14	58MVB100–20
	CAP**3621A**	800	800	25800	20200	19.5	14.2	58CV(A,X)090–16
	CAP**3621A**	800	800	25600	20200	19.5	14.2	58CV(A,X)110–20
	CAP**3621A**	800	800	25800	20200	19.5	14.3	58CV(A,X)135–22
	CAP**3621A**	800	800	25800	20200	20	14.4	58CV(A,X)155–22
	CAP**3621A**	800	800	25600	20000	19	14	58MVB040–14
	CAP**3621A**	800	800	25600	20000	19.5	14.1	58MVB060–14
	CAP**3621A**	800	800	25600	20000	19	14	58MVB080–14
	CAP**3621A**	800	800	25600	20000	19	14	58MVB080–20
	CAP**3621A**	800	800	25600	20200	19.5	14.1	58MVB100–20
	CAP**3621A**	800	800	25600	20200	19.5	14.1	58MVB120–20
	CNPH*2417A**	800	800	25200	19600	18	13.4	58CV(A,X)070–12
	CNPH*2417A**	800	800	25200	19800	18.5	13.6	58CV(A,X)090–16
	CNPH*2417A**	800	800	25200	19600	18.5	13.5	58CV(A,X)110–20
	CNPH*2417A**	800	800	25200	19800	18.5	13.6	58CV(A,X)135–22
	CNPH*2417A**	800	800	25200	19800	18.5	13.7	58CV(A,X)155–22
	CNPH*2417A**	800	800	25200	19600	18	13.4	58MVB040–14
	CNPH*2417A**	800	800	25200	19600	18	13.5	58MVB060–14
	CNPH*2417A**	800	800	25200	19600	18	13.3	58MVB080–14
	CNPH*2417A**	800	800	25200	19600	18	13.4	58MVB080–20
	CNPH*2417A**	800	800	25200	19800	18.5	13.5	58MVB100–20
	CNPH*2417A**	800	800	25200	19800	18.5	13.6	58MVB120–20
	CNPH*3017A**	800	800	25600	20000	18.5	13.8	58CV(A,X)070–12
	CNPH*3017A**	800	800	25600	20000	19.5	14	58CV(A,X)090–16
	CNPH*3017A**	800	800	25600	20000	19	14	58CV(A,X)110–20
	CNPH*3017A**	800	800	25600	20000	19.5	14.1	58CV(A,X)135–22
	CNPH*3017A**	800	800	25600	20000	19.5	14.1	58CV(A,X)155–22
	CNPH*3017A**	800	800	25600	20000	18.5	13.8	58MVB040–14
	CNPH*3017A**	800	800	25600	20000	19	13.9	58MVB060–14
	CNPH*3017A**	800	800	25600	20000	19	13.8	58MVB080–14
	CNPH*3017A**	800	800	25600	20000	19	13.8	58MVB080–20
	CNPH*3017A**	800	800	25600	20000	19	13.9	58MVB100–20
	CNPH*3017A**	800	800	25600	20000	19	14	58MVB120–20
	CNPH*3617A**	800	800	25600	20000	18.5	13.8	58CV(A,X)070–12
	CNPH*3617A**	800	800	25600	20000	19.5	14	58CV(A,X)090–16
	CNPH*3617A**	800	800	25600	20000	19	14	58CV(A,X)110–20
	CNPH*3617A**	800	800	25600	20000	19.5	14.1	58CV(A,X)135–22
	CNPH*3617A**	800	800	25600	20000	19.5	14.1	58CV(A,X)155–22
	CNPH*3617A**	800	800	25600	20000	18.5	13.8	58MVB040–14
	CNPH*3617A**	800	800	25600	20000	19	13.9	58MVB060–14
	CNPH*3617A**	800	800	25600	20000	19	13.8	58MVB080–14
	CNPH*3617A**	800	800	25600	20000	19	13.8	58MVB080–20
	CNPH*3617A**	800	800	25600	20000	19	13.9	58MVB100–20
	CNPH*3617A**	800	800	25600	20000	19	14	58MVB120–20
	CNPV*2414A**	800	800	25200	19600	18	13.4	58CV(A,X)070–12
	CNPV*2417A**	800	800	25200	19800	18.5	13.6	58CV(A,X)090–16
	CNPV*2417A**	800	800	25200	19600	18	13.5	58MVB060–14
	CNPV*3014A**	800	800	25400	19800	18.5	13.6	58CV(A,X)070–12
	CNPV*3017A**	800	800	25600	20000	19.5	14	58CV(A,X)090–16

See notes on pg. 11

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# COMBINATION RATINGS CONTINUED

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Unit Size – Series	Indoor Model	ID CFM		Capacity		SEER	EER	Furnace Model
		High	Low	High	Low			
24-30	CNPV*3017A**	800	800	25600	20000	19	13.9	58MVB060-14
	CNPV*3617A**	800	800	25600	20000	18.5	13.8	58CV(A,X)070-12
	CNPV*3617A**	800	800	25600	20000	19.5	14	58CV(A,X)090-16
	CNPV*3617A**	800	800	25600	20000	19	14	58CV(A,X)110-20
	CNPV*3617A**	800	800	25600	20000	19	13.9	58MVB060-14
	CNPV*3617A**	800	800	25600	20000	19	13.8	58MVB080-14
	CNPV*3617A**	800	800	25600	20000	19	13.8	58MVB080-20
	CNPV*3617A**	800	800	25600	20000	19	13.9	58MVB100-20
	CNPV*3621A**	800	800	25600	20000	19.5	14.1	58CV(A,X)090-16
	CNPV*3621A**	800	800	25600	20000	19	14	58CV(A,X)110-20
	CNPV*3621A**	800	800	25600	20000	19.5	14.1	58CV(A,X)135-22
	CNPV*3621A**	800	800	25600	20000	19.5	14.1	58CV(A,X)155-22
	CNPV*3621A**	800	800	25600	20000	19	13.8	58MVB040-14
	CNPV*3621A**	800	800	25600	20000	19	13.9	58MVB060-14
	CNPV*3621A**	800	800	25600	20000	19	13.8	58MVB080-14
	CNPV*3621A**	800	800	25600	20000	19	13.8	58MVB080-20
	CNPV*3621A**	800	800	25600	20000	19	13.9	58MVB100-20
	CNPV*3621A**	800	800	25600	20000	19	14	58MVB120-20
	CSPH*2412A**	800	800	25600	19800	18.5	13.5	58CV(A,X)070-12
	CSPH*2412A**	800	800	25600	20000	18.5	13.8	58CV(A,X)090-16
	CSPH*2412A**	800	800	25600	20000	18.5	13.6	58CV(A,X)110-20
	CSPH*2412A**	800	800	25600	20000	18.5	13.7	58CV(A,X)135-22
	CSPH*2412A**	800	800	25600	20000	18.5	13.8	58CV(A,X)155-22
	CSPH*2412A**	800	800	25400	19800	18	13.5	58MVB040-14
	CSPH*2412A**	800	800	25600	20000	18.5	13.6	58MVB060-14
	CSPH*2412A**	800	800	25400	19800	18	13.5	58MVB080-14
	CSPH*2412A**	800	800	25600	20000	18.5	13.6	58MVB080-20
	CSPH*2412A**	800	800	25600	20000	18.5	13.7	58MVB100-20
	CSPH*2412A**	800	800	25600	20000	18.5	13.7	58MVB120-20
	CSPH*3012A**	800	800	25600	20000	18.5	13.7	58CV(A,X)070-12
	CSPH*3012A**	800	800	25800	20200	19	14	58CV(A,X)090-16
	CSPH*3012A**	800	800	25600	20000	19	13.9	58CV(A,X)110-20
	CSPH*3012A**	800	800	25800	20200	19	14	58CV(A,X)135-22
	CSPH*3012A**	800	800	25800	20200	19	14	58CV(A,X)155-22
	CSPH*3012A**	800	800	25600	20000	18.5	13.7	58MVB040-14
	CSPH*3012A**	800	800	25600	20000	19	13.8	58MVB060-14
	CSPH*3012A**	800	800	25600	20000	18.5	13.7	58MVB080-14
	CSPH*3012A**	800	800	25600	20000	18.5	13.8	58MVB080-20
	CSPH*3012A**	800	800	25600	20000	19	13.9	58MVB100-20
	CSPH*3012A**	800	800	25600	20000	19	14	58MVB120-20
	CSPH*3612A**	800	800	26000	20200	19	14	58CV(A,X)070-12
	CSPH*3612A**	800	800	26000	20400	19.5	14.3	58CV(A,X)090-16
	CSPH*3612A**	800	800	26000	20400	19.5	14.2	58CV(A,X)110-20
	CSPH*3612A**	800	800	26000	20400	19.5	14.3	58CV(A,X)135-22
	CSPH*3612A**	800	800	26000	20400	20	14.4	58CV(A,X)155-22
	CSPH*3612A**	800	800	26000	20400	19	14	58MVB040-14
	CSPH*3612A**	800	800	26000	20400	19.5	14.1	58MVB060-14
	CSPH*3612A**	800	800	26000	20400	19	14.1	58MVB080-14
CSPH*3612A**	800	800	26000	20400	19	14.1	58MVB080-20	
CSPH*3612A**	800	800	26000	20400	19.5	14.2	58MVB100-20	
CSPH*3612A**	800	800	26000	20400	19.5	14.2	58MVB120-20	
*FE5ANB004	1200	925	38000	27000	20	14.6		
FE4AN(B,F)003	1200	925	36600	25800	18.3	13.7		
FE4AN(B,F)005	1200	925	38000	26600	19	14.3		
FE4ANB006	1200	925	38000	27000	19.5	14.6		
FE4ANF002	1200	925	36200	25600	17.5	13		
CAP**3614A**	1200	925	36200	25800	17.5	12.7	58CV(A,X)070-12	
CAP**3617A**	1200	925	36000	25800	17.5	12.8	58CV(A,X)070-12	
CAP**3617A**	1200	925	36400	25800	18	13.3	58CV(A,X)090-16	
CAP**3617A**	1200	925	36400	25800	18	13.2	58MVB060-14	
CAP**3621A**	1200	925	36400	25800	18.2	13.5	58CV(A,X)110-20	
CAP**3621A**	1200	925	36400	25800	18	13.1	58MVB080-14	
CAP**3621A**	1200	925	36400	25800	18	13.2	58MVB080-20	
CAP**3621A**	1200	925	36400	25800	18	13.4	58MVB100-20	
CAP**4221A**	1200	925	36600	26000	18.5	13.4	58CV(A,X)090-16	
CAP**4221A**	1200	925	36800	26000	18.2	13.6	58CV(A,X)110-20	
CAP**4221A**	1200	925	36600	26000	18	13.1	58MVB080-14	
CAP**4221A**	1200	925	36600	26000	18	13.3	58MVB080-20	
CAP**4221A**	1200	925	36800	26000	18	13.4	58MVB100-20	

See notes on pg. 11



# COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	ID CFM		Capacity		SEER	EER	Furnace Model
		High	Low	High	Low			
36-30	CAP**4224A**	1200	925	36800	26000	18.5	13.8	58CV(A,X)135-22
	CAP**4224A**	1200	925	37000	26200	18.7	13.9	58CV(A,X)155-22
	CAP**4224A**	1200	925	36600	26000	18	13.3	58MVB040-14
	CAP**4224A**	1200	925	36800	26000	18.2	13.6	58MVB120-20
	CAP**4817A**	1200	925	37600	26400	18	13.3	58CV(A,X)070-12
	CAP**4817A**	1200	925	37800	26600	18.5	13.8	58CV(A,X)090-16
	CAP**4817A**	1200	925	37600	26600	18.5	13.7	58CV(A,X)110-20
	CAP**4817A**	1200	925	37600	26600	18.5	13.6	58MVB060-14
	CAP**4817A**	1200	925	37600	26400	18	13.3	58MVB080-14
	CAP**4817A**	1200	925	37600	26400	18	13.5	58MVB080-20
	CAP**4817A**	1200	925	37600	26600	18.5	13.6	58MVB100-20
	CAP**4821A**	1200	925	37400	26400	18.7	13.8	58CV(A,X)090-16
	CAP**4821A**	1200	925	37400	26400	18.5	13.8	58CV(A,X)110-20
	CAP**4821A**	1200	925	37600	26400	19	14	58CV(A,X)135-22
	CAP**4821A**	1200	925	37600	26400	19	14	58CV(A,X)155-22
	CAP**4821A**	1200	925	37200	26400	18	13.4	58MVB040-14
	CAP**4821A**	1200	925	37400	26400	18.5	13.6	58MVB060-14
	CAP**4821A**	1200	925	37200	26400	18.2	13.3	58MVB080-14
	CAP**4821A**	1200	925	37200	26400	18	13.5	58MVB080-20
	CAP**4821A**	1200	925	37400	26400	18.5	13.6	58MVB100-20
	CAP**4821A**	1200	925	37400	26400	18.5	13.7	58MVB100-20
	CAP**4821A**	1200	925	37400	26400	18.5	13.7	58MVB120-20
	CAP**4824A**	1200	925	37400	26400	18.5	13.8	58CV(A,X)110-20
	CAP**4824A**	1200	925	37600	26400	18.7	14	58CV(A,X)135-22
	CAP**4824A**	1200	925	37600	26400	19	14.1	58CV(A,X)155-22
	CAP**4824A**	1200	925	37200	26200	18	13.4	58MVB040-14
	CAP**4824A**	1200	925	37200	26400	18.2	13.4	58MVB080-14
	CAP**4824A**	1200	925	37400	26400	18	13.5	58MVB080-20
	CAP**4824A**	1200	925	37400	26400	18.5	13.7	58MVB100-20
	CAP**4824A**	1200	925	37400	26400	18.5	13.8	58MVB120-20
	CNPH*3617A**	1200	925	36200	25600	17.5	12.8	58CV(A,X)070-12
	CNPH*3617A**	1200	925	36400	25800	18	13.2	58CV(A,X)090-16
	CNPH*3617A**	1200	925	36200	25800	17.8	13.1	58CV(A,X)110-20
	CNPH*3617A**	1200	925	36400	25800	18	13.3	58CV(A,X)135-22
	CNPH*3617A**	1200	925	36400	25800	18	13.4	58CV(A,X)155-22
	CNPH*3617A**	1200	925	36200	25800	17.5	12.8	58MVB040-14
	CNPH*3617A**	1200	925	36200	25800	17.7	13	58MVB060-14
	CNPH*3617A**	1200	925	36200	25800	17.5	12.8	58MVB080-14
	CNPH*3617A**	1200	925	36200	25800	17.5	12.9	58MVB080-20
	CNPH*3617A**	1200	925	36200	25800	17.7	13	58MVB100-20
	CNPH*3617A**	1200	925	36400	25800	18	13.2	58MVB120-20
	CNPH*4221A**	1200	925	36800	26000	18	13.4	58CV(A,X)070-12
	CNPH*4221A**	1200	925	37000	26200	19	13.8	58CV(A,X)090-16
	CNPH*4221A**	1200	925	37000	26200	19	14	58CV(A,X)110-20
	CNPH*4221A**	1200	925	37000	26200	19	14.1	58CV(A,X)135-22
	CNPH*4221A**	1200	925	37200	26200	19	14.2	58CV(A,X)155-22
	CNPH*4221A**	1200	925	36800	26000	18.5	13.5	58MVB040-14
	CNPH*4221A**	1200	925	36800	26200	18.5	13.6	58MVB060-14
	CNPH*4221A**	1200	925	36800	26200	18.5	13.5	58MVB080-14
	CNPH*4221A**	1200	925	36800	26000	18.5	13.5	58MVB080-20
CNPH*4221A**	1200	925	37000	26200	18.5	13.8	58MVB100-20	
CNPH*4221A**	1200	925	37000	26200	18.7	13.9	58MVB120-20	
CNPH*4821A**	1200	925	37200	26400	18	13.4	58CV(A,X)070-12	
CNPH*4821A**	1200	925	37400	26400	18.7	13.8	58CV(A,X)090-16	
CNPH*4821A**	1200	925	37400	26400	18.5	13.8	58CV(A,X)110-20	
CNPH*4821A**	1200	925	37600	26400	19	14	58CV(A,X)135-22	
CNPH*4821A**	1200	925	37600	26400	19	14.1	58CV(A,X)155-22	
CNPH*4821A**	1200	925	37400	26400	18.2	13.5	58MVB040-14	
CNPH*4821A**	1200	925	37400	26400	18.5	13.6	58MVB060-14	
CNPH*4821A**	1200	925	37200	26400	18.5	13.4	58MVB080-14	
CNPH*4821A**	1200	925	37400	26400	18	13.5	58MVB080-20	
CNPH*4821A**	1200	925	37400	26400	18.5	13.7	58MVB100-20	
CNPH*4821A**	1200	925	37400	26400	18.5	13.8	58MVB120-20	
CNPV*3617A**	1200	925	36000	25600	17.5	12.7	58CV(A,X)070-12	
CNPV*3617A**	1200	925	36400	25800	18	13.2	58CV(A,X)090-16	
CNPV*3617A**	1200	925	36200	25800	17.7	13	58MVB060-14	
CNPV*3621A**	1200	925	36400	25800	18	13.2	58CV(A,X)110-20	
CNPV*3621A**	1200	925	36200	25800	17.5	12.8	58MVB080-14	
CNPV*3621A**	1200	925	36200	25800	17.5	13	58MVB080-20	
CNPV*3621A**	1200	925	36200	25800	17.7	13.1	58MVB100-20	
CNPV*4221A**	1200	925	37000	26200	19	14	58CV(A,X)110-20	

24ANA1

See notes on pg. 11

# COMBINATION RATINGS CONTINUED

24ANA1

Unit Size – Series	Indoor Model	ID CFM		Capacity		SEER	EER	Furnace Model
		High	Low	High	Low			
36–30	CNPV*4221A**	1200	925	36800	26200	18.5	13.5	58MVB080–14
	CNPV*4221A**	1200	925	36800	26000	18.5	13.5	58MVB080–20
	CNPV*4221A**	1200	925	37000	26200	18.5	13.8	58MVB100–20
	CNPV*4821A**	1200	925	37400	26400	18.7	13.8	58CV(A,X)090–16
	CNPV*4821A**	1200	925	37400	26400	18.5	13.8	58CV(A,X)110–20
	CNPV*4821A**	1200	925	37600	26400	19	14	58CV(A,X)135–22
	CNPV*4821A**	1200	925	37600	26400	19	14.1	58CV(A,X)155–22
	CNPV*4821A**	1200	925	37400	26400	18.2	13.5	58MVB040–14
	CNPV*4821A**	1200	925	37400	26400	18.5	13.6	58MVB060–14
	CNPV*4821A**	1200	925	37200	26400	18.5	13.4	58MVB080–14
	CNPV*4821A**	1200	925	37400	26400	18.2	13.5	58MVB080–20
	CNPV*4821A**	1200	925	37400	26400	18.5	13.7	58MVB100–20
	CNPV*4821A**	1200	925	37400	26400	18.5	13.8	58MVB120–20
	CNPV*4824A**	1200	925	37400	26400	18.7	13.8	58CV(A,X)110–20
	CNPV*4824A**	1200	925	37600	26400	19	14	58CV(A,X)135–22
	CNPV*4824A**	1200	925	37600	26400	19	14.1	58CV(A,X)155–22
	CNPV*4824A**	1200	925	37400	26400	18.2	13.5	58MVB040–14
	CNPV*4824A**	1200	925	37200	26400	18.5	13.4	58MVB080–14
	CNPV*4824A**	1200	925	37400	26400	18.2	13.5	58MVB080–20
	CNPV*4824A**	1200	925	37400	26400	18.5	13.7	58MVB100–20
	CNPV*4824A**	1200	925	37400	26400	18.5	13.8	58MVB120–20
	CSPH*3612A**	1200	925	37200	26200	18	13.2	58CV(A,X)070–12
	CSPH*3612A**	1200	925	37400	26400	18.5	13.6	58CV(A,X)090–16
	CSPH*3612A**	1200	925	37200	26400	18.2	13.6	58CV(A,X)110–20
	CSPH*3612A**	1200	925	37400	26400	18.5	13.8	58CV(A,X)135–22
	CSPH*3612A**	1200	925	37400	26400	18.7	13.9	58CV(A,X)155–22
	CSPH*3612A**	1200	925	37200	26200	18	13.3	58MVB040–14
	CSPH*3612A**	1200	925	37200	26200	18	13.4	58MVB060–14
	CSPH*3612A**	1200	925	37200	26200	18	13.2	58MVB080–14
	CSPH*3612A**	1200	925	37200	26200	18	13.4	58MVB080–20
	CSPH*3612A**	1200	925	37200	26200	18	13.5	58MVB100–20
	CSPH*3612A**	1200	925	37400	26400	18.5	13.6	58MVB120–20
	CSPH*4212A**	1200	925	37400	26400	18	13.3	58CV(A,X)070–12
	CSPH*4212A**	1200	925	37600	26400	18.7	13.8	58CV(A,X)090–16
	CSPH*4212A**	1200	925	37600	26400	18.5	13.7	58CV(A,X)110–20
	CSPH*4212A**	1200	925	37600	26400	18.7	13.9	58CV(A,X)135–22
	CSPH*4212A**	1200	925	37600	26600	19	14	58CV(A,X)155–22
	CSPH*4212A**	1200	925	37400	26400	18	13.4	58MVB040–14
	CSPH*4212A**	1200	925	37400	26400	18.5	13.6	58MVB060–14
	CSPH*4212A**	1200	925	37400	26400	18	13.3	58MVB080–14
	CSPH*4212A**	1200	925	37400	26400	18	13.5	58MVB080–20
	CSPH*4212A**	1200	925	37600	26400	18.5	13.6	58MVB100–20
	CSPH*4212A**	1200	925	37600	26400	18.5	13.7	58MVB120–20
	CSPH*4812A**	1200	925	37600	26400	18	13.3	58CV(A,X)070–12
	CSPH*4812A**	1200	925	37800	26600	18.7	13.8	58CV(A,X)090–16
	CSPH*4812A**	1200	925	37800	26600	18.5	13.8	58CV(A,X)110–20
	CSPH*4812A**	1200	925	37800	26600	19	14	58CV(A,X)135–22
	CSPH*4812A**	1200	925	37800	26600	19	14.1	58CV(A,X)155–22
CSPH*4812A**	1200	925	37600	26400	18	13.4	58MVB040–14	
CSPH*4812A**	1200	925	37600	26600	18.5	13.6	58MVB060–14	
CSPH*4812A**	1200	925	37600	26400	18	13.4	58MVB080–14	
CSPH*4812A**	1200	925	37600	26400	18	13.5	58MVB080–20	
CSPH*4812A**	1200	925	37600	26600	18.5	13.6	58MVB100–20	
CSPH*4812A**	1200	925	37800	26600	18.5	13.8	58MVB120–20	
*FE4ANB006	1400	1120	48500	35400	17.3	13.4		
FE4AN(B,F)005	1400	1120	47500	34800	16.8	13		
48–30	CAP**4817A**	1400	1120	47000	34600	16	12.3	58CV(A,X)090–16
	CAP**4821A**	1400	1120	46500	34200	16	12.3	58CV(A,X)090–16
	CAP**4821A**	1400	1120	46500	34200	16	12.4	58CV(A,X)110–20
	CAP**4821A**	1400	1120	46500	34200	15.7	12.2	58MVB080–20
	CAP**4821A**	1400	1120	46500	34200	16	12.3	58MVB100–20
	CAP**4824A**	1400	1120	46500	34400	16.5	12.6	58CV(A,X)135–22
	CAP**4824A**	1400	1120	46500	34400	16.5	12.7	58CV(A,X)155–22
	CAP**4824A**	1400	1120	46500	34200	16	12.3	58MVB120–20
	CAP**6021A**	1400	1120	47500	35000	16.5	12.6	58CV(A,X)090–16
	CAP**6021A**	1400	1120	48000	35000	16.5	12.8	58CV(A,X)110–20
	CAP**6021A**	1400	1120	47500	34800	16	12.5	58MVB080–20
	CAP**6021A**	1400	1120	47500	35000	16.5	12.6	58MVB100–20
CAP**6024A**	1400	1120	48000	35000	16.5	12.9	58CV(A,X)135–22	

See notes on pg. 11

# COMBINATION RATINGS CONTINUED

Unit Size – Series	Indoor Model	ID CFM		Capacity		SEER	EER	Furnace Model
		High	Low	High	Low			
48–30	CAP**6024A**	1400	1120	48000	35000	16.7	13	58CV(A,X)155–22
	CAP**6024A**	1400	1120	47500	35000	16.5	12.6	58MVB120–20
	CNPH*4821A**	1400	1120	46500	34400	16	12.4	58CV(A,X)090–16
	CNPH*4821A**	1400	1120	46500	34400	16	12.5	58CV(A,X)110–20
	CNPH*4821A**	1400	1120	46500	34400	16.5	12.6	58CV(A,X)135–22
	CNPH*4821A**	1400	1120	47000	34400	16.5	12.7	58CV(A,X)155–22
	CNPH*4821A**	1400	1120	46500	34200	15.8	12.2	58MVB080–20
	CNPH*4821A**	1400	1120	46500	34400	16	12.3	58MVB100–20
	CNPH*4821A**	1400	1120	46500	34400	16	12.4	58MVB120–20
	CNPH*6024A**	1400	1120	47500	34800	16.5	12.7	58CV(A,X)090–16
	CNPH*6024A**	1400	1120	47500	34800	16.5	12.7	58CV(A,X)110–20
	CNPH*6024A**	1400	1120	47500	35000	16.5	12.9	58CV(A,X)135–22
	CNPH*6024A**	1400	1120	47500	35000	16.8	13	58CV(A,X)155–22
	CNPH*6024A**	1400	1120	47500	34800	16	12.5	58MVB080–20
	CNPH*6024A**	1400	1120	47500	34800	16	12.6	58MVB100–20
	CNPH*6024A**	1400	1120	47500	34800	16.5	12.6	58MVB120–20
	CNPV*4821A**	1400	1120	46500	34400	16	12.3	58CV(A,X)090–16
	CNPV*4821A**	1400	1120	46500	34400	16	12.5	58CV(A,X)110–20
	CNPV*4821A**	1400	1120	46500	34200	15.8	12.2	58MVB080–20
	CNPV*4821A**	1400	1120	46500	34400	16	12.3	58MVB100–20
	CNPV*4824A**	1400	1120	46500	34400	16.5	12.6	58CV(A,X)135–22
	CNPV*4824A**	1400	1120	47000	34400	16.5	12.7	58CV(A,X)155–22
	CNPV*4824A**	1400	1120	46500	34400	16	12.4	58MVB120–20
	CNPV*6024A**	1400	1120	47500	35000	16.5	12.9	58CV(A,X)135–22
	CNPV*6024A**	1400	1120	47500	35000	16.8	13	58CV(A,X)155–22
	CNPV*6024A**	1400	1120	47500	34800	16.5	12.6	58MVB120–20
	CSPH*4812A**	1400	1120	47000	34600	16	12.4	58CV(A,X)090–16
	CSPH*4812A**	1400	1120	47000	34600	16	12.4	58CV(A,X)110–20
	CSPH*4812A**	1400	1120	47000	34600	16.5	12.6	58CV(A,X)135–22
	CSPH*4812A**	1400	1120	47000	34600	16.5	12.7	58CV(A,X)155–22
	CSPH*4812A**	1400	1120	47000	34400	15.8	12.2	58MVB080–20
	CSPH*4812A**	1400	1120	47000	34400	16	12.3	58MVB100–20
	CSPH*4812A**	1400	1120	47000	34600	16	12.4	58MVB120–20
	CSPH*6012A**	1400	1120	48000	35000	16.5	12.7	58CV(A,X)090–16
	CSPH*6012A**	1400	1120	48000	35000	16.5	12.8	58CV(A,X)110–20
	CSPH*6012A**	1400	1120	48000	35200	16.5	13	58CV(A,X)135–22
	CSPH*6012A**	1400	1120	48000	35200	17	13.1	58CV(A,X)155–22
	CSPH*6012A**	1400	1120	47500	35000	16	12.5	58MVB080–20
	CSPH*6012A**	1400	1120	48000	35000	16.5	12.6	58MVB100–20
	CSPH*6012A**	1400	1120	48000	35000	16.5	12.7	58MVB120–20
	*FE4ANB006	1750	1400	58500	42000	16	12.2	
	CAP**6021A**	1750	1400	57000	42000	14.5	11.1	58MVB080–20
	CAP**6021A**	1750	1400	57000	42000	14.8	11.3	58MVB100–20
	CAP**6021A**	1750	1400	57500	42400	15	11.6	58CV(A,X)110–20
	CAP**6024A**	1750	1400	57000	42000	15	11.4	58MVB120–20
	CAP**6024A**	1750	1400	57500	42400	15.2	11.8	58CV(A,X)135–22
	CAP**6024A**	1750	1400	57500	42400	15.5	11.9	58CV(A,X)155–22
	CNPV*6024A**	1750	1400	57000	42000	15	11.4	58MVB120–20
CNPV*6024A**	1750	1400	57500	42400	15.2	11.8	58CV(A,X)135–22	
CNPV*6024A**	1750	1400	57500	42400	15.5	11.9	58CV(A,X)155–22	
CNPH*6024A**	1750	1400	56500	42000	14.5	11.1	58MVB080–20	
CNPH*6024A**	1750	1400	57000	42000	14.7	11.3	58MVB100–20	
CNPH*6024A**	1750	1400	57000	42000	15	11.4	58MVB120–20	
CNPH*6024A**	1750	1400	57000	42000	15	11.6	58CV(A,X)110–20	
CNPH*6024A**	1750	1400	57500	42400	15.2	11.8	58CV(A,X)135–22	
CNPH*6024A**	1750	1400	57500	42400	15.5	11.9	58CV(A,X)155–22	
CSPH*6012A**	1750	1400	57000	42000	14.5	11.2	58MVB080–20	
CSPH*6012A**	1750	1400	57500	42400	15	11.4	58MVB100–20	
CSPH*6012A**	1750	1400	57500	42400	15	11.5	58MVB120–20	
CSPH*6012A**	1750	1400	57500	42400	15	11.7	58CV(A,X)110–20	
CSPH*6012A**	1750	1400	57500	42400	15.5	11.9	58CV(A,X)135–22	
CSPH*6012A**	1750	1400	58000	42400	15.5	11.9	58CV(A,X)155–22	

\* Tested combination

**EER** — Energy Efficiency Ratio

**SEER** — Seasonal Energy Efficiency Ratio

**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.

24ANA1

# DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†
<b>24ANA12A30 Outdoor Section With FE5ANB004 Indoor Section – High Stage</b>																			
		31.17	16.07	1.44	29.97	15.63	1.60	28.69	15.17	1.78	27.29	14.67	1.97	25.76	14.13	2.18	24.05	13.53	2.42
700		28.22	19.46	1.42	27.12	19.04	1.58	25.94	18.60	1.76	24.67	18.12	1.95	23.26	17.59	2.16	21.67	17.01	2.40
		26.17	18.84	1.40	25.15	18.42	1.57	24.05	17.97	1.74	22.85	17.48	1.93	21.53	16.95	2.14	20.05	16.36	2.38
		25.56	22.82	1.40	24.56	22.43	1.56	23.48	22.00	1.74	22.31	21.54	1.93	21.04	21.01	2.14	19.90	19.90	2.38
		24.41	24.41	1.39	23.68	23.68	1.55	22.89	22.89	1.73	22.01	22.01	1.92	21.02	21.02	2.14	19.89	19.89	2.38
		31.63	16.53	1.45	30.39	16.09	1.61	29.07	15.62	1.79	27.64	15.12	1.98	26.06	14.57	2.19	24.30	13.97	2.43
750		28.64	20.17	1.43	27.51	19.74	1.59	26.29	19.29	1.76	24.98	18.81	1.95	23.53	18.28	2.17	21.91	17.70	2.41
		26.57	19.51	1.41	25.51	19.08	1.57	24.38	18.63	1.75	23.14	18.13	1.94	21.79	17.60	2.15	20.27	17.00	2.39
		25.95	23.77	1.41	24.92	23.37	1.57	23.81	22.94	1.74	22.62	22.46	1.93	21.53	21.53	2.15	20.36	20.36	2.39
		25.06	25.06	1.40	24.30	24.30	1.56	23.47	23.47	1.74	22.56	22.56	1.93	21.53	21.53	2.15	20.36	20.36	2.39
800		32.04	16.98	1.46	30.76	16.54	1.62	29.40	16.06	1.79	27.93	15.56	1.99	26.32	15.01	2.20	24.53	14.41	2.44
		29.01	20.86	1.43	27.85	20.43	1.60	26.60	19.98	1.77	25.25	19.49	1.96	23.77	18.96	2.17	22.11	18.37	2.41
		26.92	20.16	1.42	25.83	19.73	1.58	24.67	19.27	1.75	23.40	18.78	1.94	22.01	18.24	2.16	20.46	17.84	2.39
		26.30	24.70	1.41	25.24	24.30	1.58	24.12	23.85	1.75	23.06	23.06	1.94	22.00	22.00	2.16	20.78	20.78	2.40
		25.67	25.67	1.41	24.88	24.88	1.57	24.01	24.01	1.75	23.06	23.06	1.94	22.00	22.00	2.16	20.78	20.78	2.40
<b>CONDENSER ENTERING AIR TEMPERATURES deg F</b>																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†	Capacity MBtuht	Total System KW**	Sens†
<b>24ANA12A30 Outdoor Section With FE5ANB004 Indoor Section – Low Stage</b>																			
		25.69	14.00	0.95	24.27	13.44	1.07	22.81	12.87	1.24	21.27	12.28	1.42	19.65	11.67	1.62	17.92	11.03	1.87
700		22.98	17.29	0.93	21.69	16.71	1.09	20.35	16.11	1.23	18.95	15.49	1.41	17.47	14.85	1.61	15.89	14.18	1.86
		21.11	16.59	0.92	19.91	16.01	1.06	18.66	15.42	1.22	17.35	14.81	1.40	15.97	14.17	1.61	14.50	13.50	1.85
		20.58	20.54	0.92	19.62	19.62	1.06	18.62	18.62	1.22	17.58	17.58	1.40	16.46	16.46	1.61	15.25	15.25	1.85
		20.56	20.56	0.92	19.62	19.62	1.06	18.62	18.62	1.22	17.58	17.58	1.40	16.46	16.46	1.61	15.25	15.25	1.85
		26.02	14.44	0.96	24.57	13.88	1.09	23.07	13.30	1.25	21.50	12.70	1.42	19.85	12.08	1.63	18.09	11.43	1.87
750		23.28	17.98	0.94	21.96	17.39	1.08	20.59	16.78	1.23	19.16	16.15	1.41	17.65	15.49	1.62	16.04	14.81	1.86
		21.39	17.24	0.93	20.16	16.65	1.07	18.88	16.04	1.22	17.55	15.42	1.40	16.14	14.77	1.61	14.65	14.08	1.85
		21.10	21.10	0.93	20.12	20.12	1.07	19.09	19.09	1.22	18.01	18.01	1.40	16.85	16.85	1.61	15.60	15.60	1.86
		21.10	21.10	0.93	20.12	20.12	1.07	19.09	19.09	1.22	18.01	18.01	1.40	16.85	16.85	1.61	15.60	15.60	1.86
		26.32	14.88	0.96	24.84	14.31	1.10	23.31	13.72	1.25	21.71	13.12	1.43	20.03	12.49	1.63	18.23	11.83	1.88
800		23.55	18.66	0.95	22.20	18.05	1.08	20.80	17.43	1.24	19.34	16.79	1.42	17.81	16.13	1.62	16.18	15.42	1.87
		21.64	17.87	0.93	20.38	17.27	1.07	19.08	16.66	1.23	17.72	16.02	1.41	16.29	15.36	1.61	14.78	14.65	1.86
		21.60	21.60	0.93	20.58	20.58	1.07	19.52	19.52	1.23	18.40	18.40	1.41	17.21	17.21	1.62	15.92	15.92	1.86
		21.60	21.60	0.93	20.58	20.58	1.07	19.52	19.52	1.23	18.40	18.40	1.41	17.21	17.21	1.62	15.92	15.92	1.86

See notes on pg. 19



DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
<b>24ANA136A30 Outdoor Section With FE5ANB004 Indoor Section – Low Stage</b>																			
	72	32.96	16.87	1.28	30.99	16.13	1.48	29.00	15.39	1.69	26.98	14.64	1.94	24.89	13.88	2.24	22.71	13.10	2.58
	67	29.63	20.41	1.29	27.83	19.65	1.49	26.00	18.88	1.71	24.15	18.11	1.96	22.24	17.33	2.26	20.24	16.82	2.61
<b>750</b>	63	27.29	19.66	1.29	25.61	18.90	1.49	23.91	18.14	1.72	22.17	17.37	1.98	20.39	16.59	2.28	18.52	15.78	2.64
	62	26.60	23.89	1.30	24.95	23.11	1.50	23.30	22.33	1.72	21.63	21.63	1.98	20.23	20.23	2.28	18.76	18.76	2.64
	57	25.54	25.54	1.30	24.27	24.27	1.50	22.96	22.96	1.73	21.62	21.62	1.98	20.23	20.23	2.29	18.76	18.76	2.64
	72	34.35	18.44	1.31	32.23	17.67	1.50	30.08	16.89	1.72	27.91	16.11	1.97	25.68	15.32	2.26	23.36	14.51	2.60
	67	30.92	22.82	1.31	28.97	22.02	1.51	27.00	21.21	1.73	25.01	20.41	1.98	22.97	19.58	2.28	20.85	18.73	2.63
<b>925</b>	63	28.51	21.94	1.32	26.68	21.14	1.52	24.84	20.34	1.74	22.98	19.53	2.00	21.07	18.70	2.30	19.10	17.85	2.66
	62	27.84	27.12	1.32	26.26	26.26	1.52	24.80	24.80	1.74	23.29	23.29	2.00	21.74	21.74	2.30	20.10	20.10	2.64
	57	27.69	27.69	1.32	26.26	26.26	1.52	24.79	24.79	1.74	23.29	23.29	2.00	21.74	21.74	2.30	20.10	20.10	2.64
	72	35.05	19.49	1.33	32.84	18.70	1.52	30.82	17.90	1.74	28.36	17.10	1.99	26.05	16.29	2.28	23.67	15.46	2.62
	67	31.56	24.47	1.34	29.53	23.64	1.53	27.49	22.81	1.75	25.43	21.97	2.01	23.32	21.12	2.30	21.15	20.24	2.65
<b>1050</b>	63	29.12	23.49	1.34	27.22	22.66	1.54	25.31	21.83	1.76	23.38	21.00	2.02	21.41	20.14	2.32	19.40	19.24	2.68
	62	28.94	28.94	1.34	27.41	27.41	1.54	25.84	25.84	1.76	24.25	24.25	2.01	22.59	22.59	2.31	20.85	20.85	2.66
	57	28.94	28.94	1.34	27.40	27.40	1.54	25.84	25.84	1.76	24.25	24.25	2.01	22.59	22.59	2.31	20.85	20.85	2.66

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**	Capacity MBtu/ht		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
<b>24ANA136A30 Outdoor Section With FE5ANB004 Indoor Section – High Stage</b>																			
	72	43.27	21.56	2.10	41.60	20.84	2.33	39.81	20.09	2.57	37.89	19.31	2.84	35.80	18.49	3.13	34.46	17.96	3.06
	67	39.15	25.72	2.06	37.60	25.00	2.29	35.95	24.25	2.53	34.18	23.47	2.79	32.25	22.65	3.08	30.11	21.76	3.41
<b>900</b>	63	36.24	24.91	2.04	34.78	24.18	2.26	33.23	23.43	2.50	31.56	22.64	2.76	29.75	21.81	3.05	27.74	20.92	3.38
	62	35.37	29.83	2.03	33.95	29.11	2.25	32.43	28.36	2.49	30.79	27.58	2.75	29.02	26.75	3.04	27.07	25.85	3.37
	57	33.03	33.03	2.01	32.02	32.02	2.23	30.92	30.92	2.47	29.72	29.72	2.74	28.40	28.40	3.03	26.92	26.92	3.36
	72	44.78	22.90	2.14	42.98	22.16	2.36	41.07	21.39	2.60	39.01	20.58	2.87	36.79	19.74	3.17	34.33	18.84	3.49
	67	40.56	27.77	2.10	38.89	27.03	2.32	37.12	26.25	2.56	35.22	25.45	2.82	33.17	24.61	3.12	30.91	23.70	3.44
<b>1050</b>	63	37.56	26.85	2.07	36.00	26.10	2.29	34.33	25.32	2.53	32.55	24.51	2.79	30.61	23.66	3.08	28.49	22.74	3.41
	62	36.68	32.58	2.06	35.16	31.83	2.28	33.53	31.05	2.52	31.80	30.23	2.78	30.04	30.04	3.08	28.42	28.42	3.41
	57	35.13	35.13	2.05	34.00	34.00	2.27	32.79	32.79	2.51	31.48	31.48	2.78	30.04	30.04	3.08	28.42	28.42	3.41
	72	45.92	24.15	2.17	44.03	23.40	2.39	42.02	22.62	2.64	39.86	21.80	2.90	37.53	20.94	3.20	34.96	20.02	3.52
	67	41.63	29.72	2.13	39.87	28.96	2.35	38.00	28.18	2.59	36.01	27.36	2.85	33.85	26.49	3.15	31.49	25.57	3.47
<b>1200</b>	63	38.58	28.69	2.10	36.92	27.93	2.32	35.17	27.13	2.56	33.29	26.30	2.82	31.27	25.43	3.11	29.05	24.49	3.44
	62	37.72	35.20	2.09	36.12	34.41	2.31	34.45	34.27	2.55	32.96	32.96	2.82	31.40	31.40	3.11	29.67	29.67	3.45
	57	36.90	36.90	2.08	35.68	35.68	2.31	34.37	34.37	2.55	32.96	32.96	2.82	31.40	31.40	3.11	29.67	29.67	3.45

See notes on pg. 19







# DETAILED COOLING CAPACITIES CONTINUED

24ANA148A30 Outdoor Section With FE4ANB006 Indoor Section

COOLING INDOOR MODEL	HIGH SPEED CAP	POWER	LOW SPEED CAP	POWER	FURNACE MODEL	COOLING INDOOR MODEL	HIGH SPEED CAP	POWER	LOW SPEED CAP	POWER	FURNACE MODEL	COOLING INDOOR MODEL	HIGH SPEED CAP	POWER	LOW SPEED CAP	POWER	FURNACE MODEL
*FE4ANB006	1.00	1.00	1.00	1.00		CNPH*4821A**	0.96	1.02	0.97	1.02	58CV(A,X)135-22	CNPH*4821A**	0.96	1.02	0.97	1.02	58CV(A,X)135-22
FE4AN(B)F005	0.98	1.01	0.98	1.00		CNPH*6024A**	0.98	1.02	0.99	1.01	58CV(A,X)135-22	CNPH*6024A**	0.98	1.02	0.99	1.01	58CV(A,X)135-22
CAP**4817A**	0.97	1.06	0.98	1.04	58CV(A,X)090-16	CNPH*4821A**	0.96	1.02	0.97	1.02	58CV(A,X)135-22	CNPH*4821A**	0.98	1.05	0.99	1.05	58CV(A,X)135-22
CAP**4821A**	0.96	1.04	0.97	1.03	58CV(A,X)090-16	CNPH*6024A**	0.98	1.02	0.99	1.01	58CV(A,X)135-22	CNPH*6024A**	0.96	1.04	0.97	1.04	58CV(A,X)135-22
CAP**6021A**	0.98	1.04	0.99	1.03	58CV(A,X)090-16	CSPH*4812A**	0.97	1.03	0.98	1.02	58CV(A,X)135-22	CSPH*4812A**	0.98	1.04	0.99	1.03	58CV(A,X)135-22
CNPH*4821A**	0.96	1.04	0.97	1.03	58CV(A,X)090-16	CSPH*6012A**	0.99	1.02	0.99	1.02	58CV(A,X)135-22	CNPH*4821A**	0.96	1.04	0.97	1.04	58CV(A,X)135-22
CNPH*6024A**	0.98	1.03	0.98	1.02	58CV(A,X)090-16	CAP**4824A**	0.96	1.01	0.97	1.01	58CV(A,X)155-22	CNPH*6024A**	0.98	1.04	0.98	1.03	58CV(A,X)155-22
CNPH*4821A**	0.96	1.04	0.97	1.03	58CV(A,X)090-16	CAP**6024A**	0.99	1.02	0.99	1.01	58CV(A,X)155-22	CNPH*4821A**	0.96	1.04	0.97	1.04	58CV(A,X)155-22
CSPH*4812A**	0.97	1.05	0.98	1.04	58CV(A,X)090-16	CNPH*4821A**	0.97	1.02	0.97	1.01	58CV(A,X)155-22	CSPH*4812A**	0.97	1.06	0.97	1.04	58CV(A,X)155-22
CSPH*6012A**	0.99	1.04	0.99	1.03	58CV(A,X)090-16	CNPH*6024A**	0.98	1.01	0.99	1.01	58CV(A,X)155-22	CSPH*6012A**	0.99	1.05	0.99	1.03	58CV(A,X)155-22
CAP**4821A**	0.96	1.04	0.97	1.03	58CV(A,X)110-20	CNPH*4821A**	0.97	1.02	0.97	1.01	58CV(A,X)155-22	CAP**4824A**	0.96	1.04	0.97	1.03	58CV(A,X)155-22
CAP**6021A**	0.99	1.04	0.99	1.03	58CV(A,X)110-20	CNPH*6024A**	0.98	1.01	0.99	1.01	58CV(A,X)155-22	CAP**6024A**	0.98	1.04	0.99	1.03	58CV(A,X)155-22
CNPH*4821A**	0.96	1.03	0.97	1.03	58CV(A,X)110-20	CSPH*4812A**	0.97	1.02	0.98	1.02	58CV(A,X)155-22	CNPH*4821A**	0.96	1.04	0.97	1.03	58CV(A,X)155-22
CNPH*6024A**	0.98	1.03	0.98	1.02	58CV(A,X)110-20	CSPH*6012A**	0.99	1.01	0.99	1.01	58CV(A,X)155-22	CNPH*6024A**	0.98	1.04	0.98	1.02	58CV(A,X)155-22
CNPH*4821A**	0.96	1.03	0.97	1.03	58CV(A,X)110-20	CAP**4821A**	0.96	1.05	0.97	1.05	58MVB080-20	CNPH*4821A**	0.96	1.04	0.97	1.03	58MVB120-20
CSPH*4812A**	0.97	1.05	0.98	1.04	58CV(A,X)110-20	CAP**6021A**	0.98	1.05	0.98	1.04	58MVB080-20	CSPH*4812A**	0.98	1.05	0.98	1.02	58MVB120-20
CSPH*6012A**	0.99	1.04	0.99	1.03	58CV(A,X)110-20	CNPH*4821A**	0.96	1.05	0.97	1.04	58MVB080-20	CSPH*6012A**	0.97	1.04	0.98	1.04	58MVB120-20
CAP**4824A**	0.96	1.02	0.97	1.02	58CV(A,X)135-22	CNPH*6024A**	0.98	1.05	0.98	1.04	58MVB080-20	CAP**4824A**	0.96	1.04	0.99	1.03	58MVB120-20
CAP**6024A**	0.99	1.03	0.99	1.02	58CV(A,X)135-22							CSPH*6012A**	0.99	1.04	0.99	1.03	58MVB120-20

See notes on pg. 19

DETAILED COOLING CAPACITIES CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
<b>24ANA160A30 Outdoor Section With FE4ANB006 Indoor Section - Low Stage</b>																			
72		50.64	25.81	2.46	48.02	24.57	2.78	45.28	23.30	3.14	42.40	22.01	3.56	39.37	20.69	4.03	36.12	19.33	4.58
67		45.97	31.36	2.47	43.57	30.01	2.80	41.06	28.64	3.17	38.42	27.24	3.59	35.65	25.81	4.08	32.69	24.34	4.64
63	1200	42.66	30.35	2.48	40.41	29.01	2.82	38.07	27.66	3.19	35.02	26.28	3.62	33.02	24.87	4.12	30.26	23.41	4.69
62		41.69	36.82	2.48	39.50	35.37	2.82	37.22	33.88	3.20	34.84	32.36	3.63	32.37	32.22	4.12	30.07	30.07	4.69
57		39.93	39.93	2.49	38.17	38.17	2.83	36.82	36.82	3.21	34.37	34.37	3.63	32.30	32.30	4.12	30.07	30.07	4.69
72		51.93	27.38	2.53	49.17	26.09	2.85	46.29	23.44	3.62	43.27	22.07	4.09	36.71	22.07	4.09	36.71	20.66	4.64
67		47.18	33.82	2.54	44.64	32.41	2.87	42.00	30.97	3.23	39.24	29.41	3.65	36.33	28.01	4.14	33.24	26.47	4.70
63	1400	43.81	32.68	2.55	41.44	31.28	2.88	38.97	29.85	3.26	36.39	28.41	3.68	33.67	26.93	4.18	30.79	25.40	4.74
62		42.88	40.14	2.55	40.60	38.36	2.89	38.26	38.08	3.26	36.07	36.07	3.68	33.83	33.83	4.17	31.43	31.43	4.73
57		42.09	42.09	2.55	40.19	40.19	2.89	38.18	38.18	3.26	36.07	36.07	3.68	33.83	33.83	4.17	31.43	31.43	4.73
72		52.78	28.82	2.63	49.93	27.50	2.95	46.93	26.14	3.30	43.80	24.77	3.71	40.52	23.36	4.18	37.02	21.91	4.73
67		47.98	36.15	2.64	45.34	34.67	2.96	42.80	33.17	3.33	39.74	31.65	3.74	36.74	30.09	4.22	33.55	28.47	4.78
63	1600	44.57	34.86	2.64	42.11	33.40	2.98	39.54	31.91	3.35	36.87	30.40	3.77	34.07	28.86	4.26	31.10	27.26	4.83
62		43.83	43.83	2.65	41.77	41.77	2.98	39.64	39.64	3.35	37.39	37.39	3.76	35.01	35.01	4.25	32.45	32.45	4.80
57		43.82	43.82	2.65	41.78	41.78	2.98	39.64	39.64	3.35	37.39	37.39	3.76	35.01	35.01	4.25	32.45	32.45	4.80

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**	Capacity MBtuht		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
<b>24ANA160A30 Outdoor Section With FE4ANB006 Indoor Section - High Stage</b>																			
72		67.85	33.92	3.92	65.44	32.86	4.30	62.80	31.73	4.71	59.87	30.52	5.15	56.59	29.21	5.64	52.81	27.76	6.18
67		61.78	40.67	3.84	59.58	39.61	4.22	57.17	38.49	4.62	54.49	37.28	5.07	51.49	35.97	5.55	48.06	34.52	6.08
63	1500	57.46	39.50	3.78	55.41	38.44	4.16	53.16	37.31	4.56	50.66	36.10	5.00	47.87	34.79	5.49	44.88	33.34	6.02
62		56.20	47.33	3.77	54.19	46.27	4.14	51.99	45.15	4.55	49.56	43.93	4.99	46.85	42.60	5.47	43.78	41.09	6.00
57		52.61	52.61	3.72	51.16	51.16	4.10	49.56	49.56	4.51	47.75	47.75	4.96	45.69	45.69	5.45	43.29	43.29	5.99
72		69.63	35.77	4.10	67.05	34.68	4.47	64.22	33.52	4.88	61.10	32.28	5.32	57.61	30.94	5.80	53.63	29.45	6.33
67		63.46	43.59	4.01	61.09	42.50	4.39	58.50	41.34	4.79	55.64	40.10	5.23	52.45	38.75	5.71	48.82	37.27	6.24
63	1750	59.05	42.25	3.95	56.84	41.15	4.33	54.42	39.99	4.73	51.76	38.75	5.17	48.79	37.40	5.65	45.41	35.91	6.18
62		57.80	51.29	3.94	55.65	50.18	4.31	53.31	48.99	4.71	50.75	47.68	5.15	47.95	47.55	5.64	45.16	45.16	6.17
57		55.42	55.42	3.91	53.82	53.82	4.29	52.04	52.04	4.70	50.05	50.05	5.14	47.79	47.79	5.63	45.17	45.17	6.17
72		70.78	37.43	4.30	68.06	36.33	4.67	65.09	35.15	5.08	61.81	33.89	5.52	58.16	32.52	6.00	54.01	31.01	6.53
67		64.53	46.29	4.22	62.03	45.18	4.59	59.30	44.00	4.99	56.30	42.73	5.43	52.96	41.35	5.91	49.18	39.82	6.44
63	2000	60.07	44.78	4.15	57.73	43.66	4.53	55.19	42.48	4.93	52.39	41.20	5.36	49.28	39.82	5.84	45.76	38.29	6.37
62		58.89	54.91	4.14	56.66	53.72	4.51	54.28	52.38	4.91	51.80	51.80	5.36	49.36	49.36	5.85	46.53	46.53	6.38
57		57.63	57.63	4.12	55.89	55.89	4.50	53.96	53.96	4.91	51.81	51.81	5.36	49.37	49.37	5.85	46.54	46.54	6.39

See notes on pg. 19

# DETAILED COOLING CAPACITIES CONTINUED

24ANA160A30 Outdoor Section With FE4ANB006 Indoor Section

COOLING INDOOR MODEL	HIGH SPEED CAP	POWER	LOW SPEED CAP	POWER	FURNACE MODEL
*FE4ANB006	1.00	1.00	1.00	1.00	
CAP**6021A**	0.98	1.03	1.01	1.05	58CV(A)110-20
GNPH*6024A**	0.97	1.02	1.00	1.05	58CV(A)110-20
CSPH*6012A**	0.98	1.02	1.01	1.05	58CV(A)110-20
CAP**6024A**	0.98	1.02	1.01	1.05	58CV(A)135-22
GNPH*6024A**	0.98	1.02	1.01	1.05	58CV(A)135-22
CSPH*6012A**	0.98	1.01	1.01	1.04	58CV(A)135-22
CAP**6024A**	0.98	1.01	1.01	1.04	58CV(A)155-22
GNPH*6024A**	0.98	1.01	1.01	1.04	58CV(A)155-22
CSPH*6012A**	0.99	1.02	1.01	1.03	58CV(A)155-22
CAP**6021A**	0.97	1.07	1.00	1.07	58MVB080-20
GNPH*6024A**	0.97	1.06	1.00	1.06	58MVB080-20
CSPH*6012A**	0.97	1.06	1.00	1.07	58MVB080-20
CAP**6021A**	0.97	1.05	1.00	1.07	58MVB100-20
GNPH*6024A**	0.97	1.05	1.00	1.07	58MVB100-20
CSPH*6012A**	0.98	1.05	1.01	1.07	58MVB100-20
CAP**6024A**	0.97	1.04	1.00	1.07	58MVB120-20
GNPH*6024A**	0.97	1.04	1.00	1.06	58MVB120-20
CSPH*6012A**	0.98	1.04	1.01	1.07	58MVB120-20

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

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

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

\*\* Total system kW is total of indoor and outdoor unit kilowatts.

# GUIDE SPECIFICATIONS

## GENERAL

### System Description

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

### Quality Assurance

- Unit will be rated in accordance with the latest edition of 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, forward swept blade, discharging air upward.

## AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER

24ANA1

### 2 THROUGH 5 NOMINAL TONS

- Condenser fan motors will be electronic ECM motors that provide multi-speed operation with enhanced low-speed efficiencies and sound levels.
- Forward swept fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

### Compressor

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

### Condenser Coil

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

### Refrigeration Components

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