

**123A
PREFERRED™ SERIES 13 AIR CONDITIONER
WITH PURON® REFRIGERANT
1-1/2 TO 5 NOMINAL TONS (SIZE 018 TO 060)**



Product Data



Bryant's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. Air Conditioner model 123A has been designed utilizing Bryant'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

- 13 - 15 SEER/11 - 12 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

SOUND

- Sound level as low as 74 dBA

COMFORT

- System supports Thermidistat™ Control or standard thermostat

RELIABILITY

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

DURABILITY

DuraGuard Plus™ 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 (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F/-28.9°C) with accessory kit

MODEL NUMBER NOMENCLATURE

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



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

Feature	18	24	30	36	42	48	60
Puron Refrigerant	X	X	X	X	X	X	X
Up to 14.5 SEER / 11.5 EER	X	X	X	X	X	X	
Scroll Compressor	X	X	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X	X	X
Field – Installed Filter Drier	X	X	X	X	X	X	X
Front – Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure – Relief Valve	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X
Low Ambient capability with Kit	X	X	X	X	X	X	X
Low – Pressure Switch	X	X	X	X	X	X	X
High – Pressure Switch	X	X	X	X	X	X	X
Compressor Sound Blanket	X	X	X	X	X	X	X

X = Standard

PHYSICAL DATA

UNIT SIZE SERIES	018-C	024-C	030-C	036-C	042-C	048-C	060-D
Operating Weight lb (kg)	135 (61.2)	135 (61.2)	149 (67.6)	166 (75.3)	210 (95.3)	236 (107.0)	261 (118.4)
Shipping Weight lb (kg)	156 (70.8)	156 (70.8)	171 (77.6)	189 (85.7)	238 (108.0)	264 (119.7)	295 (133.8)
Compressor Type	Scroll						
REFRIGERANT	Puron® (R-410A)						
Control	TXV (Puron® Hard Shutoff)						
Charge lb (kg)	3.57 (1.62)	3.72 (1.69)	4.50 (2.04)	5.05 (2.29)	5.84 (2.65)	8.00 (3.63)	8.44 (3.83)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1880	2200	2200	2950	3170	3365	4050
Motor HP	1/12	1/10	1/10	1/4	1/5	1/4	1/4
Motor RPM	1100	1100	1100	1100	825	825	825
COND COIL							
Face Area (Sq. ft.)	9.85	9.85	11.49	14.77	17.25	21.56	25.15
Fins per In.	20	20	25	25	25	25	25
Rows	1	1	1	1	1	1	1
Circuits	3	3	3	3	4	5	5
VALVE CONNECT. (In. ID)							
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8
Liquid	3/8						
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	5/8	5/8	3/4	3/4	7/8	7/8	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.

Note: See unit Installation Instruction for proper installation.

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

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

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

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)								
			Standard Application		Long Line Application Requires Accessories						
			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 (46.0-53.3)	176-200 (53.6-61.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
18000 1 Stage Puron AC	3/8	1/2	1	2	3	4	6	7	8	9	10
		5/8	0	0	1	1	1	2	2	3	3
24000 1 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
		7/8	0	0	0	0	0	0	0	0	0
30000 1 Stage Puron AC	3/8	5/8	1	2	3	3	4	5	6	7	8
		3/4	0	0	1	1	1	2	2	2	3
		7/8	0	0	0	0	1	1	1	1	1
36000 1 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
42000 1 Stage Puron AC	3/8	3/4	0	1	2	2	3	4	4	5	6
		7/8	0	0	1	1	1	2	2	2	3
		1 1/8	0	0	0	0	0	0	0	0	0
48000 1 Stage Puron AC	3/8	3/4	0	1	2	3	4	5	5	6	7
		7/8	0	0	1	1	2	2	2	3	3
		1 1/8	0	0	0	0	0	0	0	1	1
60000 1 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 are long line. Accessories are required as shown recommended on Long Line Application Guidelines

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

ACCESSORIES

ORDER NUMBER	DESCRIPTION	018-C	024-C	030-C	036-C	042-C	048-C	060-D
KAACH1201AAA	CRANKCASE HTR					X	X	X
KAACH1401AAA	CRANKCASE HTR	X	X	X	X			
KSACY0101AAA	CYCLE PROTECTOR	X	X	X	X	X	X	X
KAAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X	X	X	X
KSAS1701AAA	HARD START (CAP / RELAY)	X	X	X	X	X	X	X
KSALA0301410	LOW AMBIENT PSW	X	X	X	X	X	X	X
HC32GE234	MOTOR FAN BALL BEARING 230V	X						
HC34GE239	MOTOR FAN BALL BEARING 230V		X	X				
HC40GE226	MOTOR FAN BALL BEARING 230V				X			
HC38GE228	MOTOR FAN BALL BEARING 230V					X		
HC40GE228	MOTOR FAN BALL BEARING 230V						X	X
KSALA0601AAA	MOTORMASTER 230V	X	X	X	X	X	X	X
KAALS0201LLS	SOLENOID VALVE	X	X	X	X	X	X	X
KAACS0201PTC	START ASSIST PTC	X	X	X	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X	X	X	X
KAATD0101TDR	TIME DELAY RELAY	X	X	X	X	X	X	X
KSATX0201PUR	TXV PURON HSO	X	X	X				
KSATX0301PUR	TXV PURON HSO				X	X		
KSATX0401PUR	TXV PURON HSO						X	
KSATX0501PUR	TXV PURON HSO							X
KAAWS0101AAA	WINTER START	X	X	X	X	X	X	X

x = Accessory

ACCESSORY THERMOSTATS

PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT	COOL
T2-PAC01	5-2 Day	√	√	1	1
T2-NAC01	NP	√	√	1	1
T2SNAC01	NP	√	√	1	1

THERMOSTAT ACCESSORIES		
PART NUMBER	BRIEF DESCRIPTION	THERMOSTATS USED WITH
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) – 10 pk	All Bryant® branded thermostats
TX-LBP01	Large Decorative Backplate	T6-Pxx, T6-Nxx, and T2-Pxx
TX-MBP01	Medium Decorative Backplate	T2-Nxx and T1-Pxx

ACCESSORY USAGE GUIDELINE

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

* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Split-System Longline Application Guideline.

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

ACCESSORY DESCRIPTION AND USAGE (LISTED ALPHABETICALLY)

1. Ball-Bearing Fan Motor

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

Usage Guideline:

Required on all units when using MotorMaster®

2. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

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

Long line

Low-ambient cooling

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

3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

4. Crankcase Heater

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

Usage Guideline:

Required in Low-ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

5. Cycle Protector

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

6. Evaporator Freeze Thermostat

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

Usage Guideline:

Required when Low-ambient kit has been added.

7. Low-Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch must be used when cooling operation is at outdoor temperatures below 55°F (12.8°C) to a minimum of 0°F (-17.8°C).

Suggested for all commercial applications.

8. MotorMaster® Low-Ambient Controller

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

Usage Guideline:

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

Suggested for all commercial applications.

ACCESSORY DESCRIPTION AND USAGE (LISTED ALPHABETICALLY) (CONT)

9. Outdoor Air Temperature Sensor

Designed for use with Bryant Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also

is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Bryant thermostats listed in this publication.

10. 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.

11. 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 shutoff types are available.

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

Usage Guideline:

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

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

Required for use on all zoning systems.

12. Time-Delay Relay

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

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

Usage Guideline:

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

13. Winter Start Control

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

ELECTRICAL DATA

UNIT SIZE – VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH ft (m)‡	MAX LENGTH ft (m)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN.	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
018–C	208–230–1	253	197	48.0	9.0	0.5	11.8	14	14	67 (20.4)	64 (19.5)	15
024–C				58.3	13.5	0.75	17.6	14	14	45 (13.7)	43 (13.1)	25
030–C				64.0	12.8	0.75	16.8	14	14	47 (14.3)	45 (13.7)	25
036–C				77.0	14.1	1.4	19.0	12	12	66 (20.1)	63 (19.2)	30
042–C				112.0	17.9	1.2	23.6	12	12	53 (16.2)	51 (15.5)	40
048–C				109.0	19.9	1.2	26.2	10	10	76 (23.2)	73 (22.3)	40
060–D				134.0	26.4	1.2	34.2	8	8	91 (27.7)	86 (26.2)	50

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

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

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

** Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

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

Complies with 2007 requirements of ASHRAE Standards 90.1

123A

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
018–C	74	50.0	61.5	64.5	66.5	64.0	61.0	54.5
024–C	75	55.5	63.5	67.0	70.0	66.0	63.5	57.0
030–C	74	52.5	63.0	68.5	70.0	66.5	62.5	56.5
036–C	75	57.0	65.0	67.5	69.5	67.5	65.0	60.0
042–C	74	55.0	64.0	68.0	68.5	64.5	60.0	54.0
048–C	74	52.5	62.5	65.5	69.0	63.5	60.5	56.0
060–D	74	54.0	59.0	65.5	67.5	63.5	60.0	55.5

NOTE: Tested in accordance with AHRI Standard 270–2008 (not listed in AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

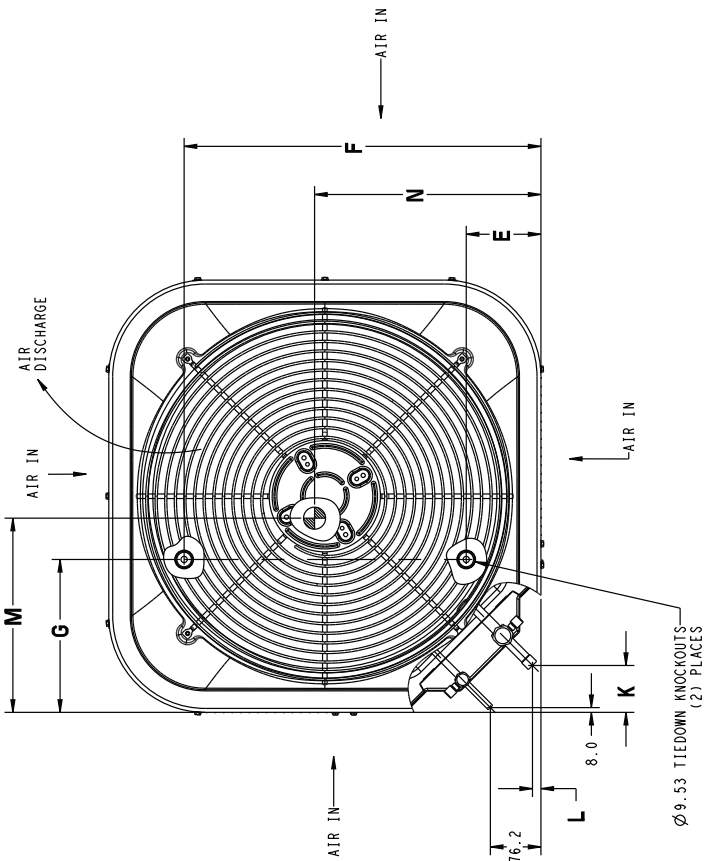
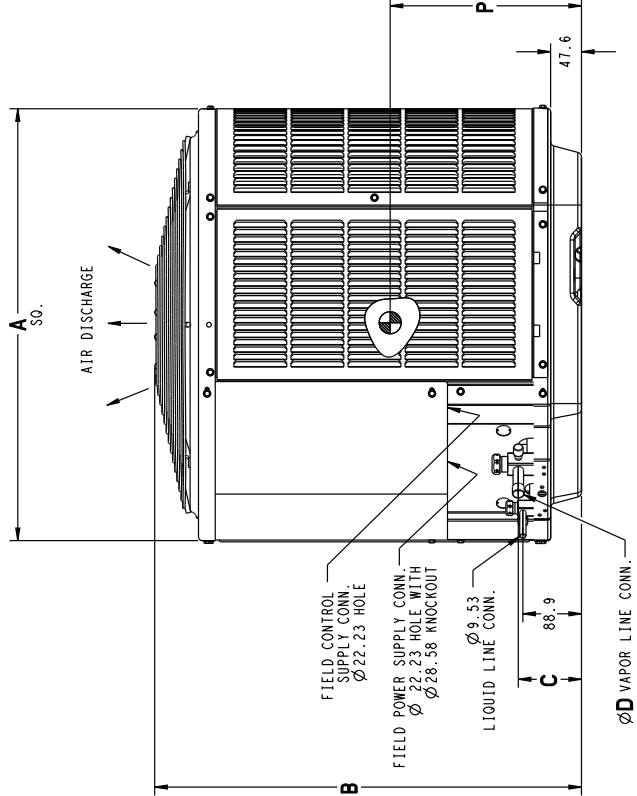
UNIT SIZE – VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
018–C	8 (4.4)
024–C	13 (7.2)
030–C	16 (8.9)
036–C	16 (8.9)
042–C	10 (5.6)
048–C	17 (9.4)
060–D	11 (6.1)

DIMENSIONS - SI

UNIT	SERIES	ELECTRICAL CHARACTERISTICS		A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (Kgs)	SHIPPING WEIGHT (Kgs)	SHIPPING DIMENSIONS (L x W x H)	
123A018	C	X	O	O	O	654.0	95.2	15.9	112.7	539.8	231.8	71.4	12.7	317.5	314.3	314.3	59.0	68.5	682.6 X 763.6 X 827.1
123A024	C	X	O	O	O	654.0	95.2	15.9	112.7	539.8	231.8	71.4	12.7	330.2	301.6	314.3	59.0	68.5	682.6 X 763.6 X 827.1
123A030	C	X	O	O	O	654.0	722.3	95.2	19.0	112.7	539.8	231.8	71.4	311.2	349.2	323.8	64.4	74.4	682.6 X 763.6 X 827.1
123A036	C	X	O	O	O	654.0	895.4	95.2	19.0	112.7	539.8	231.8	71.4	304.8	330.2	374.6	73.0	83.5	682.6 X 763.6 X 1000.1
123A042	C	X	O	O	O	792.2	820.8	98.4	22.2	166.7	627.1	231.8	74.6	400.0	412.8	349.2	93.0	105.7	822.3 X 901.7 X 912.8
123A048	C	X	O	O	O	792.2	993.8	98.4	22.2	166.7	627.1	231.8	74.6	362.0	438.2	489.0	103.4	116.1	822.3 X 901.7 X 1085.8
123A060	D	X	O	O	O	889.0	993.8	98.4	22.2	166.7	722.3	231.8	74.6	523.9	501.6	466.7	113.8	129.3	917.6 X 998.6 X 1085.8

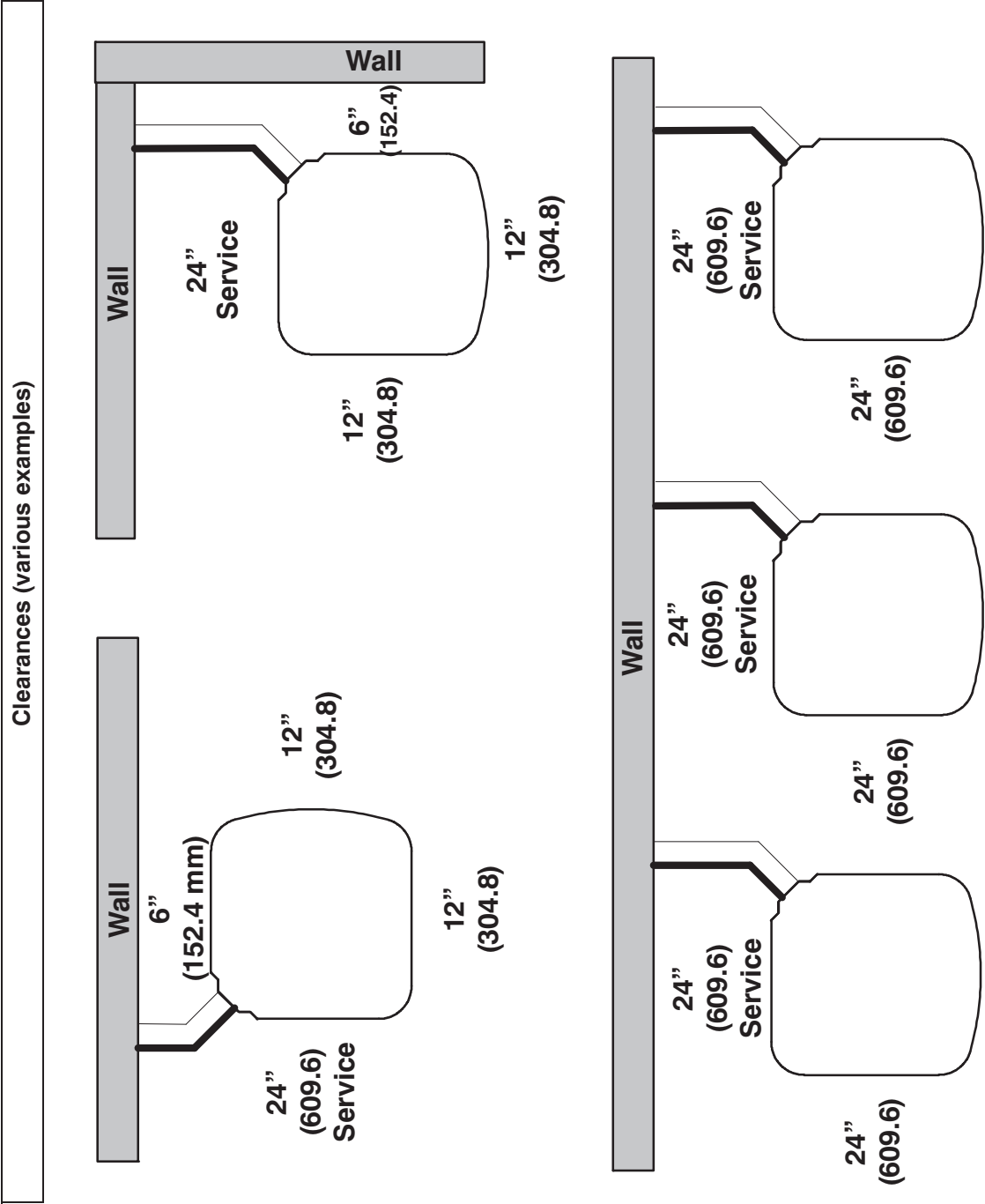
X = YES
O = NO

208-230-160	230-160	208/230-3-60	460-3-60
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UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18.24, 30.36	660.4 X 660.4
42.48	800.1 X 800.1
60	889.0 X 889.0

CLEARANCES



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 Bryant database at:

http://cactaxcredits.info/bryant-ratings/hp_ratings_srch.php

Equipment performance calculator can be accessed at: <http://rpmobbry.wrightsoft.com/>

Model Number	Indoor Model	Furnace Model	Capacity	EER	SEER
123ANA018****C*	CAP**1814A**+TDR		17,500	11.0	13.0
123ANA024****C*	CAP**2414A**+TDR		23,000	11.0	13.0
123ANA030****C*	CAP**3014A**+TDR		28,000	11.0	13.0
123ANA036****C*	CAP**3617A**+TDR		34,000	11.0	13.0
123ANA042****C*	CAP**4221A**+TDR		41,000	11.0	13.0
123ANA048****C*	CAP**4821A**+TDR		46,000	11.0	13.0
123ANA060****D*	CAP**6024A**+TDR		57,500	11.0	13.0

* AHRI = Air Conditioning, Heating & Refrigeration Institute

EER — Energy Efficiency Ratio

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 Bryant 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 Sys. KW**	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†	
		123ANA018—C Outdoor Section With 18 Indoor Section																	
525	72 (22.2)	20.46	10.76	1.21	19.55	10.41	1.36	18.59	10.05	1.53	17.62	9.69	1.71	16.57	9.30	1.91	15.40	8.88	2.13
	67 (19.4)	18.79	13.26	1.22	17.95	12.90	1.37	17.05	12.52	1.53	16.12	12.14	1.72	15.13	11.74	1.92	14.03	11.30	2.13
	62 (16.7)	17.27	15.73	1.22	16.49	15.36	1.37	15.68	14.97	1.54	14.83	14.55	1.72	14.00	14.00	1.92	13.15	13.15	2.13
	57 (13.9)	16.78	16.78	1.23	16.15	16.15	1.37	15.48	15.48	1.54	14.77	14.77	1.72	14.00	14.00	1.92	13.15	13.15	2.13
600	72 (22.2)	20.79	11.28	1.24	19.83	10.92	1.39	18.83	10.55	1.56	17.83	10.19	1.74	16.76	9.80	1.94	15.55	9.37	2.16
	67 (19.4)	19.11	14.10	1.25	18.23	13.73	1.40	17.30	13.36	1.56	16.35	12.97	1.74	15.33	12.57	1.94	14.20	12.12	2.16
	62 (16.7)	17.66	16.88	1.25	16.87	16.49	1.40	16.06	16.06	1.56	15.32	15.32	1.75	14.51	14.51	1.94	13.61	13.61	2.16
	57 (13.9)	17.46	17.46	1.25	16.79	16.79	1.40	16.07	16.07	1.56	15.32	15.32	1.75	14.51	14.51	1.94	13.61	13.61	2.16
675	72 (22.2)	21.03	11.77	1.27	20.02	11.40	1.42	18.99	11.03	1.58	17.97	10.67	1.77	16.88	10.28	1.97	15.65	9.85	2.18
	67 (19.4)	19.33	14.90	1.27	18.43	14.54	1.42	17.48	14.15	1.59	16.51	13.77	1.77	15.48	13.35	1.97	14.33	12.89	2.19
	62 (16.7)	18.01	17.91	1.28	17.30	17.30	1.43	16.54	16.54	1.59	15.76	15.76	1.77	14.92	14.92	1.97	13.97	13.97	2.19
	57 (13.9)	18.01	18.01	1.28	17.30	17.30	1.43	16.55	16.55	1.59	15.76	15.76	1.77	14.92	14.92	1.97	13.97	13.97	2.19
		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**	Capacity MBtuh		Total Sys. KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
		123ANA024—C Outdoor Section With 24 Indoor Section																	
700	72 (22.2)	27.11	14.29	1.61	25.97	13.86	1.81	24.75	13.40	2.03	23.47	12.92	2.28	22.09	12.41	2.55	20.55	11.85	2.84
	67 (19.4)	24.89	17.62	1.61	23.81	17.16	1.81	22.66	16.68	2.03	21.45	16.19	2.28	20.15	15.66	2.55	18.73	15.09	2.85
	62 (16.7)	22.86	20.91	1.61	21.86	20.44	1.81	20.81	19.93	2.04	19.72	19.39	2.28	18.65	18.65	2.56	17.57	17.57	2.86
	57 (13.9)	22.24	22.24	1.61	21.43	21.43	1.82	20.56	20.56	2.04	19.64	19.64	2.28	18.65	18.65	2.56	17.57	17.57	2.86
800	72 (22.2)	27.54	14.98	1.64	26.35	14.54	1.84	25.08	14.08	2.06	23.76	13.60	2.31	22.34	13.09	2.58	20.75	12.52	2.88
	67 (19.4)	25.31	18.74	1.64	24.19	18.29	1.85	23.00	17.81	2.07	21.75	17.31	2.31	20.42	16.77	2.59	18.96	16.19	2.88
	62 (16.7)	23.37	22.46	1.65	22.36	21.95	1.85	21.35	21.35	2.07	20.38	20.38	2.32	19.33	19.33	2.59	18.18	18.18	2.89
	57 (13.9)	23.14	23.14	1.65	22.28	22.28	1.85	21.36	21.36	2.07	20.38	20.38	2.32	19.33	19.33	2.59	18.18	18.18	2.89
900	72 (22.2)	27.83	15.64	1.68	26.61	15.19	1.88	25.31	14.72	2.10	23.96	14.25	2.34	22.50	13.73	2.61	20.87	13.16	2.91
	67 (19.4)	25.61	19.83	1.68	24.46	19.37	1.88	23.25	18.88	2.10	21.97	18.37	2.35	20.61	17.83	2.62	19.12	17.24	2.92
	62 (16.7)	23.85	23.85	1.68	22.96	22.96	1.88	22.00	22.00	2.10	20.98	20.98	2.35	19.87	19.87	2.62	18.66	18.66	2.92
	57 (13.9)	23.87	23.87	1.68	22.97	22.97	1.88	22.00	22.00	2.10	20.98	20.98	2.35	19.87	19.87	2.62	18.66	18.66	2.92

See notes on pg. 15

DETAILED COOLING CAPACITIES# CONTINUED

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 Sys. KW**	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**			
123ANA030-C Outdoor Section With 30 Indoor Section																
875	72 (22.2)	33.13	17.60	2.01	2.23	30.20	16.49	2.47	28.59	15.90	2.75	26.87	15.27	25.01	14.60	3.38
	67 (19.4)	30.12	21.64	2.01	2.23	27.37	20.50	2.48	25.87	19.89	2.76	24.27	19.25	22.59	18.58	3.42
	62 (16.7)	27.50	25.68	2.01	2.23	25.03	24.47	2.48	23.75	23.75	2.77	22.56	22.56	21.27	21.27	3.43
	57 (13.9)	26.93	26.93	2.01	2.24	24.89	24.89	2.48	23.76	23.76	2.77	22.56	22.56	21.27	21.27	3.43
1000	72 (22.2)	33.69	18.46	2.05	2.27	30.64	17.34	2.52	28.98	16.74	2.80	27.20	16.10	25.32	15.44	3.45
	67 (19.4)	30.64	23.04	2.05	2.27	27.80	21.89	2.52	26.25	21.27	2.80	24.61	20.61	22.87	19.92	3.46
	62 (16.7)	28.16	27.55	2.06	2.28	26.95	25.86	2.53	24.67	24.67	2.81	23.39	23.39	22.02	22.02	3.47
	57 (13.9)	28.03	28.03	2.06	2.28	26.98	26.98	2.53	24.67	24.67	2.81	23.39	23.39	22.02	22.02	3.47
1125	72 (22.2)	34.09	19.27	2.10	2.32	30.96	18.14	2.56	29.26	17.54	2.84	27.43	16.89	25.50	16.22	3.49
	67 (19.4)	31.03	24.36	2.10	2.32	28.12	23.20	2.57	26.54	22.57	2.85	24.86	21.90	23.10	21.19	3.50
	62 (16.7)	28.94	28.94	2.10	2.32	26.66	26.66	2.57	25.40	25.40	2.85	24.06	24.06	22.61	22.61	3.48
	57 (13.9)	28.94	28.94	2.10	2.32	26.66	26.66	2.57	25.41	25.41	2.85	24.06	24.06	22.62	22.62	3.51
123ANA036-C Outdoor Section With 36 Indoor Section																
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 Sys. KW**	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**			
123ANA036-C Outdoor Section With 36 Indoor Section																
1050	72 (22.2)	40.12	21.34	2.48	2.74	36.61	20.02	3.03	34.70	19.31	3.35	32.62	18.55	30.32	17.72	4.09
	67 (19.4)	36.62	26.34	2.47	2.73	33.34	24.97	3.02	31.55	24.24	3.34	29.62	23.47	27.50	22.62	4.09
	62 (16.7)	33.54	31.31	2.46	2.72	30.61	29.86	3.01	29.06	29.06	3.34	27.62	27.62	25.99	25.99	4.09
	57 (13.9)	32.88	32.88	2.46	2.72	30.44	30.44	3.01	29.09	29.09	3.34	27.63	27.63	26.00	26.00	4.09
1200	72 (22.2)	40.72	22.34	2.54	2.80	37.09	21.00	3.09	35.11	20.28	3.41	32.97	19.51	30.60	18.67	4.15
	67 (19.4)	37.19	27.96	2.53	2.79	33.80	26.58	3.08	31.96	25.85	3.40	29.98	25.06	27.81	24.20	4.15
	62 (16.7)	34.30	33.50	2.52	2.78	31.55	31.55	3.07	30.12	30.12	3.40	28.56	28.56	26.83	26.83	4.14
	57 (13.9)	34.15	34.15	2.52	2.78	32.89	32.89	3.07	30.12	30.12	3.40	28.56	28.56	26.83	26.83	4.14
1350	72 (22.2)	41.16	23.27	2.60	2.86	37.42	21.92	3.14	35.40	21.20	3.47	33.21	20.42	31.92	19.57	4.21
	67 (19.4)	37.62	29.51	2.59	2.85	34.15	28.12	3.14	32.27	27.38	3.46	30.25	26.57	28.05	25.67	4.20
	62 (16.7)	35.18	35.18	2.58	2.84	32.45	32.45	3.13	30.95	30.95	3.46	29.31	29.31	27.50	27.50	4.20
	57 (13.9)	35.19	35.19	2.58	2.84	32.46	32.46	3.13	30.95	30.95	3.46	29.31	29.31	27.50	27.50	4.20

See notes on pg. 15

DETAILED COOLING CAPACITIES# CONTINUED

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 Sys. KW**	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†						
123ANAO42 – C Outdoor Section With 42 Indoor Section																			
1225	72 (22.2)	48.51	25.52	3.33	46.40	24.71	3.68	44.17	23.86	4.08	41.83	22.99	4.51	39.30	22.05	4.99	36.50	21.03	5.51
	67 (19.4)	44.49	31.40	3.31	42.53	30.57	3.66	40.46	29.71	4.06	38.30	28.81	4.50	35.96	27.87	4.98	33.41	26.84	5.51
	62 (16.7)	40.85	37.25	3.29	39.08	36.40	3.65	37.24	35.50	4.04	35.33	34.54	4.48	33.39	33.39	4.97	31.44	31.44	5.50
	57 (13.9)	39.76	39.76	3.29	38.32	38.32	3.64	36.79	36.79	4.04	35.17	35.17	4.48	33.41	33.41	4.97	31.45	31.45	5.50
1400	72 (22.2)	49.22	26.65	3.40	47.02	25.82	3.76	44.72	24.97	4.15	42.30	24.08	4.59	39.69	23.14	5.07	36.79	22.10	5.59
	67 (19.4)	45.18	33.25	3.38	43.15	32.40	3.74	41.00	31.53	4.13	38.76	30.63	4.57	36.37	29.68	5.05	33.74	28.63	5.58
	62 (16.7)	41.71	39.81	3.37	39.92	38.90	3.72	38.04	38.04	4.12	36.38	36.38	4.56	34.50	34.50	5.05	32.41	32.41	5.58
	57 (13.9)	41.28	41.28	3.37	39.74	39.74	3.72	38.11	38.11	4.12	36.38	36.38	4.56	34.50	34.50	5.05	32.41	32.41	5.58
1575	72 (22.2)	49.76	27.73	3.48	47.49	26.90	3.84	45.12	26.04	4.23	42.63	25.14	4.67	39.95	24.19	5.14	36.99	23.14	5.66
	67 (19.4)	45.71	35.04	3.46	43.61	34.19	3.82	41.42	33.32	4.21	39.13	32.41	4.65	36.68	31.44	5.13	33.99	30.36	5.65
	62 (16.7)	42.55	42.13	3.45	40.89	40.89	3.80	39.17	39.17	4.20	37.34	37.34	4.64	35.37	35.37	5.12	33.16	33.16	5.65
	57 (13.9)	42.52	42.52	3.45	40.89	40.89	3.80	39.17	39.17	4.20	37.35	37.35	4.64	35.37	35.37	5.12	33.16	33.16	5.65
CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																			
123ANAO48 – C Outdoor Section With 48 Indoor Section																			
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)							
		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**	Capacity MBtuh	Total Sys. KW**						
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†						
1400	72 (22.2)	55.04	28.49	3.35	52.62	27.54	3.75	50.08	26.56	4.20	47.38	25.54	4.72	44.49	24.45	5.30	41.25	23.26	6.01
	67 (19.4)	49.86	34.52	3.35	47.63	33.55	3.75	45.27	32.56	4.21	42.77	31.51	4.73	40.10	30.41	5.33	37.08	29.19	6.08
	62 (16.7)	45.26	40.60	3.35	43.30	39.77	3.76	41.26	38.91	4.22	39.15	38.04	4.74	37.27	37.27	5.34	35.05	35.05	6.09
	57 (13.9)	44.65	44.65	3.35	42.99	42.99	3.76	41.23	41.23	4.22	39.35	39.35	4.74	37.33	37.33	5.34	35.06	35.06	6.09
1600	72 (22.2)	56.06	29.65	3.42	53.54	28.69	3.82	50.89	27.69	4.27	48.09	26.65	4.79	45.09	25.55	5.36	41.76	24.34	6.06
	67 (19.4)	50.79	36.35	3.42	48.45	35.38	3.82	46.00	34.36	4.28	43.40	33.30	4.80	40.63	32.17	5.39	37.50	30.93	6.14
	62 (16.7)	46.36	43.45	3.42	44.40	42.66	3.83	42.52	41.92	4.17	40.77	40.77	4.81	38.63	38.63	5.40	36.19	36.19	6.15
	57 (13.9)	46.41	46.41	3.42	44.64	44.64	3.83	42.77	42.77	4.28	40.78	40.78	4.81	38.63	38.63	5.40	36.19	36.19	6.15
1800	72 (22.2)	56.83	30.71	3.49	54.22	29.73	3.89	51.49	28.72	4.34	48.61	27.66	4.85	45.53	26.54	5.43	42.11	25.32	6.12
	67 (19.4)	51.48	38.05	3.49	49.06	37.05	3.89	46.53	36.02	4.35	43.86	34.94	4.87	41.00	33.80	5.46	37.80	32.58	6.20
	62 (16.7)	47.45	46.27	3.50	45.69	45.69	3.90	44.03	44.03	4.36	41.94	41.94	4.88	39.69	39.69	5.47	37.12	37.12	6.21
	57 (13.9)	47.87	47.87	3.49	46.01	46.01	3.90	44.04	44.04	4.36	41.95	41.95	4.88	39.69	39.69	5.47	37.13	37.13	6.21

See notes on pg. 15

DETAILED COOLING CAPACITIES# CONTINUED

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 Sys. KW**	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**	Capacity MBtuh		Total Sys. KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
123ANA060—D Outdoor Section With 60 Indoor Section																									
1750	72 (22.2)	67.65	35.66	4.15	64.56	34.48	4.58	61.30	33.25	5.06	57.89	31.98	5.58	54.20	30.63	6.15	50.10	29.15	6.77						
	67 (19.4)	62.07	43.94	4.10	59.24	42.75	4.53	56.25	41.50	5.01	53.12	40.22	5.54	49.74	38.85	6.11	46.03	37.38	6.74						
	62 (16.7)	57.01	52.17	4.06	54.45	50.95	4.49	51.79	49.66	4.97	49.04	48.27	5.50	46.34	46.34	6.08	43.50	43.50	6.72						
	57 (13.9)	55.50	55.50	4.04	53.42	53.42	4.48	51.22	51.22	4.96	48.89	48.89	5.50	46.35	46.35	6.08	43.51	43.51	6.72						
2000	72 (22.2)	68.69	37.30	4.26	65.46	36.09	4.69	62.07	34.85	5.16	58.54	33.56	5.69	54.71	32.19	6.26	50.48	30.69	6.87						
	67 (19.4)	63.07	46.60	4.21	60.11	45.38	4.64	57.00	44.12	5.11	53.75	42.82	5.64	50.27	41.45	6.21	46.44	39.94	6.84						
	62 (16.7)	58.17	55.80	4.16	55.57	54.47	4.59	52.95	52.95	5.07	50.49	50.49	5.61	47.78	47.78	6.19	44.74	44.74	6.82						
	57 (13.9)	57.57	57.57	4.16	55.35	55.35	4.59	52.99	52.99	5.07	50.50	50.50	5.61	47.78	47.78	6.19	44.74	44.74	6.82						
2250	72 (22.2)	69.44	38.83	4.36	66.10	37.62	4.79	62.61	36.36	5.27	58.97	35.06	5.79	55.04	33.67	6.36	50.70	32.16	6.97						
	67 (19.4)	63.79	49.12	4.31	60.73	47.89	4.74	57.53	46.62	5.21	54.20	45.31	5.74	50.63	43.90	6.31	46.72	42.34	6.93						
	62 (16.7)	59.18	59.18	4.27	56.90	56.90	4.70	54.41	54.41	5.18	51.77	51.77	5.72	48.91	48.91	6.30	45.70	45.70	6.93						
	57 (13.9)	59.25	59.25	4.27	56.90	56.90	4.70	54.42	54.42	5.18	51.78	51.78	5.72	48.91	48.91	6.30	45.70	45.70	6.93						

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).
Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240–2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
** System kw is total of indoor and outdoor unit kilowatts.
†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.
NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
EWB — Entering Wet Bulb

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)
123ANA018 – C									
30 (–1.11)	TCG	15.90	15.00	14.10	13.10	12.20	11.20	10.20	9.10
	SDT	67.80	77.30	86.80	96.30	105.90	115.50	125.10	134.80
	KW	0.80	0.92	1.06	1.20	1.36	1.54	1.73	1.92
35 (1.67)	TCG	17.50	16.50	15.50	14.50	13.50	12.50	11.40	10.20
	SDT	68.80	78.20	87.70	97.20	106.70	116.20	125.80	135.40
	KW	0.80	0.92	1.05	1.20	1.36	1.54	1.73	1.94
40 (4.44)	TCG	19.20	18.20	17.10	16.00	14.90	13.80	12.60	11.40
	SDT	69.80	79.20	88.70	98.10	107.50	117.00	126.50	136.00
	KW	0.79	0.91	1.05	1.20	1.36	1.54	1.74	1.95
45 (7.22)	TCG	21.00	19.90	18.80	17.60	16.40	15.20	14.00	12.60
	SDT	70.90	80.30	89.70	99.10	108.40	117.80	127.20	136.70
	KW	0.79	0.91	1.05	1.20	1.36	1.54	1.74	1.95
50 (10.0)	TCG	22.90	21.70	20.40	19.20	17.90	16.60	15.30	13.90
	SDT	72.00	81.40	90.70	100.10	109.30	118.70	128.00	137.30
	KW	0.79	0.91	1.04	1.19	1.36	1.54	1.74	1.95
55 (12.78)	TCG	24.80	23.50	22.10	20.80	19.40	18.00	16.70	15.20
	SDT	73.10	82.50	91.80	101.10	110.30	119.50	128.80	138.00
	KW	0.78	0.90	1.04	1.19	1.36	1.54	1.74	1.95
123ANA024 – C									
30 (–1.11)	TCG	21.20	20.00	18.80	17.60	16.40	15.10	13.80	12.50
	SDT	71.90	81.20	90.60	100.10	109.50	119.00	128.60	138.20
	KW	1.04	1.19	1.37	1.56	1.77	2.01	2.26	2.53
35 (1.67)	TCG	23.30	22.10	20.80	19.50	18.20	16.80	15.40	13.90
	SDT	73.20	82.50	91.80	101.10	110.50	119.90	129.40	139.00
	KW	1.03	1.19	1.37	1.56	1.77	2.01	2.27	2.54
40 (4.44)	TCG	25.60	24.20	22.90	21.50	20.00	18.60	17.10	15.50
	SDT	74.60	83.80	93.00	102.30	111.50	120.90	130.30	139.70
	KW	1.03	1.19	1.37	1.56	1.78	2.01	2.27	2.55
45 (7.22)	TCG	28.00	26.50	25.00	23.50	22.00	20.40	18.80	17.10
	SDT	76.00	85.10	94.30	103.50	112.60	121.90	131.20	140.50
	KW	1.03	1.19	1.37	1.56	1.78	2.01	2.27	2.55
50 (10.0)	TCG	30.50	28.90	27.30	25.70	24.00	22.30	20.60	18.80
	SDT	77.50	86.60	95.60	104.70	113.80	122.90	132.10	141.20
	KW	1.03	1.19	1.37	1.56	1.77	2.01	2.27	2.55
55 (12.78)	TCG	33.00	31.30	29.60	27.80	26.10	24.30	22.40	20.40
	SDT	79.00	88.00	97.00	106.00	114.90	124.00	133.00	142.00
	KW	1.03	1.19	1.37	1.56	1.77	2.01	2.27	2.55
123ANA030 – C									
30 (–1.11)	TCG	24.60	23.30	22.00	20.60	19.10	17.70	16.10	14.50
	SDT	72.10	81.50	91.00	100.60	110.20	120.00	129.90	139.90
	KW	1.33	1.50	1.69	1.91	2.14	2.40	2.67	2.97
35 (1.67)	TCG	27.10	25.70	24.30	22.80	21.30	19.70	18.00	16.20
	SDT	73.40	82.70	92.20	101.60	111.20	120.90	130.70	140.60
	KW	1.34	1.51	1.70	1.91	2.14	2.40	2.69	3.00
40 (4.44)	TCG	29.80	28.30	26.80	25.20	23.50	21.80	20.00	18.20
	SDT	74.70	84.00	93.30	102.70	112.20	121.80	131.50	141.30
	KW	1.34	1.51	1.70	1.91	2.15	2.41	2.70	3.01
45 (7.22)	TCG	32.70	31.10	29.40	27.70	26.00	24.10	22.20	20.20
	SDT	76.10	85.20	94.50	103.80	113.10	122.70	132.30	142.00
	KW	1.35	1.52	1.71	1.92	2.15	2.42	2.71	3.02
50 (10.0)	TCG	35.80	34.10	32.30	30.50	28.60	26.60	24.60	22.40
	SDT	77.50	86.60	95.70	104.90	114.20	123.60	133.10	142.60
	KW	1.35	1.52	1.71	1.92	2.16	2.42	2.71	3.03
55 (12.78)	TCG	39.10	37.20	35.30	33.40	31.30	29.30	27.10	24.80
	SDT	79.00	88.00	97.00	106.10	115.20	124.50	133.90	143.30
	KW	1.36	1.53	1.72	1.93	2.16	2.42	2.71	3.03
123ANA036 – C									
30 (–1.11)	TCG	31.50	29.90	28.20	26.50	24.70	22.80	20.90	18.80
	SDT	72.10	81.10	90.20	99.30	108.50	117.70	127.00	136.30
	KW	1.62	1.82	2.05	2.31	2.59	2.90	3.23	3.58
35 (1.67)	TCG	34.70	32.90	31.10	29.20	27.30	25.30	23.20	21.00
	SDT	73.70	82.50	91.50	100.50	109.60	118.70	127.90	137.10
	KW	1.63	1.83	2.06	2.32	2.60	2.91	3.25	3.61
40 (4.44)	TCG	38.10	36.20	34.20	32.20	30.10	27.90	25.70	23.30
	SDT	75.30	84.00	92.80	101.80	110.70	119.80	128.90	138.00
	KW	1.64	1.84	2.07	2.33	2.62	2.93	3.27	3.63
45 (7.22)	TCG	41.70	39.60	37.50	35.30	33.10	30.70	28.30	25.70
	SDT	77.00	85.60	94.30	103.10	112.00	121.00	129.90	138.90
	KW	1.65	1.86	2.09	2.34	2.63	2.94	3.28	3.65
50 (10.0)	TCG	45.60	43.30	41.00	38.60	36.20	33.70	31.00	28.20
	SDT	78.90	87.30	95.90	104.60	113.30	122.20	131.00	139.90
	KW	1.67	1.87	2.10	2.36	2.64	2.96	3.30	3.67
55 (12.78)	TCG	49.60	47.10	44.60	42.00	39.40	36.70	33.80	30.80
	SDT	80.80	89.10	97.50	106.10	114.70	123.40	132.10	140.80
	KW	1.69	1.89	2.12	2.38	2.66	2.97	3.31	3.68

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)
123ANA042 – C									
30 (–1.11)	TCG	38.00	36.00	33.90	31.90	29.70	27.60	25.30	22.90
	SDT	73.20	82.30	91.40	100.60	109.80	119.10	128.40	137.70
	KW	1.95	2.20	2.48	2.80	3.14	3.53	3.95	4.41
35 (1.67)	TCG	41.90	39.70	37.40	35.10	32.80	30.50	28.00	25.50
	SDT	74.80	83.70	92.80	101.90	111.00	120.20	129.40	138.60
	KW	1.97	2.22	2.50	2.81	3.16	3.54	3.97	4.43
40 (4.44)	TCG	46.00	43.60	41.10	38.70	36.20	33.60	30.90	28.10
	SDT	76.40	85.20	94.20	103.20	112.20	121.30	130.40	139.50
	KW	1.98	2.23	2.52	2.83	3.18	3.56	3.98	4.44
45 (7.22)	TCG	50.30	47.70	45.10	42.40	39.60	36.80	33.90	30.90
	SDT	78.10	86.90	95.70	104.60	113.50	122.50	131.40	140.40
	KW	2.01	2.26	2.54	2.85	3.19	3.58	4.00	4.45
50 (10.0)	TCG	54.90	52.10	49.20	46.20	43.20	40.20	37.00	33.60
	SDT	80.00	88.60	97.20	106.00	114.80	123.70	132.50	141.30
	KW	2.03	2.28	2.56	2.87	3.21	3.60	4.01	4.47
55 (12.78)	TCG	59.70	56.60	53.40	50.20	46.90	43.50	40.10	36.40
	SDT	81.90	90.30	98.90	107.50	116.20	124.90	133.60	142.20
	KW	2.06	2.30	2.58	2.89	3.23	3.62	4.03	4.48
123ANA048 – C									
30 (–1.11)	TCG	41.60	39.30	37.10	34.80	32.40	30.00	27.40	24.80
	SDT	73.90	83.20	92.60	101.90	111.30	120.80	130.20	139.70
	KW	2.24	2.54	2.87	3.24	3.64	4.08	4.56	5.08
35 (1.67)	TCG	45.80	43.40	40.90	38.50	35.90	33.30	30.60	27.70
	SDT	75.40	84.70	93.90	103.20	112.50	121.90	131.30	140.70
	KW	2.25	2.55	2.88	3.25	3.66	4.10	4.59	5.11
40 (4.44)	TCG	50.30	47.70	45.10	42.40	39.60	36.80	33.90	30.90
	SDT	77.00	86.20	95.30	104.50	113.80	123.00	132.30	141.60
	KW	2.26	2.56	2.89	3.26	3.67	4.12	4.61	5.14
45 (7.22)	TCG	55.10	52.30	49.50	46.60	43.60	40.60	37.50	34.20
	SDT	78.60	87.70	96.80	105.90	115.00	124.20	133.40	142.60
	KW	2.27	2.57	2.90	3.27	3.68	4.13	4.62	5.15
50 (10.0)	TCG	60.20	57.20	54.20	51.10	47.90	44.60	41.20	37.70
	SDT	80.30	89.40	98.40	107.40	116.40	125.50	134.50	143.50
	KW	2.28	2.59	2.92	3.29	3.70	4.15	4.64	5.17
55 (12.78)	TCG	65.70	62.50	59.20	55.80	52.40	48.90	45.20	41.30
	SDT	82.10	91.10	100.00	108.90	117.80	126.80	135.70	144.50
	KW	2.30	2.60	2.94	3.30	3.71	4.16	4.65	5.18
123ANA060 – C									
30 (–1.11)	TCG	53.30	50.40	47.40	44.50	41.50	38.40	35.20	31.90
	SDT	74.40	83.30	92.20	101.30	110.40	119.50	128.60	137.70
	KW	2.61	2.94	3.32	3.73	4.20	4.71	5.27	5.88
35 (1.67)	TCG	58.70	55.50	52.20	49.00	45.70	42.30	38.90	35.20
	SDT	76.10	84.90	93.70	102.70	111.70	120.70	129.70	138.70
	KW	2.65	2.98	3.36	3.77	4.24	4.75	5.31	5.91
40 (4.44)	TCG	64.30	60.80	57.30	53.80	50.20	46.50	42.60	38.60
	SDT	78.00	86.60	95.30	104.20	113.00	121.90	130.80	139.60
	KW	2.70	3.03	3.40	3.82	4.28	4.79	5.35	5.95
45 (7.22)	TCG	70.30	66.50	62.70	58.80	54.80	50.70	46.50	42.10
	SDT	79.90	88.40	97.00	105.70	114.50	123.20	132.00	140.60
	KW	2.75	3.08	3.46	3.87	4.33	4.84	5.39	5.99
50 (10.0)	TCG	76.70	72.50	68.20	64.00	59.60	55.20	50.60	45.60
	SDT	82.00	90.40	98.80	107.40	116.00	124.60	133.20	141.70
	KW	2.81	3.14	3.51	3.93	4.38	4.89	5.44	6.03
55 (12.78)	TCG	83.30	78.70	74.10	69.40	64.60	59.70	54.70	49.30
	SDT	84.20	92.40	100.70	109.10	117.50	126.00	134.40	142.70
	KW	2.87	3.20	3.57	3.98	4.44	4.94	5.48	6.07

* 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)

123A

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-us 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 at 150 psig and pressure tested at 450 psig.
- 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 will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER

123A

1-1/2 TO 5 NOMINAL TONS

Fans

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