

24ANB7
Infinity® 17 2-Stage Air Conditioner
with Puron® Refrigerant
2 to 5 Nominal Tons



Product Data



INFINITY  SERIES

Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24ANB7 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.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

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

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 14 - 17.7 SEER / 11.3 - 13.7 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 67 dBA
- Quiet mount split post compressor grommets
- Forward-swept condenser fan blade
- Compressor sound hood
- Laminated steel compressor mounting plate
- 8 pole PSC ball bearing outdoor condenser fan motor

Comfort

- System supports Infinity™ Control or standard 2-stage thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- 2-stage scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Low pressure switch
- High pressure switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Controls and Diagnostics

- Infinity™ Control or 2-Stage Thermostat
- 2 control wires to outdoor unit with Infinity Control (serial numbers 0213E and newer)
- Utility Interface Connection
- Enhanced diagnostics capability with Infinity™ Control

Durability

WeatherArmor Ultra™ protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

Applications

- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to 0°F / -17.8°C) with approved low ambient accessory kits or 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	B	7	3	6	A	0	0	3	0
Product Series 24=AC	Product Family A=RES AC	Tier N = Infinity	Major Series B=Puron	SEER 7=17 SEER Nominal	Cooling Capacity	Variations A=Standard	Open B = Design Variation 0=Not Defined	Open 0=Not Defined	Voltage 3=208-230-1	Minor Series 0, 1, 2...		



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



ISO 9001
QMI-SAI Global



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

STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series			
	24–31	36–31	48–31	60–32
Puron Refrigerant	X	X	X	X
Maximum SEER Rating*	17.0	17.7	17.0	16.0
2–Stage Scroll Compressor	X	X	X	X
2 control wires to outdoor unit with Infinity Control (serial numbers 0213E and newer)	X	X	X	X
Crankcase Heater	O	O	X	X
Long line Capability	X	X	X	X
Low Ambient Cooling Capability to 0°F (–17.8°C) w/Infinity Control or Approved Kits	X	X	X	X
Enhanced Diagnostics w/Infinity Control	X	X	X	X
Utility Interface Connection	X	X	X	X
Louvered Coil Guard	X	X	X	X
Field Installed Filter Drier	X	X	X	X
Front Seating Service Valves	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X
Internal Thermal Overload	X	X	X	X
Long Line capability	X	X	X	X
Low Pressure Switch	X	X	X	X
High Pressure Switch	X	X	X	X
Sound Blanket	X	X	X	X

X = Standard O = Accessory
* With approved combinations

REFRIGERANT PIPING LENGTH LIMITATIONS

Liquid Line Sizing and Maximum Total Equivalent Lengths† for Cooling Only Systems with Puron® Refrigerant:

The maximum allowable length of a residential split system depends on the liquid line diameter and vertical separation between indoor and outdoor units.

See Table below for liquid line sizing and maximum lengths :

Maximum Total Equivalent Length Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Connection	Liquid Line Diam. w/TXV	AC with Puron Refrigerant Maximum Total Equivalent Length†: Outdoor unit BELOW Indoor Vertical Separation ft (m)								
			0-5 (0-1.5)	6-10 (1.8-3.0)	11-20 (3.4-6.1)	21-30 (6.4-9.1)	31-40 (9.4-12.2)	41-50 (12.5-15.2)	51-60 (15.5-18.3)	61-70 (18.6-21.3)	71-80 (21.6-24.4)
024 AC with Puron	3/8	1/4	75	75	75	50	50	--	--	--	--
		5/16	250*	250*	250*	250*	250*	225*	175	125	100
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
036 AC with Puron	3/8	5/16	175	150	150	100	100	100	75	--	--
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
048 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	230	160	--
060 AC with Puron	3/8	3/8	250*	250*	250*	225*	190	150	110	--	--

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

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

-- = outside acceptable range

Maximum Total Equivalent Length Outdoor Unit ABOVE Indoor Unit

Size	Liquid Line Connection	Liquid Line Diam. w/TXV	AC with Puron Refrigerant Maximum Total Equivalent Length†: Outdoor unit ABOVE Indoor Vertical Separation ft (m)							
			25 (7.6)	26-50 (7.9-15.2)	51-75 (15.5-22.9)	76-100 (23.2-30.5)	101-125 (30.8-38.1)	126-150 (38.4-45.7)	151-175 (46.0-53.3)	176-200 (53.6-61.0)
024 AC with Puron	3/8	1/4	100	125	175	200	225*	250*	250*	250*
		5/16	250*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
036 AC with Puron	3/8	5/16	225*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
048 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*
060 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*

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

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

REFRIGERANT CHARGE ADJUSTMENTS

Liquid Line Size	Puron Charge oz/ft (g/m)
3/8	0.60 (17.74) (Factory charge for lineset = 9 oz / 266.16 g)
5/16	0.40 (11.83)
1/4	0.27 (7.98)

Units are factory charged for 15 ft (4.6 m) of 3/8" liquid line. The factory charge for 3/8" lineset 9 oz.(266.16 g). When using other length or diameter liquid lines, charge adjustments are required per the chart above.

Charging Formula:

[(Lineset oz/ft x total length) - (factory charge for lineset)] = charge adjustment

Example 1: System has 15 ft of line set using existing 1/4" liquid line. What charge adjustment is required?

Formula: (.27 oz/ft x 15ft) - (9 oz) = (-4.95) oz.

Net result is to remove 4.95 oz of refrigerant from the system

Example 2: System has 45 ft of existing 5/16" liquid line. What is the charge adjustment?

Formula: (.40 oz/ft. x 45ft) - (9 oz.) = 9 oz.

Net result is to add 9 oz of refrigerant to the system

NOTE: Conditions must be favorable for charging by subcooling method. Indoor temperature must be 70°F to 80°F (21.1°C to 26.7°C), and outdoor temperature must be 70°F to 100°F (21.1°C to 37.8°C). If outside these conditions, adjust charge for long line sets by weigh-in method.

LONG LINE APPLICATIONS

An application is considered Long Line, when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Accessory requirements depend on the system type, and are defined in this document. Defining a system as long line depends on the liquid line diameter, indoor metering device (piston or TXV), actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Air Conditioner systems, the charts below show when an application is considered Long Line:

AC with Puron® Refrigerant Long Line Description ft (m) Beyond these lengths, a TXV is required

Total Length	Outdoor Unit Above or Below Indoor Unit
TXV required beyond 50 ft. (15.2 m)	TXV required beyond 20 ft. (6.1 m)

AC with Puron® Refrigerant Long Line Description ft (m) (Beyond these lengths, long line accessories are required)

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
1/4 + TXV	No accessories needed within allowed lengths	No accessories needed within allowed lengths	175 (53.3)
5/16 + TXV	120 (36.6)	50 (15.2) vertical or 120 (36.6) total	120 (36.6)
3/8 + TXV	80 (24.4)	35 (10.7) vertical or 80 (24.4) total	80 (24.4)

Note: See Residential Piping and Long Line Guideline for details

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

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

Vapor Line Sizing and Cooling Capacity Losses — Puron® Refrigerant 2-Stage Air Conditioner Applications

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In.) OD	Cooling Capacity Loss (%)								
			Total Equivalent Line Length ft. (m)								
			26-50 (7.9-15.2)	51-80 (15.5-24.4)	81-100 (24.7-30.5)	101-125 (30.8-38.1)	126-150 (38.4-45.7)	151-175 (46.0-50.3)	176-200 (53.6-60.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
024 2-Stage Puron AC	3/8	5/8	0	1	1	2	3	3	4	4	5
		3/4	0	0	0	0	1	1	1	1	1
036 2-Stage Puron AC	3/8	5/8	1	2	4	5	6	7	9	10	11
		3/4	0	0	1	1	2	2	3	3	4
		7/8	0	0	0	0	1	1	1	1	2
048 2-Stage Puron AC	3/8	3/4	1	2	2	3	4	5	6	7	7
		7/8	0	1	1	2	2	3	3	3	3
		1-1/8	0	0	—	—	—	—	—	—	—
060 2-Stage Puron AC	3/8	3/4	1	2	4	5	6	7	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1-1/8	0	0	0	1	1	1	1	1	1

Applications in this area may be long line and may have height restrictions. See the Residential Piping and Long Line Guideline.

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

PHYSICAL DATA

UNIT SIZE - VOLTAGE, SERIES	24-31	36-31	48-31	60-32
Compressor Type	Ultratech 2-Stage Scroll			
REFRIGERANT	Puron® (R-410A)			
Control	TXV (Puron Hard Shutoff)			
Charge lb (kg)	6.64 (3.01)	9.26 (4.20)	12.94 (5.87)	12.70 (5.76)
COND FAN	Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	2481	3068	4700	4700
Motor HP	1/12	1/10	1/4	1/4
Motor RPM	800	825	825	825
COND COIL				
Face Area (Sq ft)	19.38	19.38	25.12	25.12
Fins per In.	25	20	20	20
Rows	1	2	2	2
Circuits	5	7	7	7
VALVE CONNECT. (In. ID)				
Vapor	3/4	7/8	7/8	7/8
Liquid	3/8			
REFRIGERANT TUBES* (In. OD)				
Rated Vapor*	3/4	7/8	1-1/8	1-1/8
Liquid	3/8			

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

ELECTRICAL DATA

Unit Size – Series	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MIN	MAX	LRA	RLA	FLA		
24–31	208–230/1	197	253	58.3	11.1	0.6	14.5	20
36–31				83.0	15.3	0.7	19.8	35
48–31				104.0	21.2	1.3	27.8	40
60–32				152.9	28.8	1.3	37.3	60

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

† Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

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

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND POWER (dBA)

Unit Size – Voltage, Series	Standard Rating (dBA)	Typical Octave Band Spectrum (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24–31	72 – High Stage	52.0	56.0	62.0	63.5	61.5	59.0	53.0
	71 – Low Stage	54.5	56.5	63.5	66.0	62.0	59.5	52.0
36–31	71 – High Stage	53.0	58.5	64.5	67.0	61.5	59.5	53.5
	70 – Low Stage	53.0	59.0	64.5	64.5	61.5	59.5	52.5
48–31	72 – High Stage	57.5	60.0	65.5	67.5	62.0	58.5	50.5
	70 – Low Stage	56.0	61.0	64.0	65.0	62.0	58.5	51.5
60–32	72 – High Stage	52.5	61.5	63.0	66.0	62.5	60.0	54.5
	72 – Low Stage	53.5	60.5	63.5	67.0	62.0	60.5	56.0

NOTE: Tested in accordance with AHRI Standard 270–08. (Not listed with AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
24–31	10 (5.6)
36–31	14 (7.8)
48–31	13 (7.2)
60–32	14 (7.8)

ACCESSORY CONTROLS

PART NUMBER	DESCRIPTION
SYSTXCCITC01–A	Infinity Touch Control (Wi–Fi)
SYSTXCCITN01–A	Infinity Touch Control (non–Wi–Fi)
SYSTXCCITW01–A	Infinity Touch Control with Wi–Fi & Wireless Access Point
SYSTXCCSMS01–B	Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCRRS01	Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCRCT01	Infinity System Remote Access Module, Broadband Cat–5 Wired
SYSTXCCRWF01	Infinity System Remote Access Module, Broadband WiFi Wireless
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non–zoning applications.)

ACCESSORIES

ORDER NUMBER	DESCRIPTION	24–31	36–31	48–31	60–32
KAACH2401AAA	CRANKCASE HEATER	X	X	S	S
KSAHS2501AAA*	HARD START KIT	X	X		
KSAHS2801AAA*	HARD START KIT			X	X
KAALS0201LLS	SOLENOID VALVE	X	X	X	X
KSALA0301410	LOW AMBIENT PSW	X	X	X	X
KSAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X
KAAWS0101AAA	WINTER START CONTROL	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X

x = Accessory S = Standard

* Not backward compatible to previous series.

ACCESSORY USAGE GUIDELINE

Accessory	Required for Low Ambient Cooling Applications Utilizing 2-Stage Thermostat on 17 SEER Models Only (Below 55° F / 12.8° C)	Required for Low Ambient Cooling Applications Utilizing UI (Below 55° F / 12.8° C)	Required for Long Line Applications*	Required for Sea Coast Applications (within 2 miles/3.2 km)
Compressor Start Assist Capacitor and Relay	No	No	No	No
Crankcase Heater	Yes (standard on some units)	Yes (standard on some units)	Yes (standard on some units)	No
Evaporator Freeze Thermostat	Yes (kit required)	Standard with Infinity Touch Control (no kit required)	No	No
Liquid Line Solenoid Valve	No	No	See Residential Piping and Long Line Guideline	No
Low-Ambient Pressure Switch	Yes (kit required)	Standard with Infinity Touch Control (no kit required)	No	No
Puron Refrigerant Balance Port Hard Shutoff TXV	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)
Support Feet	Recommended	Recommended	No	Recommended
Winter Start Control	Yes (kit required)	Standard with Infinity Touch Control (no kit required)	No	No

* For tubing set lengths between 80 and 200 ft. (24.38 and 60.96 m) horizontal or 35 ft. (10.7 m) vertical differential (total equivalent length), refer to the Residential Piping and Long Line Guideline.

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

Not required on this unit since compressor always starts unloaded.

Available if required by local codes.

2. 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.

3. 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.

4. Low-Ambient Pressure Switch

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 (-17.8°C) when properly installed.

Usage Guideline:

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

5. Support Feet

Four stick-on plastic feet that raise the unit 4 in. (101.6 mm) 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.

6. 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:

Required to achieve AHRI ratings in certain equipment combinations. Refer to combination ratings.

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

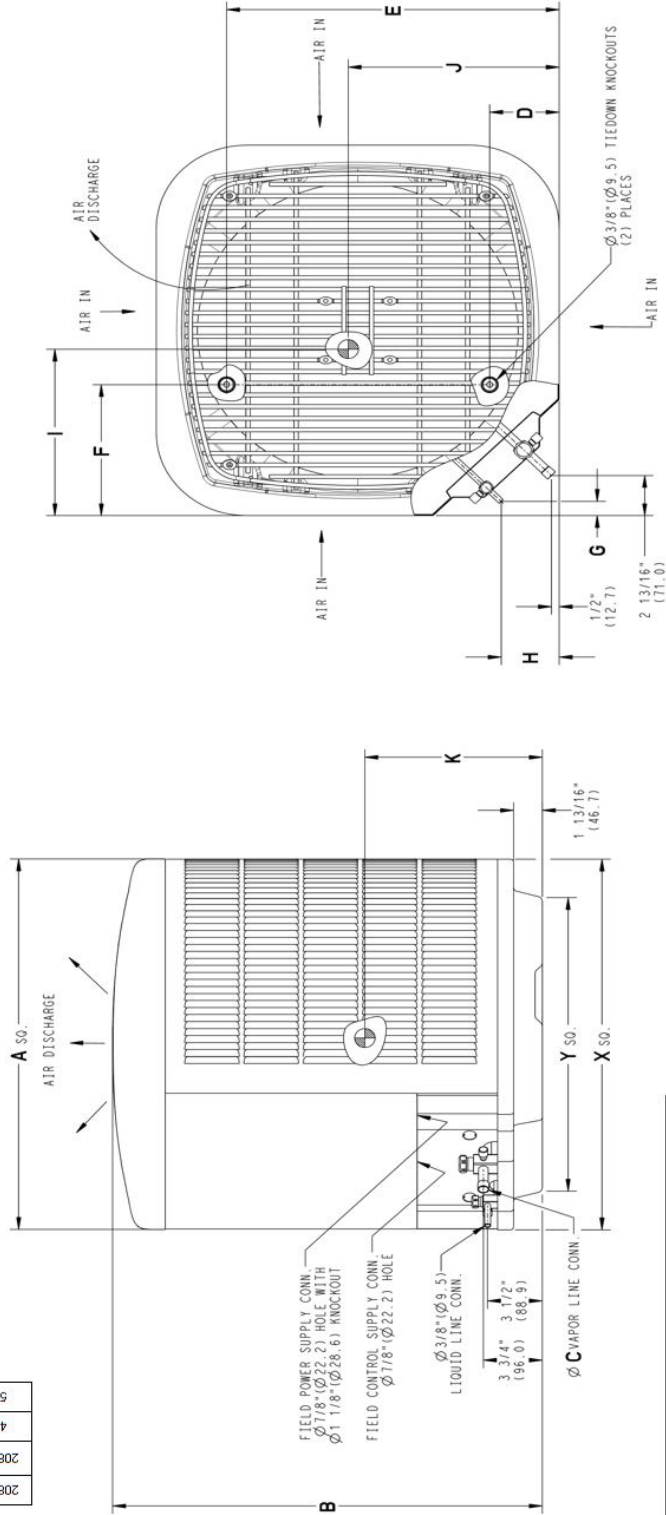
7. Winter Start Control

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

DIMENSIONS

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH/ WIDTH (Sq.)		SHIPPING HEIGHT			
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
24ANE724	1	Y N N	31.316	792.5	36	914.2	34	861	191	4866	166.1	4216	24.116	613	9.18	231.3	576	7.9	3	76.2	15.78	403.2	16.12	411.1	17.34	440.9	203	92.1	242	109.8	33.516	846.6	43.38	1102.2
24ANE736	1	Y N N	31.316	792.5	36	914.2	78	198	22.2	566.1	24.116	613	9.18	231.3	576	7.9	3	76.2	16	406.4	15.12	383.7	17.12	434.5	236	107.0	275	124.7	33.516	846.6	43.38	1102.2		
24ANE748	1	Y N N	35	889.0	40.38	1026.3	78	198	22.2	566.1	28.716	728.8	9.18	231.3	576	7.9	3	76.2	17.14	438.2	17.14	438.2	18.12	463.9	310	140.6	352	159.7	37.18	943.1	45.14	1149.1		
24ANE760	2	Y N N	35	889.0	40.38	1026.3	78	198	22.2	566.1	28.716	728.8	9.18	231.3	576	7.9	3	76.2	16.12	411.1	16.14	412.8	17.12	434.5	311	141.1	353	160.1	37.18	943.1	45.14	1149.1		

Y= YES
N= NO



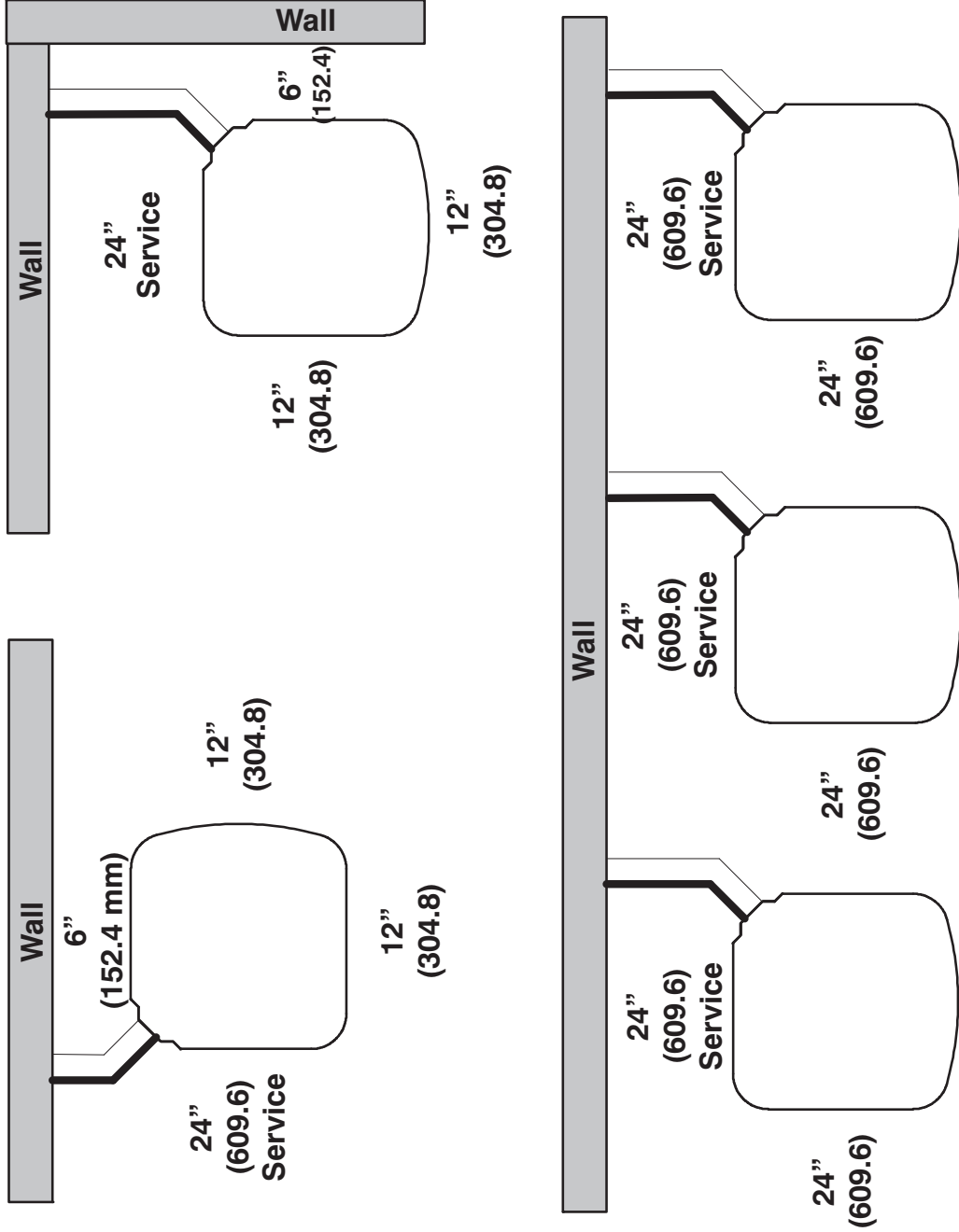
UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS	MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS	MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
-	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
24.36	31 3/16	792.5	22 15/16	583.2
48.60	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. EXPORT CLASSIFICATION: EAR99

CLEARANCES

Clearances (various examples)



Note: Numbers in () = mm

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

TESTED AHRI COMBINATION RATINGS

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Carrier database at: www.MyCarrierRatings.com

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmob.wrightsoft.com/>

Model Number	Indoor Coil Model Number	AHRI STANDARD RATINGS						FURNACE MODEL
		COOLING						
		CAPACITY		SEER	EER	ID CFM		
		HIGH	LOW			HIGH	LOW	
24ANB724A**31	CNPV*3117A**	24,000	21,600	17.0	13.0	835	670	58CV(A,X)090-16
24ANB736A**31	CNPV*4821A**	36,000	29,400	17.0	13.0	1005	835	58CV(A,X)090-16
24ANB748A**31	CNPV*6124A**	48,000	40,000	17.0	13.0	1355	1010	58CV(A,X)135-22
24ANB760AB032	CAP**6124**	56,500	44,500	14.5	12.0	1625	1300	--

AHRI — Air Conditioning, Heating & Refrigeration Institute

EER — Energy Efficiency Ratio — 80°F (26.6°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor wb.

SEER — Seasonal Energy Efficiency Ratio

TDR — Time-Delay Relay. 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.

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 affected.

DETAILED COOLING CAPACITIES#

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)											
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)	
		Capacity MBtuh Total	Sens†	Capacity MBtuh Total	Sens†	Capacity MBtuh Total	Sens†	Capacity MBtuh Total	Sens†	Capacity MBtuh Total	Sens†	Capacity MBtuh Total	Sens†
		24ANB724A**31 Outdoor Section With CNPVP*3117A**+58CV(A)030-16 Indoor Section - High		Total Sys. KW**		Total Sys. KW**		Total Sys. KW**		Total Sys. KW**		Total Sys. KW**	
600	57 (13.9)	24.35	24.35	21.95	1.68	19.59	1.78	17.29	1.90	15.06	2.03	12.92	2.18
	62 (16.7)	25.97	21.39	19.39	1.69	20.53	1.79	17.94	1.90	15.45	2.03	13.09	2.18
	63 (17.2)††	26.50	17.74	16.00	1.69	20.94	1.79	18.29	1.91	15.74	2.03	13.32	2.18
	67 (19.4)	28.68	18.42	16.63	1.71	22.68	1.80	19.82	1.92	17.07	2.04	14.47	2.19
	72 (22.2)	31.66	15.36	13.79	1.72	25.04	1.82	21.89	1.93	18.87	2.06	16.01	2.21
	57 (13.9)	25.14	25.14	22.64	1.69	20.19	1.80	17.81	1.91	15.50	2.04	13.29	2.18
650	62 (16.7)	26.46	22.38	20.90	1.70	20.90	1.80	18.25	1.91	15.71	2.04	13.33	2.19
	63 (17.2)††	26.88	18.42	16.82	1.70	14.87	1.80	18.57	1.92	15.98	2.04	13.51	2.19
	67 (19.4)	29.19	19.14	16.83	1.63	23.05	1.81	20.12	1.93	17.32	2.05	14.66	2.20
	72 (22.2)	32.19	15.83	14.22	1.73	25.41	1.83	22.20	1.94	19.12	2.05	16.20	2.21
	57 (13.9)	25.85	25.85	23.27	1.71	20.74	1.81	18.28	1.92	15.90	2.05	13.62	2.19
	62 (16.7)	26.90	23.34	21.18	1.71	21.23	1.81	18.53	1.92	15.97	2.05	13.65	2.20
700	63 (17.2)††	27.40	19.08	17.23	1.71	21.59	1.81	18.83	1.92	16.18	2.05	13.67	2.20
	67 (19.4)	29.63	19.84	17.93	1.73	23.35	1.83	20.38	1.93	17.52	2.06	14.82	2.21
	72 (22.2)	32.84	16.28	14.63	1.74	25.73	1.84	22.46	1.95	19.33	2.08	16.37	2.22
	57 (13.9)	26.50	26.50	23.85	1.72	21.24	1.82	18.71	1.93	16.26	2.06	13.93	2.20
	62 (16.7)	27.30	24.28	22.04	1.72	21.59	1.82	18.80	1.93	16.29	2.06	13.95	2.20
	63 (17.2)††	27.76	19.72	17.82	1.72	21.86	1.82	19.04	1.93	16.35	2.06	13.82	2.20
750	67 (19.4)	30.00	20.53	18.56	1.73	23.63	1.83	20.59	1.94	17.70	2.07	14.96	2.21
	72 (22.2)	33.03	16.71	15.02	1.75	26.01	1.85	22.68	1.96	19.51	2.08	16.51	2.23
	57 (13.9)	27.10	27.10	24.38	1.73	21.70	1.83	19.10	1.94	16.60	2.07	14.20	2.21
	62 (16.7)	27.85	25.20	22.88	1.73	21.82	1.83	19.13	1.94	16.62	2.07	14.22	2.21
	63 (17.2)††	28.08	20.35	18.40	1.73	22.09	1.83	19.23	1.94	16.51	2.07	13.94	2.21
	67 (19.4)	30.34	21.20	19.18	1.74	23.86	1.84	20.78	1.95	17.85	2.08	15.08	2.22
800	72 (22.2)	33.37	17.13	15.40	1.76	26.25	1.85	22.88	1.96	19.67	2.09	16.63	2.24
	57 (13.9)	27.50	27.50	24.72	1.74	22.00	1.83	19.36	1.95	16.81	2.07	14.38	2.22
	62 (16.7)	27.89	25.83	23.45	1.74	22.03	1.83	19.39	1.95	16.84	2.07	14.40	2.22
	63 (17.2)††	28.29	20.79	18.80	1.74	22.23	1.84	19.35	1.95	16.61	2.07	14.02	2.22
	67 (19.4)	30.54	21.66	19.61	1.75	24.00	1.85	20.90	1.96	17.95	2.08	15.16	2.23
	72 (22.2)	33.58	17.41	15.67	1.76	26.39	1.86	23.00	1.97	19.77	2.10	16.70	2.24
900	57 (13.9)	28.17	28.17	25.31	1.75	22.51	1.85	19.79	1.96	17.18	2.08	14.67	2.23
	62 (16.7)	28.32	26.95	25.34	1.75	22.55	1.85	19.82	1.96	17.20	2.08	14.70	2.23
	63 (17.2)††	28.63	21.58	19.52	1.75	22.47	1.85	19.55	1.96	16.77	2.08	14.15	2.23
	67 (19.4)	30.88	22.51	20.38	1.76	24.24	1.86	21.10	1.97	18.11	2.09	15.28	2.24
	72 (22.2)	33.93	17.93	16.14	1.78	26.64	1.87	23.20	1.98	19.92	2.11	16.82	2.25

See notes on page 14

DETAILED COOLING CAPACITIES# (CONTINUED)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		CFM	EWB ° F (° C)	Capacity MBTuh		Total Sys. KW**	Capacity MBTuh		Total Sys. KW**	Capacity MBTuh		Total Sys. KW**	Capacity MBTuh		Total Sys. KW**	Capacity MBTuh		Total Sys. KW**	
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		
	57 (13.9)	17.62	17.62	1.05	16.16	14.68	14.68	1.48	13.20	13.20	1.76	11.79	11.79	2.07	10.43	10.43	2.44		
	62 (16.7)	18.73	15.76	1.04	17.00	14.15	12.56	1.48	13.57	11.03	1.75	11.95	9.57	2.07	10.46	10.45	2.44		
450	63 (17.2)††	19.10	13.04	1.04	17.34	11.64	1.24	15.56	10.27	1.47	13.83	8.95	1.75	12.16	7.70	10.58	6.53	2.44	
	67 (19.4)	20.70	13.55	1.02	18.79	12.11	1.22	16.89	10.70	1.46	15.02	9.35	1.73	13.24	8.06	11.55	6.85	2.43	
	72 (22.2)	22.95	11.31	1.00	20.84	10.04	1.20	18.74	8.82	1.44	16.71	7.65	1.71	14.76	6.54	12.91	5.51	2.42	
	57 (13.9)	18.38	18.38	1.05	16.84	16.84	1.25	15.28	13.74	1.48	13.74	13.74	1.75	12.25	12.25	10.84	10.84	2.44	
	62 (16.7)	19.20	16.75	1.04	17.41	15.05	1.24	15.63	13.38	1.48	13.90	11.76	1.75	12.28	12.28	10.85	10.85	2.44	
500	63 (17.2)††	19.56	13.72	1.04	17.73	12.26	1.24	15.90	10.83	1.48	14.11	9.45	1.75	12.40	8.15	10.78	6.92	2.44	
	67 (19.4)	21.19	14.29	1.02	19.21	12.78	1.22	17.25	11.30	1.46	15.33	9.89	1.74	13.49	8.54	11.76	7.27	2.44	
	72 (22.2)	23.47	11.79	1.00	21.29	10.47	1.20	19.13	9.20	1.44	17.03	7.99	1.72	15.02	6.85	13.12	5.78	2.43	
	57 (13.9)	19.06	19.06	1.05	17.44	17.44	1.25	15.81	15.81	1.48	14.21	14.21	1.75	12.66	12.66	11.19	11.19	2.44	
	62 (16.7)	19.60	17.71	1.04	17.77	15.93	1.24	15.96	14.17	1.48	14.23	14.23	1.75	12.68	12.68	11.21	11.21	2.45	
550	63 (17.2)††	19.94	14.38	1.04	18.06	12.86	1.24	16.16	11.37	1.48	14.34	9.94	1.75	12.59	8.58	10.94	7.29	2.45	
	67 (19.4)	21.60	15.00	1.02	19.57	13.42	1.22	17.55	11.89	1.46	15.58	10.42	1.74	13.70	9.01	11.93	7.68	2.44	
	72 (22.2)	23.90	12.24	1.00	21.66	10.89	1.20	19.44	9.57	1.44	17.29	8.32	1.72	15.24	7.14	13.30	6.04	2.43	
	57 (13.9)	19.68	19.68	1.05	17.98	17.98	1.25	16.28	16.28	1.48	14.62	14.62	1.75	13.02	13.02	11.50	11.50	2.45	
	62 (16.7)	19.96	18.65	1.04	18.11	16.78	1.24	16.31	16.31	1.48	14.65	14.65	1.75	13.04	13.04	11.52	11.52	2.45	
600	63 (17.2)††	20.26	15.03	1.04	18.33	13.45	1.24	16.41	11.90	1.48	14.54	10.42	1.76	12.76	9.00	11.08	7.67	2.45	
	67 (19.4)	21.94	15.69	1.03	19.86	14.06	1.23	17.80	12.47	1.46	15.79	10.93	1.74	13.88	9.47	12.08	8.09	2.45	
	72 (22.2)	24.26	12.88	1.00	21.96	11.29	1.20	19.70	9.94	1.44	17.50	8.65	1.72	15.41	7.44	13.44	6.30	2.44	
	57 (13.9)	20.20	20.20	1.05	18.48	18.48	1.25	16.71	16.71	1.48	15.00	15.00	1.76	13.35	13.35	11.78	11.78	2.45	
	62 (16.7)	20.31	19.56	1.05	18.49	18.49	1.25	16.74	16.74	1.48	15.02	15.02	1.76	13.37	13.37	11.80	11.80	2.45	
650	63 (17.2)††	20.54	15.66	1.05	18.58	14.03	1.25	16.62	12.42	1.48	14.72	10.89	1.76	12.90	9.42	11.21	8.03	2.46	
	67 (19.4)	22.24	16.37	1.03	20.11	14.68	1.23	18.01	13.03	1.47	15.97	11.44	1.75	14.03	9.92	12.21	8.48	2.45	
	72 (22.2)	24.57	13.12	1.00	22.22	11.68	1.20	19.91	10.29	1.44	17.68	8.97	1.73	15.56	7.72	13.56	6.54	2.45	
	57 (13.9)	20.41	20.41	1.05	18.64	18.64	1.25	16.87	16.87	1.48	15.14	15.14	1.76	13.47	13.47	11.88	11.88	2.46	
	62 (16.7)	20.46	20.36	1.05	18.67	18.67	1.25	16.90	16.90	1.48	15.16	15.16	1.76	13.49	13.49	11.90	11.90	2.46	
670	63 (17.2)††	20.64	15.91	1.05	18.66	14.25	1.25	16.69	12.63	1.48	14.78	11.07	1.76	12.96	9.58	11.26	8.17	2.46	
	67 (19.4)	22.94	16.64	1.03	20.20	14.92	1.23	18.09	13.25	1.47	16.04	11.64	1.75	14.09	10.10	12.26	8.64	2.45	
	72 (22.2)	24.67	13.29	1.01	22.31	11.84	1.21	19.99	10.43	1.45	17.75	9.09	1.73	15.61	7.83	13.60	6.64	2.45	
	57 (13.9)	20.70	20.70	1.05	18.90	18.90	1.25	17.10	17.10	1.48	15.34	15.34	1.76	13.64	13.64	12.03	12.03	2.46	
	62 (16.7)	20.73	20.73	1.05	18.93	18.93	1.25	17.13	17.13	1.48	15.36	15.36	1.76	13.66	13.66	12.05	12.05	2.46	
700	63 (17.2)††	20.79	16.28	1.05	18.79	14.59	1.25	16.80	12.94	1.49	14.87	11.35	1.77	13.04	9.83	11.33	8.38	2.47	
	67 (19.4)	22.49	17.03	1.03	20.33	15.28	1.23	18.20	13.58	1.47	16.13	11.93	1.75	14.16	10.36	12.33	8.87	2.46	
	72 (22.2)	24.82	13.53	1.01	22.44	12.06	1.21	20.10	10.64	1.45	17.92	9.28	1.73	15.69	7.99	13.66	6.78	2.45	

See notes on page 14

CONDENSER ONLY RATINGS*

SST ° F (° C)		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)							
		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
24ANB724A**31 – High									
30 (-1.11)	TCG	28.00	25.00	21.90	18.90	16.00	13.30	10.70	8.50
	SDT	71.60	81.50	91.40	101.20	111.00	120.80	130.80	140.90
	KW	1.20	1.30	1.40	1.51	1.63	1.76	1.92	2.11
35 (1.67)	TCG	31.20	27.70	24.30	21.00	17.80	14.80	12.10	9.60
	SDT	73.20	83.00	92.80	102.60	112.40	122.20	132.10	142.10
	KW	1.23	1.33	1.43	1.53	1.65	1.79	1.95	2.14
40 (4.44)	TCG	34.60	30.70	26.90	23.20	19.80	16.50	13.50	10.70
	SDT	74.80	84.60	94.40	104.10	113.90	123.50	133.40	143.30
	KW	1.25	1.35	1.45	1.56	1.68	1.82	1.98	2.17
45 (7.22)	TCG	38.20	33.90	29.70	25.70	21.90	18.30	15.00	12.00
	SDT	76.60	86.30	96.00	105.70	115.20	124.90	134.70	144.60
	KW	1.28	1.38	1.48	1.58	1.70	1.84	2.01	2.20
50 (10.0)	TCG	42.00	37.30	32.60	28.30	24.10	20.20	16.60	13.40
	SDT	78.40	88.00	97.60	107.10	116.70	126.30	136.00	145.90
	KW	1.31	1.40	1.50	1.60	1.72	1.87	2.03	2.23
55 (12.78)	TCG	46.10	40.90	35.80	31.00	26.50	22.30	18.40	14.80
	SDT	80.20	89.70	99.20	108.60	118.10	127.70	137.40	147.10
	KW	1.34	1.43	1.52	1.63	1.75	1.89	2.06	2.26
60 (15.56)	TCG	50.50	44.70	39.20	33.90	29.00	24.40	20.20	16.30
	SDT	82.00	91.40	100.80	110.20	119.70	129.20	138.80	148.40
	KW	1.37	1.45	1.54	1.65	1.77	1.92	2.09	2.28
24ANB724A**31 – Low									
30 (-1.11)	TCG	13.50	13.60	13.30	12.80	12.20	11.30	10.40	9.40
	SDT	66.80	76.80	86.70	96.50	106.30	116.00	125.70	135.70
	KW	0.77	0.89	1.03	1.18	1.35	1.53	1.74	1.96
35 (1.67)	TCG	15.20	15.20	14.90	14.40	13.70	12.90	11.90	10.90
	SDT	68.00	78.00	87.90	97.70	107.40	117.10	126.90	136.90
	KW	0.77	0.89	1.02	1.17	1.34	1.53	1.74	1.98
40 (4.44)	TCG	16.90	16.90	16.60	16.00	15.30	14.50	13.50	12.50
	SDT	69.30	79.30	89.00	98.80	108.50	118.20	128.10	138.10
	KW	0.76	0.88	1.01	1.17	1.34	1.53	1.75	1.99
45 (7.22)	TCG	18.80	18.70	18.30	17.80	17.00	16.20	15.20	14.10
	SDT	70.60	80.50	90.30	100.00	109.70	119.40	129.20	139.20
	KW	0.75	0.87	1.00	1.16	1.33	1.53	1.76	2.01
50 (10.0)	TCG	20.80	20.60	20.20	19.60	18.90	18.00	17.00	15.90
	SDT	72.00	81.80	91.50	101.20	110.80	120.50	130.40	140.30
	KW	0.74	0.86	0.99	1.15	1.33	1.53	1.76	2.02
55 (12.78)	TCG	22.90	22.70	22.20	21.60	20.80	19.90	18.80	17.80
	SDT	73.40	83.20	92.80	102.40	112.10	121.70	131.50	141.40
	KW	0.73	0.84	0.98	1.14	1.32	1.53	1.77	2.03
60 (15.56)	TCG	25.10	24.80	24.30	23.70	22.80	21.90	20.80	19.70
	SDT	74.90	84.60	94.10	103.70	113.30	122.90	132.60	142.40
	KW	0.72	0.83	0.97	1.13	1.32	1.53	1.77	2.04
24ANB736A**31 – High									
30 (-1.11)	TCG	34.80	32.30	29.80	27.40	25.00	22.60	20.10	17.60
	SDT	71.10	80.60	90.10	99.60	109.10	118.50	127.80	137.20
	KW	1.72	1.87	2.04	2.25	2.47	2.72	3.00	3.29
35 (1.67)	TCG	38.50	35.70	33.10	30.40	27.80	25.10	22.40	19.60
	SDT	72.60	82.00	91.50	100.90	110.30	119.70	129.00	138.20
	KW	1.76	1.91	2.08	2.28	2.50	2.76	3.03	3.33
40 (4.44)	TCG	42.40	39.40	36.50	33.60	30.70	27.80	24.80	21.80
	SDT	74.20	83.60	93.00	102.40	111.70	120.90	130.10	139.20
	KW	1.81	1.95	2.11	2.31	2.53	2.79	3.06	3.37
45 (7.22)	TCG	46.50	43.30	40.20	37.00	33.90	30.70	27.50	24.20
	SDT	75.90	85.20	94.50	103.80	113.00	122.20	131.30	140.30
	KW	1.87	1.99	2.15	2.34	2.57	2.82	3.10	3.40
50 (10.0)	TCG	50.90	47.50	44.00	40.60	37.20	33.80	30.30	26.70
	SDT	77.60	86.80	96.10	105.30	114.40	123.50	132.50	141.40
	KW	1.92	2.04	2.19	2.38	2.60	2.85	3.13	3.44
55 (12.78)	TCG	55.50	51.80	48.10	44.50	40.80	37.00	33.20	29.40
	SDT	79.40	88.50	97.70	106.80	115.90	124.90	133.80	142.60
	KW	1.99	2.09	2.24	2.42	2.64	2.89	3.17	3.47
60 (15.56)	TCG	60.40	56.40	52.50	48.50	44.50	40.40	36.40	32.30
	SDT	81.20	90.20	99.30	108.40	117.40	126.30	135.00	143.80
	KW	2.05	2.15	2.29	2.47	2.68	2.93	3.20	3.51

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CONDENSER ONLY RATINGS* CONTINUED

SST ° F (° C)		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)							
		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
24ANB736A**31 – Low									
30 (-1.11)	TCG	20.70	20.10	19.50	18.80	18.00	16.90	15.60	14.10
	SDT	65.70	75.40	85.10	94.80	104.50	114.10	123.60	133.10
	KW	1.18	1.31	1.47	1.66	1.88	2.13	2.43	2.78
35 (1.67)	TCG	23.10	22.40	21.80	21.00	20.10	19.00	17.60	16.00
	SDT	66.80	76.50	86.10	95.80	105.40	115.00	124.50	134.00
	KW	1.16	1.30	1.46	1.65	1.87	2.12	2.42	2.76
40 (4.44)	TCG	25.60	25.00	24.20	23.40	22.40	21.20	19.80	18.10
	SDT	68.00	77.60	87.30	96.90	106.50	116.00	125.40	134.90
	KW	1.13	1.28	1.45	1.64	1.86	2.11	2.41	2.75
45 (7.22)	TCG	28.40	27.70	26.90	26.00	24.90	23.70	22.10	20.30
	SDT	69.30	78.80	88.40	98.00	107.50	117.00	126.40	135.80
	KW	1.11	1.26	1.43	1.63	1.85	2.10	2.40	2.73
50 (10.0)	TCG	31.40	30.60	29.70	28.70	27.60	26.20	24.60	22.70
	SDT	70.60	80.10	89.60	99.20	108.60	118.00	127.40	136.70
	KW	1.08	1.24	1.42	1.61	1.84	2.09	2.39	2.72
55 (12.78)	TCG	34.60	33.70	32.70	31.70	30.40	29.00	27.30	25.30
	SDT	72.00	81.50	90.90	100.40	109.80	119.10	128.40	137.60
	KW	1.06	1.22	1.40	1.60	1.83	2.08	2.38	2.71
60 (15.56)	TCG	38.10	37.00	36.00	34.80	33.50	31.90	30.10	28.00
	SDT	73.50	82.90	92.30	101.60	111.00	120.20	129.40	138.60
	KW	1.03	1.20	1.38	1.59	1.82	2.07	2.36	2.69
24ANB748A**31 – High									
30 (-1.11)	TCG	44.30	42.30	39.70	36.70	33.50	30.30	27.10	24.20
	SDT	69.60	79.40	88.90	98.30	107.70	117.10	126.50	136.00
	KW	2.00	2.27	2.56	2.88	3.24	3.67	4.16	4.76
35 (1.67)	TCG	49.40	47.10	44.10	40.80	37.30	33.80	30.40	27.20
	SDT	71.20	80.80	90.30	99.60	108.90	118.20	127.60	137.00
	KW	2.04	2.31	2.60	2.91	3.28	3.70	4.21	4.80
40 (4.44)	TCG	54.80	52.00	48.70	45.10	41.30	37.50	33.90	30.40
	SDT	72.80	82.30	91.60	100.90	110.20	119.40	128.70	138.00
	KW	2.08	2.35	2.63	2.95	3.32	3.75	4.25	4.86
45 (7.22)	TCG	60.40	57.20	53.50	49.60	45.50	41.40	37.50	33.80
	SDT	74.40	83.80	93.00	102.20	111.40	120.60	129.80	139.10
	KW	2.12	2.38	2.67	2.99	3.36	3.79	4.31	4.91
50 (10.0)	TCG	66.10	62.60	58.60	54.30	49.90	45.50	41.40	37.40
	SDT	76.00	85.30	94.50	103.60	112.70	121.80	131.00	140.20
	KW	2.15	2.41	2.70	3.02	3.40	3.84	4.36	4.98
55 (12.78)	TCG	72.10	68.10	63.80	59.10	54.40	49.80	45.30	41.10
	SDT	77.60	86.80	95.90	105.00	114.00	123.10	132.10	141.30
	KW	2.18	2.44	2.73	3.06	3.44	3.89	4.42	5.04
60 (15.56)	TCG	78.20	73.80	69.10	64.10	59.10	54.20	49.50	44.90
	SDT	79.30	88.40	97.40	106.40	115.40	124.30	133.30	142.30
	KW	2.20	2.46	2.76	3.09	3.48	3.94	4.48	5.11
24ANB748A**31 – Low									
30 (-1.11)	TCG	27.10	26.70	25.90	24.60	23.00	21.00	18.70	16.20
	SDT	65.00	74.70	84.40	93.90	103.40	112.80	122.20	131.50
	KW	1.44	1.66	1.90	2.18	2.49	2.84	3.25	3.71
35 (1.67)	TCG	30.20	29.70	28.80	27.50	25.90	23.80	21.50	18.80
	SDT	66.00	75.70	85.30	94.80	104.30	113.70	123.10	132.40
	KW	1.41	1.64	1.88	2.16	2.47	2.83	3.23	3.69
40 (4.44)	TCG	33.50	33.00	32.10	30.70	29.00	26.90	24.40	21.70
	SDT	67.10	76.80	86.30	95.80	105.30	114.60	124.00	133.30
	KW	1.38	1.61	1.86	2.14	2.45	2.81	3.22	3.68
45 (7.22)	TCG	37.00	36.50	35.60	34.20	32.40	30.20	27.70	24.80
	SDT	68.30	77.90	87.40	96.90	106.30	115.60	124.90	134.10
	KW	1.35	1.58	1.84	2.12	2.44	2.79	3.20	3.66
50 (10.0)	TCG	40.90	40.30	39.40	37.90	36.10	33.80	31.20	28.20
	SDT	69.50	79.10	88.60	98.00	107.40	116.60	125.80	135.00
	KW	1.32	1.56	1.81	2.10	2.42	2.78	3.18	3.64
55 (12.78)	TCG	45.00	44.50	43.50	42.00	40.10	37.80	35.00	31.90
	SDT	70.90	80.40	89.80	99.20	108.50	117.70	126.90	136.00
	KW	1.29	1.53	1.79	2.08	2.40	2.76	3.16	3.62
60 (15.56)	TCG	49.60	49.00	47.90	46.40	44.40	42.00	39.20	35.90
	SDT	72.30	81.80	91.10	100.40	109.70	118.80	127.90	137.00
	KW	1.26	1.50	1.77	2.06	2.38	2.74	3.15	3.60

See notes on page 17

CONDENSER ONLY RATINGS* CONTINUED

SST ° F (° C)		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)							
		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
24ANB760AB032 – High									
30 (-1.11)	TCG	49.90	47.90	45.90	43.90	41.70	39.30	36.50	33.30
	SDT	72.70	81.80	91.10	100.50	109.90	119.20	128.50	137.70
	KW	2.48	2.75	3.06	3.41	3.81	4.27	4.78	5.36
35 (1.67)	TCG	55.00	52.80	50.70	48.60	46.20	43.60	40.60	37.10
	SDT	74.30	83.40	92.60	101.90	111.20	120.40	129.60	138.80
	KW	2.54	2.80	3.11	3.46	3.86	4.32	4.85	5.44
40 (4.44)	TCG	60.50	58.20	55.90	53.60	51.00	48.20	44.90	41.30
	SDT	76.00	85.00	94.20	103.40	112.60	121.70	130.80	139.90
	KW	2.60	2.86	3.16	3.51	3.92	4.38	4.91	5.51
45 (7.22)	TCG	66.40	63.90	61.50	59.00	56.20	53.10	49.60	45.70
	SDT	77.80	86.70	95.80	104.90	114.00	123.10	132.10	141.10
	KW	2.67	2.92	3.22	3.57	3.98	4.45	4.98	5.58
50 (10.0)	TCG	72.70	70.10	67.50	64.70	61.70	58.40	54.60	50.40
	SDT	79.70	88.60	97.50	106.50	115.50	124.50	133.40	142.20
	KW	2.75	2.99	3.29	3.64	4.05	4.52	5.05	5.66
55 (12.78)	TCG	79.60	76.70	73.90	70.80	67.60	64.00	59.90	55.40
	SDT	81.80	90.50	99.40	108.30	117.10	126.00	134.80	143.50
	KW	2.83	3.07	3.36	3.71	4.12	4.59	5.13	5.74
60 (15.56)	TCG	86.80	83.80	80.70	77.40	73.90	69.90	65.60	60.80
	SDT	84.00	92.60	101.30	110.00	118.80	127.50	136.10	144.70
	KW	2.91	3.15	3.44	3.79	4.20	4.67	5.21	5.82
24ANB760AB032 – Low									
30 (-1.11)	TCG	33.30	32.50	31.00	29.00	26.50	23.70	20.70	17.50
	SDT	66.60	76.30	85.90	95.30	104.70	113.90	123.10	132.30
	KW	1.73	1.97	2.23	2.53	2.87	3.24	3.66	4.13
35 (1.67)	TCG	37.30	36.30	34.70	32.50	29.90	27.00	23.90	20.50
	SDT	67.80	77.50	87.10	96.50	105.70	115.00	124.10	133.30
	KW	1.71	1.95	2.22	2.52	2.86	3.24	3.66	4.13
40 (4.44)	TCG	41.50	40.40	38.60	36.30	33.60	30.50	27.20	23.70
	SDT	69.20	78.80	88.30	97.60	106.90	116.00	125.10	134.30
	KW	1.68	1.93	2.20	2.51	2.85	3.23	3.66	4.13
45 (7.22)	TCG	46.10	44.70	42.80	40.40	37.50	34.30	30.80	27.10
	SDT	70.60	80.20	89.50	98.80	108.00	117.10	126.20	135.20
	KW	1.66	1.91	2.19	2.50	2.84	3.23	3.65	4.13
50 (10.0)	TCG	50.90	49.40	47.30	44.70	41.70	38.30	34.70	30.80
	SDT	72.10	81.50	90.80	100.00	109.20	118.20	127.20	136.30
	KW	1.63	1.89	2.17	2.48	2.83	3.21	3.64	4.12
55 (12.78)	TCG	56.10	54.30	52.10	49.30	46.10	42.50	38.70	34.70
	SDT	73.60	83.00	92.20	101.30	110.40	119.40	128.40	137.30
	KW	1.60	1.86	2.14	2.46	2.81	3.20	3.64	4.11
60 (15.56)	TCG	61.50	59.60	57.10	54.20	50.80	47.00	43.00	38.80
	SDT	75.20	84.40	93.60	102.60	111.70	120.60	129.50	138.40
	KW	1.57	1.83	2.12	2.44	2.79	3.19	3.62	4.10

* AHRI listing applies only to systems shown in Combination Ratings table.

KW – Outdoor Unit Kilowatts Only.

SDT – Saturated Temperature Leaving Compressor (° F)

SST – Saturated Temperature Entering Compressor (° F/° C)

TCG – Gross Cooling Capacity (1000 Btuh)

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 AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI 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

24ANB7

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.

Condenser Coil

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

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, 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/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

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

Special Features

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

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. The maximum outdoor operating ambient in cooling mode is 125°F (51.67°C) when operating voltage is 230v. For 208v applications, the maximum outdoor ambient is 120°F (48.9°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory-supplied filter drier must be installed.

