

213ANC
Legacy™ Line Heat Pump for Coastal Applications
with Puron® Refrigerant
1-1/2 to 5 Nominal Tons (Sizes 018 to 060)



Product Data



Bryant heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 213A has been designed utilizing Bryant's Puron refrigerant. The environmentally sound refrigerant allows consumers to make a responsible decision in the protection of the earth's ozone layer.

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/ 10.8 - 11.0 EER/ 7.7 - 8.2 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 74 dBA

Comfort

- System supports Thermidstat™ or standard thermostat controls

Reliability

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

Durability

DuraGuard™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

CoastGuard Condenser Coil

- Aluminum fin material is pre-coated on both sides with a corrosion protective epoxy phenolic coating.

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
2	1	3	A	N	C	0	3	6	0	0	0	0
Product Family 2=HP	Tier 1= Legacy RNC	SEER 3=13 SEER	Major Series A=Puron	Voltage N= 208–230–1 or 208/230–1	Variations C = Coastal	Cooling Capacity			Open 0=Not Defined	Open 0=Not Defined	Open 0=Not Defined	Minor Series 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.**

213ANC

STANDARD FEATURES

Feature	018	024	030	036	042	048	060
Puron Refrigerant	X	X	X	X	X	X	X
Maximum SEER Rating	15	15	15	15	15	15	14
Scroll Compressor	X	X	X	X	X	X	X
Dense Wire Coil Guard	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X
Low Ambient capability with Kit	X	X	X	X	X	X	X
Suction Line Accumulator	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X
Loss of Charge Switch	X	X	X	X	X	X	X

X = Standard

PHYSICAL DATA

UNIT SIZE SERIES	018-C	024-C	030-C	036-C	042-C	048-C	060-C
Operating Weight lb (kg)	173 (78.5)	173 (78.5)	191 (86.6)	192 (87.1)	255 (115.7)	265 (120.2)	287 (130.2)
Shipping Weight lb (kg)	202 (91.6)	202 (91.6)	223 (101.2)	224 (101.6)	287 (130.2)	297 (134.7)	319 (144.7)
Compressor Type	Scroll						
REFRIGERANT	Puron® (R-410A)						
Control	TXV (Puron Hard Shutoff)						
Heating Piston Size	42	46	55	57	61	61	76
Charge lb (kg)	6.63 (3.01)	6.58 (2.98)	6.56 (2.98)	7.57 (3.43)	11.07 (5.02)	11.30 (5.13)	12.58 (5.71)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	2611	2611	3810	3810	3810	4046	4046
Motor HP	1/10	1/10	1/5	1/5	1/5	1/4	1/4
Motor RPM	1100	1100	800	800	800	800	800
COND COIL							
Face Area (Sq ft)	19.40	19.4	20.12	25.15	20.12	20.12	25.15
Fins per In.	20	20	20	20	20	20	20
Rows	1	1	1	1	2	2	2
Circuits	5	5	5	6	6	8	8
VALVE CONNECT. (In. ID)							
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8
Liquid	3/8						
REFRIGERANT TUBES (In. OD)							
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. (24.4 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 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 (46.0-50.3)	176-200 (53.6-60.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
18,000 1-Stage Puron HP	3/8	1/2	1	2	3	4	6	7	8	9	10
		5/8	0	0	1	1	1	2	2	3	3
24,000 1-Stage Puron HP		5/8	0	1	1	2	3	3	4	4	5
		3/4	0	0	0	0	1	1	1	1	1
		5/8	1	2	3	3	4	5	6	7	8
30,000 1-Stage Puron HP		3/4	0	0	1	1	1	2	2	2	3
		7/8	0	0	0	0	1	1	1	1	1
		5/8	1	2	4	5	6	7	9	10	11
36,000 1-Stage Puron HP		3/4	0	0	1	1	2	2	3	3	4
		7/8	0	0	0	0	1	1	1	1	2
42,000 1-Stage Puron HP		3/4	0	1	2	2	3	4	4	5	6
		7/8	0	0	1	1	1	2	2	2	3
48,000 1-Stage Puron HP		3/4	0	1	2	3	4	5	5	6	7
		7/8	0	0	1	1	2	2	2	3	3
60,000 1-Stage Puron HP		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-C
HC34GE240	BALL BEARING MOTOR	X	X					
HC38GE219	BALL BEARING MOTOR			X				
HC38GE228	BALL BEARING MOTOR				X	X		
HC40GE228	BALL BEARING MOTOR						X	X
KAACH1401AAA	CRANKCASE HTR			X				
KAACH1601AAA	CRANKCASE HTR					X		
KAACH1701AAA	CRANKCASE HTR	X	X		X			
Standard	CRANKCASE HTR						S	S
KSACY0101AAA	CYCLE PROTECTOR	X	X	X	X	X	X	X
KAAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X	X	X	X
KSAHS1701AAA	HARD START	X	X	X	X	X	X	X
KHAIR0101AAA	ISOLATION RELAY	X	X	X	X	X	X	X
KSALA0301410	LOW AMBIENT PSW	X	X	X	X	X	X	X
KSALA0601AAA†	MOTORMASTER 230V	X	X	X	X	X	X	X
KHAOT0201SEC	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X
KHAOT0301FST	OUTDOOR THERMOSTAT	X	X	X	X	X	X	X
KAALP0401PUR	PRESSURE SWITCH-LOW	X	X	X	X	X	X	X
KAALP0401PUR	PRESSURE SWITCH-HIGH	X	X	X	X	X	X	X
KAALS0201LLS	SOLENOID VALVE	X						
KHALS0401LLS	SOLENOID VALVE		X	X	X	X	X	X
KHASS0606MPK*	SNOW STAND RACK	X	X	X	X	X	X	X
KSASH0601COP	SOUND BLKT	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 KIT	X	X	X	X	X	X	X

x = Accessory S = Standard

* Available through RCD

† Required accessories include ball bearing fan motor, compressor start assist (CAP / Relay), crankcase heater, evaporator freeze stat, isolation relay, hard shut-off TXV or liquid line solenoid valve.

ACCESSORY THERMOSTATS

PART NUMBER	PROGRAM	ELECTRIC	HEAT PUMP	HEAT	COOL
T2-PHP01	5-2 Day	√	√	3	2
T2-NHP01	NP	√	√	3	2
T2SNHP01	NP	√	√	2	1

THERMOSTAT ACCESSORIES		
PART NUMBER	BRIEF DESCRIPTION	THERMOSTATS USED WITH
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) – 10 pack	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® 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.

† Additional requirement 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 MotorMaster® —

2. Compressor Start Assist - Capacitor and Relay

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

Usage Guideline:

Required for reciprocating compressors in the following applications:

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

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

- Long line
- Low ambient cooling

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

3. Compressor Start Assist — PTC Type

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

Usage Guideline:

Suggested in installations with marginal power supply.

4. Crankcase Heater

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

Usage Guideline:

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

5. Cycle Protector

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

6. Evaporator Freeze Thermostat

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

Usage Guideline:

Required when low ambient kit has been added.

7. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

8. Low-Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F/-17.78°C when properly installed.

Usage Guideline:

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

9. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at 100°F ±10°F (37.8°C ± 5.5°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 Bryant thermostats listed in this publication.

Suggested for all commercial applications.

Accessory Description and Usage (Listed Alphabetically) (Continued)

10. Outdoor Air Temperature Sensor

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

Usage Guideline:

11. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Usage Guideline:

Suggested when unit is installed closer than 15 ft (4.57 m) to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft (3.05 m) apart.

12. 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.

13. 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.

Required for use on all zoning systems.

14. 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:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to AHRI Unitary Directory.

15. 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 – 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 BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
018–C	208/230/1	253	197	48.0	9.4	0.8	12.5	14	14	63 (19.2)	60 (18.3)	20
024–C				58.3	12.8	0.8	16.8	14	14	47 (14.3)	45 (13.7)	25
030–C				77.0	15.2	1.2	20.2	12	12	62 (18.9)	59 (18.0)	30
036–C				79.0	16.7	1.2	22.0	12	12	57 (17.4)	54 (16.5)	35
042–C				109.0	21.3	1.2	27.8	10	10	72 (22.0)	68 (20.7)	40
048–C				117.0	21.8	1.2	28.4	10	10	70 (21.3)	67 (20.4)	40
060–C				134.0	26.3	1.2	34.1	8	10	91 (27.7)	56 (17.1)	50

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

† If wire is applied at ambient greater than 30°C, 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 conditions, per the NEC–2008 (ANSI/NFPA 70) Article 334.80. If other than uncoated (no-plated), 60 or 75°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 2001 requirements of ASHRAE Standards 90.1

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A-WEIGHTED SOUND LEVEL (dBA)

UNIT SIZE – SERIES	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018–C	74	51.5	61.5	67.0	68.5	66.5	63.5	58.5
024–C	74	53.0	62.0	68.0	70.5	67.0	63.5	59.0
030–C	75	56.0	62.0	66.5	71.5	66.0	62.0	54.5
036–C	75	50.5	61.5	65.0	71.0	65.0	61.0	54.5
042–C	75	59.5	63.0	66.5	71.0	67.0	62.0	55.5
048–C	79	57.5	64.5	67.5	71.5	73.0	64.5	58.5
060–C	80	57.5	59.0	65.5	71.5	74.0	63.0	57.5

NOTE: Tested in accordance with AHRI Standard 270–95. (Not listed with AHRI).

A-WEIGHTED SOUND LEVEL (dBA) WITH SOUND SHIELD

UNIT SIZE – SERIES	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018–C	73	51.5	62.0	67.0	68.0	66.0	63.0	58.5
024–C	74	53.0	62.0	67.5	69.0	66.5	63.0	58.0
030–C	74	57.0	61.5	66.0	70.0	65.0	60.5	52.5
036–C	73	51.0	61.5	64.5	69.0	63.5	60.5	53.0
042–C	73	60.0	63.5	66.5	69.5	66.0	60.5	52.5
048–C	77	57.0	65.5	67.5	69.5	71.0	61.0	53.5
060–C	77	57.5	58.5	65.0	68.5	71.0	60.0	53.0

NOTE: Tested in accordance with AHRI Standard 270–95. (Not listed with AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – SERIES	REQUIRED SUBCOOLING °F (°C)
018–C	8 (4.4)
024–C	10 (5.6)
030–C	10 (5.6)
036–C	11 (6.1)
042–C	11 (6.1)
048–C	12 (6.7)
060–C	11 (6.1)

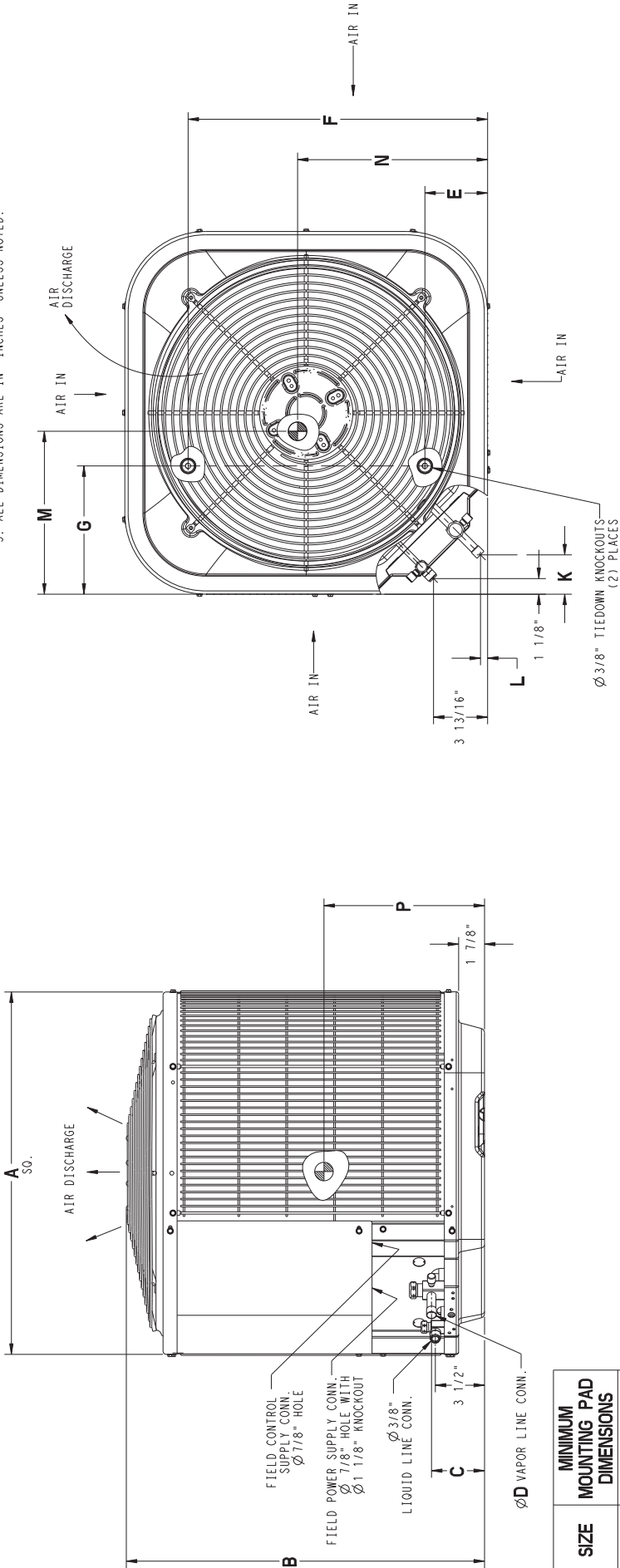
DIMENSIONS - ENGLISH

UNIT	SERIES	ELECTRICAL CHARACTERISTICS			A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (lbs)	SHIPPING WEIGHT (lbs)	SHIPPING DIMENSIONS (L x W x H)						
213A*C018	C	X	0	0	0	31	3 1/8"	35 3/4"	3 3/4"	5/8"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	14 1/2"	14"	15"	173	202	32 3/8"	X	35 1/2"	X	39 3/8"
213A*C024	C	X	0	0	0	31	3 1/8"	35 3/4"	3 3/4"	5/8"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	15"	14 1/2"	15"	173	202	32 3/8"	X	35 1/2"	X	39 3/8"
213A*C030	C	X	0	0	0	35"	32 5/16"	3 3/4"	3/4"	6 9/16"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	1/2"	15 1/2"	14 1/2"	191	223	36 1/8"	X	39 5/16"	X	35 15/16"	
213A*C036	C	X	0	0	0	35"	39 1/8"	3 3/4"	3/4"	6 9/16"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	1/2"	16"	14"	192	224	36 1/8"	X	39 5/16"	X	42 3/4"	
213A*C042	C	X	0	0	0	35"	32 5/16"	3 7/8"	7/8"	6 9/16"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	17"	13 1/2"	255	287	36 1/8"	X	39 5/16"	X	35 15/16"
213A*C048	C	X	0	0	0	35"	32 5/16"	3 7/8"	7/8"	6 9/16"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	17"	15 1/2"	265	297	36 1/8"	X	39 5/16"	X	35 15/16"
213A*C060	C	X	0	0	0	35"	39 1/8"	3 7/8"	7/8"	6 9/16"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16"	16"	287	319	36 1/8"	X	39 5/16"	X	42 3/4"	

X = YES
0 = NO

NOTES:

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



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

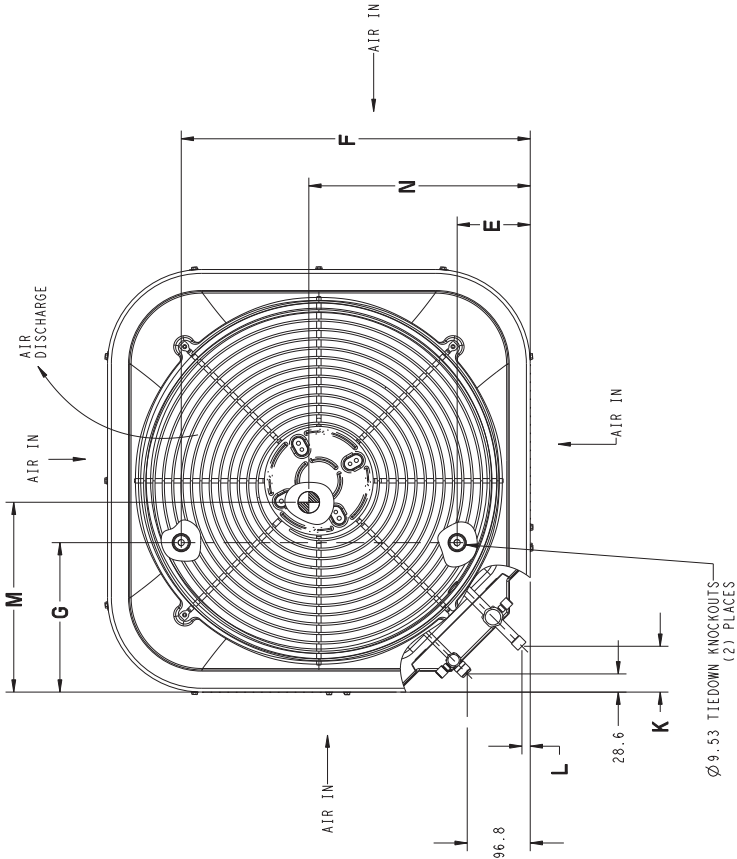
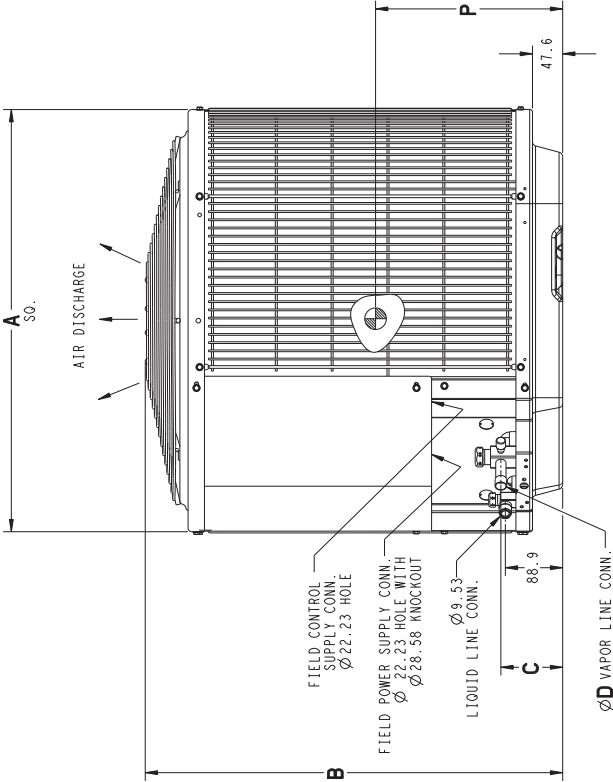
DIMENSIONS - SI

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)	
213A*C018	C	X	0	0	762.2	908.0	95.2	15.9	166.7	627.1	231.8	71.4	12.7	368.3	355.6	381.0	78.5	91.6	822.3 X 901.7 X 1000.1
213A*C024	C	X	0	0	762.2	908.0	95.2	15.9	166.7	627.1	231.8	71.4	12.7	381.0	368.3	381.0	78.5	91.6	822.3 X 901.7 X 1000.1
213A*C030	C	X	0	0	889.0	820.8	95.2	19.0	166.7	722.3	231.8	71.4	12.7	393.7	393.7	368.3	86.6	101.2	917.6 X 998.6 X 912.8
213A*C036	C	X	0	0	889.0	993.8	95.2	19.0	166.7	722.3	231.8	71.4	12.7	406.4	355.6	355.6	87.1	101.6	917.6 X 998.6 X 1085.8
213A*C042	C	X	0	0	889.0	908.0	98.4	22.2	166.7	722.3	231.8	74.6	15.9	419.1	431.8	342.9	115.7	130.2	917.6 X 998.6 X 912.8
213A*C048	C	X	0	0	889.0	908.0	98.4	22.2	166.7	722.3	231.8	74.6	15.9	419.1	431.8	393.7	120.2	134.7	917.6 X 998.6 X 912.8
213A*C060	C	X	0	0	889.0	993.8	98.4	22.2	166.7	722.3	231.8	74.6	15.9	406.4	406.4	431.8	130.2	144.7	917.6 X 998.6 X 1085.8

X = YES
O = NO

NOTES:

1. ALLOW 762.0 CLEARANCE TO SERVICE SIDE OF UNIT, 1219.2 ABOVE UNIT, 132.4 ON ONE SIDE, 304.8 ON REMAINING SIDE, AND 609.6 BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13° C, MAX. 32° C.
3. SERIES DESIGNATION IS THE 13TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY .
5. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

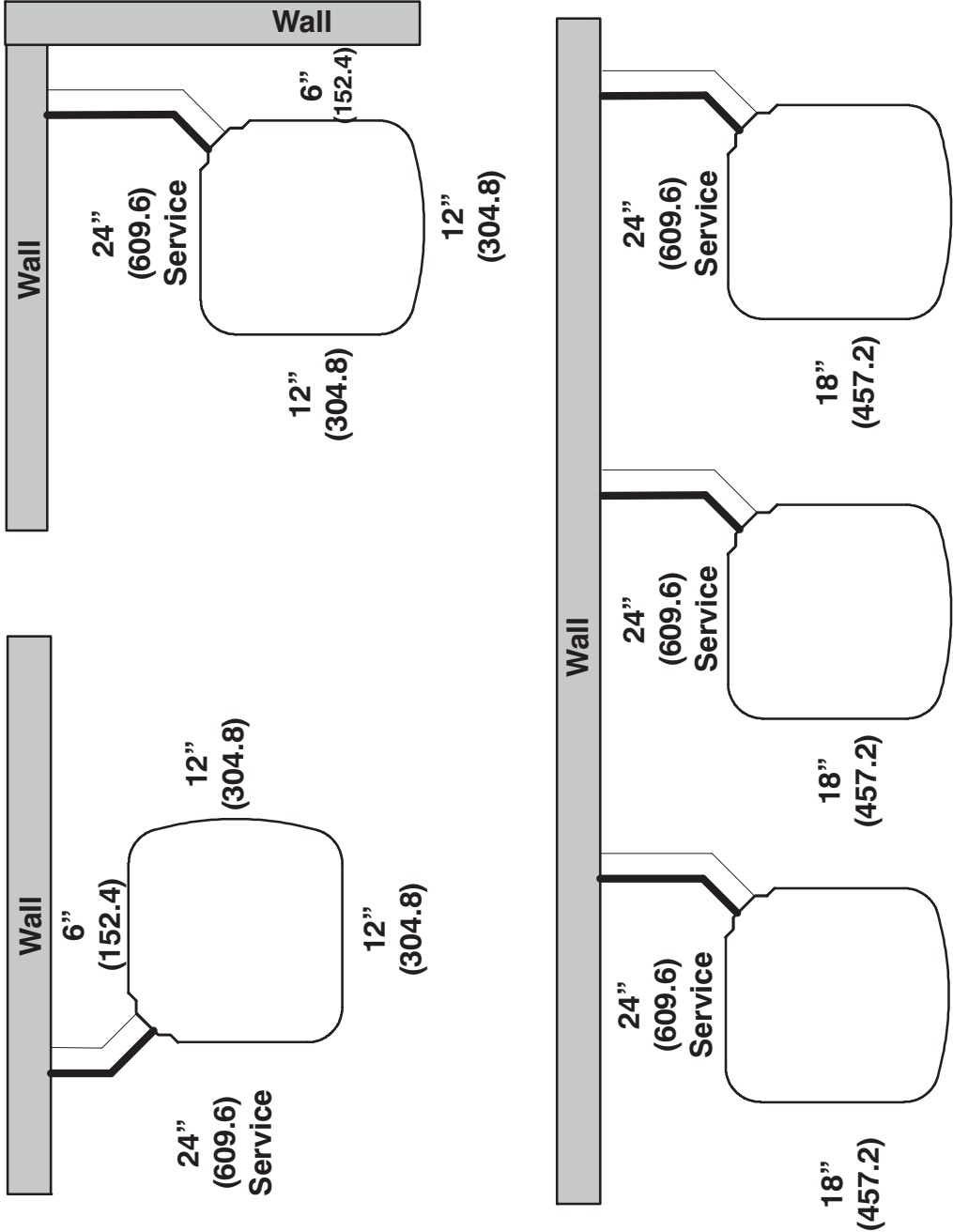


UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
-	660.4 X 660.4
18.24	800.1 X 800.1
30.36, 42.48, 60	889.0 X 889.0

213ANC

CLEARANCES

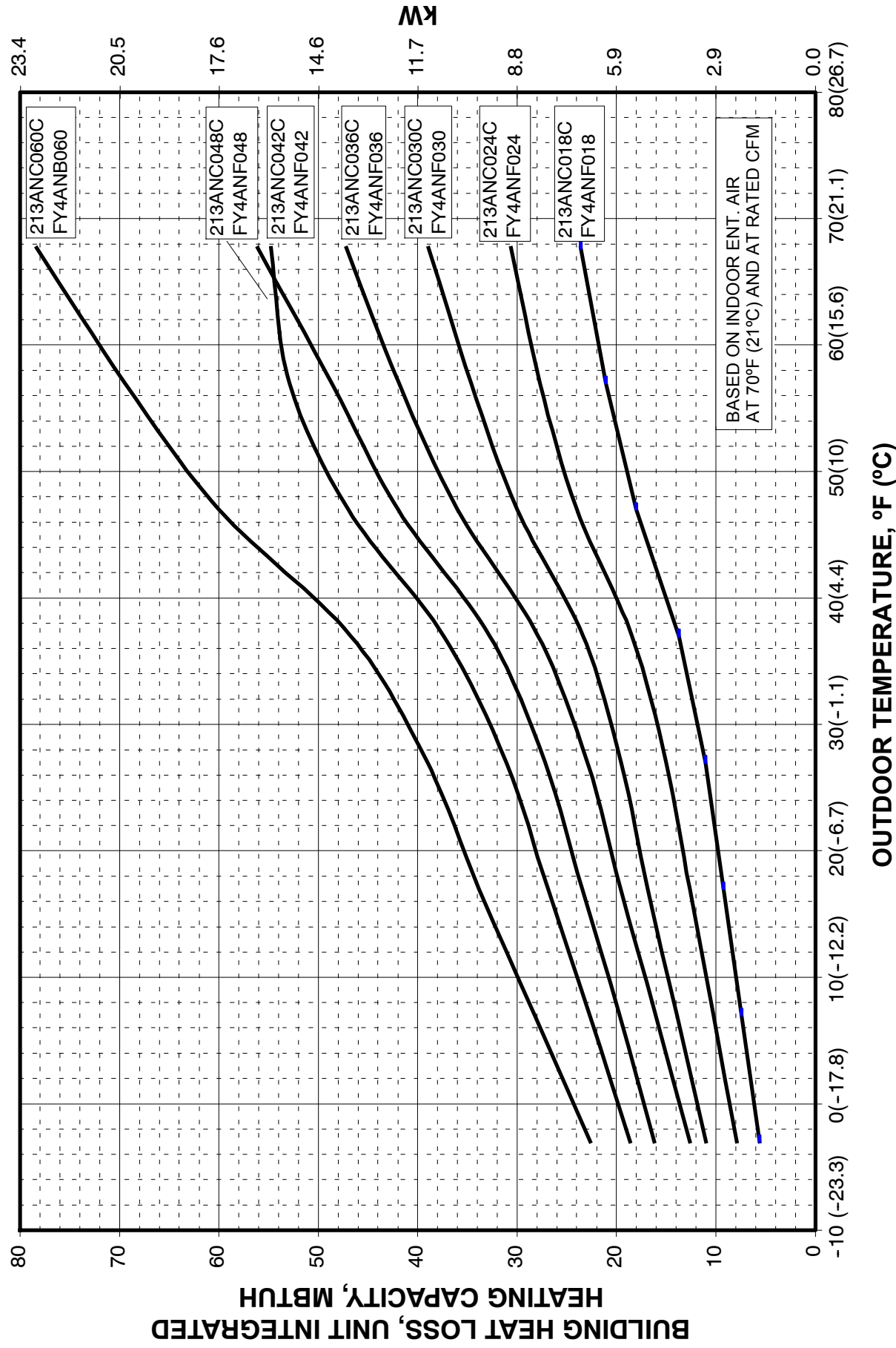
Clearances (various examples)



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.

213ANC BALANCE POINT WORKSHEET



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	Coil Model Number	Furnace Model Number	Cooling Capacity	EER	SEER	High Temp		HSPF	Low Temp	
						E Capacity	E COP		H Capacity	H COP
213ANC018****C	FB4CNF018		17,600	11.0	13.0	18,000	3.64	8.0	10,500	2.34
213ANC024****C	FY5BNF024+TXV		23,600	11.5	13.5	24,000	3.70	8.2	14,700	2.48
213ANC030****C	FB4CNF030		30,000	11.0	13.0	30,000	3.58	8.0	19,400	2.48
213ANC036****C	FY5BNF036		34,000	11.0	13.0	34,000	3.60	8.0	22,000	2.52
213ANC042****C	FY5BNF042		41,000	11.0	13.0	40,000	3.50	8.0	26,800	2.60
213ANC048****C	FY5BNF048		46,000	11.0	13.0	45,500	3.54	8.0	30,600	2.66
213ANC060****C	FY5BNB060		60,000	11.0	13.0	60,000	3.64	8.0	38,500	2.54

* AHRI = Air Conditioning, Heating & Refrigeration Institute

Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:

Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

High-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.

Low-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (–8°C) db 15°F (–9°C) wb air entering outdoor unit.

COP — Coefficient of Performance

HSPF — Heating Seasonal Performance Factor

EER — Energy Efficiency Ratio

SEER — Seasonal Energy Efficiency Ratio

TXV — Thermostatic Expansion Valve

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 System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
525	72 (22.2)	21.14	9.97	1.31	20.23	9.70	1.44	19.30	9.42	18.33	9.13	1.74	17.33	8.84	1.92	16.29	8.53	2.11	
	67 (19.4)	19.11	12.91	1.32	18.28	12.63	1.45	17.42	12.33	16.53	12.02	1.75	15.61	11.70	1.93	14.67	11.36	2.12	
	63††(17.2)	17.67	12.36	1.32	16.89	12.07	1.45	16.07	11.77	15.24	11.46	1.76	14.37	11.12	1.93	13.48	10.77	2.12	
	62 (16.7)	17.94	17.94	1.32	17.29	17.29	1.45	16.61	16.61	15.89	15.89	1.75	15.15	15.15	1.93	14.37	14.37	2.12	
600	72 (22.2)	21.35	10.51	1.35	20.43	10.23	1.48	19.47	9.95	18.47	9.66	1.78	17.45	9.37	1.96	16.38	9.06	2.15	
	67 (19.4)	19.32	13.80	1.36	18.47	13.51	1.48	17.60	13.20	16.70	12.87	1.79	15.77	12.52	1.97	14.82	12.13	2.16	
	63††(17.2)	17.87	13.19	1.36	17.07	12.88	1.49	16.25	12.56	15.40	12.22	1.80	14.53	11.85	1.97	13.66	13.66	2.16	
	62 (16.7)	18.49	18.49	1.36	17.81	17.81	1.49	17.09	17.09	16.35	16.35	1.79	15.57	15.57	1.97	14.75	14.75	2.16	
675	72 (22.2)	21.50	11.03	1.39	20.55	10.75	1.52	19.57	10.47	18.55	10.17	1.82	17.50	9.87	2.00	16.42	9.56	2.19	
	67 (19.4)	19.48	14.64	1.39	18.62	14.33	1.52	17.74	13.99	16.84	13.62	1.83	15.92	15.83	2.01	15.05	15.05	2.20	
	63††(17.2)	18.03	13.94	1.40	17.22	13.62	1.57	16.39	13.26	15.55	15.42	1.84	14.73	14.73	2.01	13.91	13.91	2.20	
	62 (16.7)	18.94	18.94	1.40	18.23	18.23	1.53	17.48	17.48	16.71	16.71	1.83	15.90	15.90	2.01	15.05	15.05	2.20	
700	72 (22.2)	27.69	13.24	1.72	26.58	12.90	1.90	25.42	12.54	24.21	12.18	2.32	22.95	11.80	2.57	21.62	11.40	2.83	
	67 (19.4)	25.07	17.12	1.71	24.04	16.77	1.89	22.97	16.39	21.10	21.85	2.32	20.69	15.58	2.56	19.48	15.13	2.82	
	63††(17.2)	23.20	16.40	1.71	22.23	16.04	1.89	21.22	15.66	20.09	20.16	2.31	19.06	14.82	2.55	17.91	14.35	2.81	
	62 (16.7)	23.50	23.50	1.71	22.69	22.69	1.89	21.84	21.84	20.94	20.94	2.32	20.00	20.00	2.56	19.00	19.00	2.82	
800	72 (22.2)	27.97	13.92	1.77	26.83	13.58	1.95	25.64	13.23	24.40	12.86	2.37	23.10	12.47	2.62	21.75	12.08	2.88	
	67 (19.4)	25.34	18.26	1.77	24.29	17.89	1.95	23.20	17.50	22.07	17.08	2.37	20.89	16.63	2.61	19.67	16.13	2.88	
	63††(17.2)	23.46	17.45	1.77	22.47	17.07	1.94	21.44	16.67	20.37	16.23	2.61	19.26	15.75	2.61	18.12	17.95	2.87	
	62 (16.7)	24.20	24.20	1.77	23.35	23.35	1.95	22.46	22.46	21.52	21.52	2.37	20.54	20.54	2.61	19.50	19.50	2.88	
900	72 (22.2)	28.16	14.58	1.82	26.99	14.23	2.00	25.78	13.88	24.51	13.50	2.43	23.19	13.12	2.67	21.81	12.72	2.94	
	67 (19.4)	25.54	19.33	1.82	24.48	18.93	2.00	23.38	18.51	22.24	18.04	2.42	21.07	17.52	2.67	19.89	17.89	2.93	
	63††(17.2)	23.66	18.42	1.82	22.66	18.01	2.00	21.62	17.56	20.55	17.06	2.42	19.46	19.46	2.66	18.40	18.40	2.92	
	62 (16.7)	24.76	24.76	1.82	23.88	23.88	2.00	22.96	22.96	21.99	21.99	2.42	20.96	20.96	2.67	19.89	19.89	2.93	
700	72 (22.2)	27.69	13.24	1.72	26.58	12.90	1.90	25.42	12.54	24.21	12.18	2.32	22.95	11.80	2.57	21.62	11.40	2.83	
	67 (19.4)	25.07	17.12	1.71	24.04	16.77	1.89	22.97	16.39	21.10	21.85	2.32	20.69	15.58	2.56	19.48	15.13	2.82	
	63††(17.2)	23.20	16.40	1.71	22.23	16.04	1.89	21.22	15.66	20.09	20.16	2.31	19.06	14.82	2.55	17.91	14.35	2.81	
	62 (16.7)	23.50	23.50	1.71	22.69	22.69	1.89	21.84	21.84	20.94	20.94	2.32	20.00	20.00	2.56	19.00	19.00	2.82	
800	72 (22.2)	27.97	13.92	1.77	26.83	13.58	1.95	25.64	13.23	24.40	12.86	2.37	23.10	12.47	2.62	21.75	12.08	2.88	
	67 (19.4)	25.34	18.26	1.77	24.29	17.89	1.95	23.20	17.50	22.07	17.08	2.37	20.89	16.63	2.61	19.67	16.13	2.88	
	63††(17.2)	23.46	17.45	1.77	22.47	17.07	1.94	21.44	16.67	20.37	16.23	2.61	19.26	15.75	2.61	18.12	17.95	2.87	
	62 (16.7)	24.20	24.20	1.77	23.35	23.35	1.95	22.46	22.46	21.52	21.52	2.37	20.54	20.54	2.61	19.50	19.50	2.88	
900	72 (22.2)	28.16	14.58	1.82	26.99	14.23	2.00	25.78	13.88	24.51	13.50	2.43	23.19	13.12	2.67	21.81	12.72	2.94	
	67 (19.4)	25.54	19.33	1.82	24.48	18.93	2.00	23.38	18.51	22.24	18.04	2.42	21.07	17.52	2.67	19.89	17.89	2.93	
	63††(17.2)	23.66	18.42	1.82	22.66	18.01	2.00	21.62	17.56	20.55	17.06	2.42	19.46	19.46	2.66	18.40	18.40	2.92	
	62 (16.7)	24.76	24.76	1.82	23.88	23.88	2.00	22.96	22.96	21.99	21.99	2.42	20.96	20.96	2.67	19.89	19.89	2.93	
700	72 (22.2)	27.69	13.24	1.72	26.58	12.90	1.90	25.42	12.54	24.21	12.18	2.32	22.95	11.80	2.57	21.62	11.40	2.83	
	67 (19.4)	25.07	17.12	1.71	24.04	16.77	1.89	22.97	16.39	21.10	21.85	2.32	20.69	15.58	2.56	19.48	15.13	2.82	
	63††(17.2)	23.20	16.40	1.71	22.23	16.04	1.89	21.22	15.66	20.09	20.16	2.31	19.06	14.82	2.55	17.91	14.35	2.81	
	62 (16.7)	23.50	23.50	1.71	22.69	22.69	1.89	21.84	21.84	20.94	20.94	2.32	20.00	20.00	2.56	19.00	19.00	2.82	
800	72 (22.2)	27.97	13.92	1.77	26.83	13.58	1.95	25.64	13.23	24.40	12.86	2.37	23.10	12.47	2.62	21.75	12.08	2.88	
	67 (19.4)	25.34	18.26	1.77	24.29	17.89	1.95	23.20	17.50	22.07	17.08	2.37	20.89	16.63	2.61	19.67	16.13	2.88	
	63††(17.2)	23.46	17.45	1.77	22.47	17.07	1.94	21.44	16.67	20.37	16.23	2.61	19.26	15.75	2.61	18.12	17.95	2.87	
	62 (16.7)	24.20	24.20	1.77	23.35	23.35	1.95	22.46	22.46	21.52	21.52	2.37	20.54	20.54	2.61	19.50	19.50	2.88	
900	72 (22.2)	28.16	14.58	1.82	26.99	14.23	2.00	25.78	13.88	24.51	13.50	2.43	23.19	13.12	2.67	21.81	12.72	2.94	
	67 (19.4)	25.54	19.33	1.82	24.48	18.93	2.00	23.38	18.51	22.24	18.04	2.42	21.07	17.52	2.67	19.89	17.89	2.93	
	63††(17.2)	23.66	18.42	1.82	22.66	18.01	2.00	21.62	17.56	20.55	17.06	2.42	19.46	19.46	2.66	18.40	18.40	2.92	
	62 (16.7)	24.76	24.76	1.82	23.88	23.88	2.00	22.96	22.96	21.99	21.99	2.42	20.96	20.96	2.67	19.89	19.89	2.93	

See notes on pg. 16

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 System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
213ANC030 Section With FY4ANF030 Indoor Section																			
875	72 (22.2)	35.68	18.19	2.21	34.00	17.52	2.46	32.20	16.82	2.74	30.30	16.09	3.05	28.24	15.31	3.38	25.95	14.46	3.73
	67 (19.4)	32.78	22.53	2.20	31.22	21.85	2.45	29.58	21.14	2.73	27.84	20.39	3.04	25.95	19.60	3.37	23.85	18.72	3.73
	63††(17.2)	30.65	21.89	2.19	29.19	21.21	2.45	27.64	20.49	2.73	26.02	19.74	3.03	24.25	18.94	3.36	22.30	18.07	3.72
	62 (16.7)	30.08	26.85	2.19	28.66	26.14	2.45	27.15	25.38	2.72	25.58	24.57	3.03	23.90	23.64	3.36	22.18	22.18	3.72
	57 (13.9)	28.84	28.84	2.19	27.71	27.71	2.44	26.49	26.49	2.72	25.20	25.20	3.03	23.78	23.78	3.36	22.19	22.19	3.72
1000	72 (22.2)	36.25	18.94	2.26	34.51	18.27	2.51	32.63	17.56	2.79	30.67	16.82	3.09	28.54	16.03	3.42	26.16	15.16	3.77
	67 (19.4)	33.33	23.82	2.25	31.71	23.13	2.50	30.00	22.40	2.78	28.19	21.64	3.08	26.22	20.83	3.41	24.06	19.93	3.77
	63††(17.2)	31.19	23.11	2.24	29.67	22.41	2.49	28.07	21.68	2.77	26.36	20.91	3.08	24.54	20.10	3.41	22.52	19.20	3.76
	62 (16.7)	30.66	28.61	2.24	29.19	27.85	2.49	27.65	27.02	2.77	26.04	26.04	3.07	24.51	24.51	3.41	22.82	22.82	3.77
	57 (13.9)	29.90	29.90	2.24	28.69	28.69	2.49	27.39	27.39	2.77	26.02	26.02	3.08	24.52	24.52	3.41	22.82	22.82	3.77
1125	72 (22.2)	36.68	19.67	2.30	34.86	18.98	2.55	32.95	18.27	2.83	30.93	17.52	3.14	28.72	16.72	3.46	26.30	15.85	3.82
	67 (19.4)	33.75	25.07	2.29	32.10	24.37	2.54	30.29	23.62	2.82	28.43	22.85	3.13	26.42	22.02	3.46	24.21	21.09	3.81
	63††(17.2)	31.61	24.28	2.28	30.04	23.57	2.54	28.37	22.82	2.81	26.63	22.04	3.12	24.75	21.20	3.45	22.68	20.27	3.81
	62 (16.7)	31.14	30.21	2.28	29.65	29.35	2.54	28.13	28.13	2.81	26.69	26.69	3.12	25.10	25.10	3.45	23.32	23.32	3.81
	57 (13.9)	30.77	30.77	2.28	29.49	29.49	2.53	28.13	28.13	2.81	26.69	26.69	3.12	25.10	25.10	3.45	23.32	23.32	3.81
CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																			
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 System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
213ANC036 Section With FY4ANF036 Indoor Section																			
1050	72 (22.2)	40.58	19.33	2.55	38.97	18.85	2.79	37.29	18.35	3.07	35.54	17.83	3.38	33.71	17.28	3.71	31.79	16.72	4.08
	67 (19.4)	36.72	25.14	2.54	35.24	24.63	2.79	33.70	24.09	3.06	32.09	23.52	3.37	30.41	22.92	3.70	28.67	22.27	4.07
	63††(17.2)	33.97	24.06	2.54	32.57	23.54	2.79	31.12	22.99	3.06	29.60	22.40	3.36	28.02	21.78	3.70	26.38	21.10	4.06
	62 (16.7)	34.63	34.63	2.54	33.45	33.45	2.79	32.22	32.22	3.06	30.92	30.92	3.37	29.54	29.54	3.70	28.10	28.10	4.07
	57 (13.9)	34.63	34.63	2.54	33.46	33.46	2.79	32.22	32.22	3.06	30.92	30.92	3.37	29.55	29.55	3.70	28.10	28.10	4.07
1200	72 (22.2)	40.93	20.34	2.63	39.28	19.85	2.88	37.56	19.35	3.15	35.76	18.82	3.46	33.88	18.27	3.80	31.92	17.71	4.16
	67 (19.4)	37.07	26.80	2.63	35.56	26.26	2.87	34.00	25.70	3.15	32.37	25.09	3.45	30.68	24.42	3.79	28.95	23.67	4.15
	63††(17.2)	34.31	25.58	2.62	32.89	25.03	2.87	31.41	24.44	3.14	29.88	23.80	3.45	28.29	23.08	3.78	26.67	26.67	4.14
	62 (16.7)	35.61	35.61	2.63	34.37	34.37	2.87	33.08	33.08	3.15	31.72	31.72	3.45	30.29	30.29	3.79	28.78	28.78	4.15
	57 (13.9)	35.61	35.61	2.63	34.38	34.38	2.87	33.09	33.09	3.15	31.72	31.72	3.45	30.29	30.29	3.79	28.78	28.78	4.15
1350	72 (22.2)	41.17	21.32	2.71	39.48	20.83	2.96	37.72	20.32	3.24	35.89	19.79	3.54	33.98	19.24	3.88	31.98	18.66	4.25
	67 (19.4)	37.34	28.36	2.71	35.82	27.77	2.96	34.25	27.15	3.23	32.61	26.46	3.54	30.95	30.70	3.87	29.30	29.30	4.24
	63††(17.2)	34.58	26.98	2.71	33.14	26.38	2.95	31.66	25.71	3.23	30.14	29.86	3.53	28.61	28.61	3.87	27.09	27.09	4.23
	62 (16.7)	36.39	36.39	2.71	35.10	35.10	2.95	33.76	33.76	3.23	32.35	32.35	3.54	30.87	30.87	3.87	29.30	29.30	4.24
	57 (13.9)	36.39	36.39	2.71	35.11	35.11	2.95	33.77	33.77	3.23	32.36	32.36	3.54	30.87	30.87	3.87	29.31	29.31	4.24

See notes on pg. 16

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 System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
		213ANC042 Section With FY4ANF042 Indoor Section																	
1225	72 (22.2)	49.87	23.55	2.88	47.74	22.90	3.25	45.58	22.23	3.63	43.38	21.57	4.02	41.14	20.89	4.43	38.87	20.20	4.84
	67 (19.4)	45.01	30.40	2.97	43.07	29.71	3.32	41.10	29.02	3.69	39.11	28.32	4.06	37.09	27.61	4.45	35.04	26.87	4.85
	63††(17.2)	41.59	29.11	3.04	39.76	28.42	3.38	37.94	27.73	3.73	36.08	27.02	4.09	34.20	26.30	4.47	32.30	25.54	4.85
	62 (16.7)	41.98	41.98	3.03	40.47	40.47	3.37	38.93	38.93	3.72	37.36	37.36	4.08	35.74	35.74	4.46	34.08	34.08	4.85
	57 (13.9)	41.98	41.98	3.03	40.48	40.48	3.37	38.94	38.94	3.72	37.36	37.36	4.08	35.75	35.75	4.46	34.09	34.09	4.85
1400	72 (22.2)	50.40	24.77	2.96	48.20	24.11	3.33	45.97	23.44	3.71	43.71	22.76	4.11	41.41	22.08	4.52	39.07	21.37	4.94
	67 (19.4)	45.51	32.43	3.05	43.52	31.72	3.41	41.50	31.00	3.77	39.47	30.26	4.15	37.41	29.49	4.54	35.34	28.68	4.95
	63††(17.2)	42.05	30.97	3.12	40.20	30.26	3.46	38.32	29.53	3.82	36.43	28.77	4.18	34.52	27.98	4.56	32.61	27.11	4.95
	62 (16.7)	43.26	43.26	3.09	41.67	41.67	3.44	40.05	40.05	3.79	38.39	38.39	4.16	36.69	36.69	4.55	34.94	34.94	4.95
	57 (13.9)	43.26	43.26	3.09	41.68	41.68	3.44	40.06	40.06	3.79	38.40	38.40	4.16	36.70	36.70	4.55	34.95	34.95	4.95
1575	72 (22.2)	50.75	25.93	3.04	48.50	25.25	3.41	46.22	24.58	3.80	43.90	23.89	4.20	41.55	23.21	4.61	39.16	22.49	5.03
	67 (19.4)	45.88	34.33	3.13	43.85	33.58	3.49	41.80	32.81	3.86	39.74	32.00	4.24	37.69	31.12	4.63	35.63	35.63	5.04
	63††(17.2)	42.39	32.70	3.20	40.51	31.94	3.55	38.61	31.15	3.90	36.71	30.28	4.27	34.81	34.72	4.65	33.02	33.02	5.04
	62 (16.7)	44.30	44.30	3.16	42.64	42.64	3.51	40.95	40.95	3.87	39.21	39.21	4.25	37.44	37.44	4.63	35.62	35.62	5.04
	57 (13.9)	44.31	44.31	3.16	42.65	42.65	3.51	40.95	40.95	3.87	39.22	39.22	4.25	37.44	37.44	4.63	35.62	35.62	5.04
		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB ° F (° C)	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
		213ANC048 Section With FY4ANF048 Indoor Section																	
1400	72 (22.2)	55.91	28.69	3.27	53.17	27.61	3.69	50.32	26.51	4.14	47.35	25.37	4.62	44.22	24.19	5.14	40.79	22.92	5.68
	67 (19.4)	50.94	35.60	3.29	48.42	34.50	3.70	45.81	33.38	4.14	43.09	32.22	4.62	40.22	31.01	5.13	37.12	29.72	5.67
	63††(17.2)	47.30	34.42	3.30	44.94	33.31	3.71	42.50	32.19	4.14	39.97	31.03	4.61	37.30	29.83	5.12	34.43	28.54	5.65
	62 (16.7)	46.36	42.46	3.30	44.07	41.31	3.71	41.71	40.11	4.14	39.29	38.83	4.61	36.88	36.88	5.12	34.55	34.55	5.66
	57 (13.9)	44.73	44.73	3.31	42.90	42.90	3.71	41.00	41.00	4.14	39.01	39.01	4.61	36.88	36.88	5.12	34.55	34.55	5.66
1600	72 (22.2)	56.87	29.96	3.35	54.02	28.87	3.77	51.05	27.75	4.22	47.97	26.60	4.70	44.71	25.39	5.22	41.17	24.10	5.77
	67 (19.4)	51.86	37.77	3.37	49.23	36.65	3.78	46.50	35.50	4.23	43.67	34.31	4.70	40.70	33.08	5.21	37.49	31.75	5.76
	63††(17.2)	48.18	36.45	3.38	45.72	35.32	3.79	43.17	34.17	4.23	40.54	32.99	4.70	37.77	31.75	5.21	34.80	30.43	5.74
	62 (16.7)	47.31	45.39	3.38	44.96	44.14	3.79	42.55	42.48	4.23	40.37	40.37	4.70	38.10	38.10	5.21	35.62	35.62	5.75
	57 (13.9)	46.48	46.48	3.39	44.53	44.53	3.79	42.50	42.50	4.23	40.37	40.37	4.70	38.10	38.10	5.21	35.62	35.62	5.75
1800	72 (22.2)	57.57	31.16	3.43	54.63	30.06	3.85	51.56	28.92	4.30	48.39	27.76	4.79	45.04	26.54	5.31	41.40	25.23	5.85
	67 (19.4)	52.52	39.83	3.45	49.80	38.69	3.87	46.99	37.52	4.31	44.08	36.31	4.79	41.02	35.05	5.30	37.74	33.67	5.84
	63††(17.2)	48.83	38.38	3.46	46.28	37.23	3.87	43.66	36.06	4.31	40.94	34.84	4.79	38.10	33.58	5.29	35.06	32.20	5.83
	62 (16.7)	48.14	47.96	3.47	45.86	45.86	3.87	43.72	43.72	4.31	41.48	41.48	4.79	39.09	39.09	5.30	36.47	36.47	5.84
	57 (13.9)	47.92	47.92	3.47	45.87	45.87	3.87	43.73	43.73	4.31	41.48	41.48	4.79	39.10	39.10	5.30	36.47	36.47	5.84

See notes on pg. 16

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	Sens† Total System KW**	Capacity MBtuh Total	Sens† Total System KW**	Capacity MBtuh Total	Sens† Total System KW**	Capacity MBtuh Total	Sens† Total System KW**	Capacity MBtuh Total	Sens† Total System KW**	Capacity MBtuh Total	Sens† Total System KW**						
213ANC060 Section With F14AN060 Indoor Section																			
1750	72 (22.2)	71.76	35.94	4.48	68.33	34.62	4.91	64.65	33.23	5.39	60.80	31.79	5.92	56.64	30.26	6.49	52.03	28.59	7.10
	67 (19.4)	65.75	44.85	4.41	62.59	43.50	4.85	59.22	42.08	5.33	55.68	40.61	5.85	51.88	39.05	6.42	47.68	37.35	7.04
	63††(17.2)	61.32	43.48	4.36	58.35	42.12	4.80	54.35	40.70	5.28	51.91	39.23	5.80	48.37	37.67	6.37	44.49	35.97	6.99
	62 (16.7)	60.14	53.68	4.35	57.25	52.27	4.79	54.21	50.77	5.27	51.03	49.15	5.79	47.77	47.77	6.37	44.57	44.57	6.99
	57 (13.9)	58.03	58.03	4.33	55.71	55.71	4.77	53.25	53.25	5.25	50.62	50.62	5.79	47.77	47.77	6.37	44.58	44.58	6.99
2000	72 (22.2)	72.84	37.47	4.61	69.29	36.15	5.04	65.46	34.73	5.52	61.46	33.27	6.05	57.15	31.72	6.61	52.40	30.03	7.22
	67 (19.4)	66.81	47.52	4.54	63.51	46.15	4.98	60.00	44.70	5.45	56.33	43.20	5.98	52.38	41.61	6.55	48.05	39.86	7.16
	63††(17.2)	62.36	45.98	4.49	59.27	44.60	4.92	56.00	43.16	5.40	52.57	41.65	5.93	48.90	40.06	6.50	44.88	38.31	7.11
	62 (16.7)	61.27	57.34	4.48	58.29	55.81	4.92	55.21	54.85	5.40	52.27	52.27	5.93	49.22	49.22	6.51	45.82	45.82	7.13
	57 (13.9)	60.18	60.18	4.47	57.71	57.71	4.91	55.07	55.07	5.39	52.27	52.27	5.93	49.23	49.23	6.51	45.82	45.82	7.13
2250	72 (22.2)	73.63	38.93	4.73	69.95	37.59	5.17	66.00	36.16	5.65	61.89	34.68	6.17	57.46	33.11	6.74	52.59	31.41	7.35
	67 (19.4)	67.55	50.06	4.67	64.15	48.67	5.10	60.52	47.20	5.58	56.75	45.67	6.10	52.70	44.03	6.67	48.27	42.23	7.28
	63††(17.2)	63.11	48.36	4.62	59.91	46.96	5.05	56.54	45.49	5.53	53.00	43.95	6.05	49.24	42.31	6.62	45.12	40.50	7.23
	62 (16.7)	62.22	60.55	4.61	59.32	59.32	5.04	56.54	56.54	5.53	53.58	53.58	6.06	50.37	50.37	6.64	46.79	46.79	7.26
	57 (13.9)	61.93	61.93	4.60	59.32	59.32	5.04	56.54	56.54	5.53	53.59	53.59	6.06	50.38	50.38	6.64	46.79	46.79	7.26

* Tested combination.

† 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 unit at the same elevation per AHRI standard 210/240-94. If additional tubing length and/or indoor unit is located above unit, a slight variation in capacity may occur.

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

†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F (27°C) 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

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		COIL ENTERING AIR TEMPERATURES ° F (° C)																							
EDB	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)									
		Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt						
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*						
213ANC018 Section With FY4ANF018 Indoor Section																									
65	525	6.25	5.75	1.28	1.31	8.15	7.49	1.31	1.34	12.53	11.13	1.37	15.16	13.79	1.41	18.07	18.07	1.46	21.20	23.84	1.58				
	600	6.43	5.91	1.31	1.34	8.33	7.66	1.34	10.41	9.49	1.37	12.77	11.34	1.39	15.44	14.05	1.43	18.35	18.35	1.48	21.20	23.49	1.58		
	675	6.59	6.06	1.35	1.37	8.50	7.81	1.37	10.59	9.66	1.39	12.98	11.53	1.41	15.67	14.26	1.45	18.58	18.58	1.50	21.14	21.14	1.54		
70	525	5.93	5.46	1.33	1.36	7.85	7.21	1.36	9.93	9.05	1.39	12.20	10.83	1.43	14.83	13.49	1.47	17.71	17.71	1.52	20.88	20.88	1.59	23.74	1.65
	600	6.11	5.62	1.36	1.39	8.04	7.39	1.39	10.13	9.23	1.42	12.43	11.04	1.45	15.09	13.75	1.48	18.00	18.00	1.53	21.05	21.05	1.59	23.59	1.65
	675	6.27	5.77	1.39	1.42	8.21	7.54	1.42	10.31	9.40	1.45	12.64	11.22	1.47	15.32	13.93	1.50	18.24	18.24	1.55	21.08	21.08	1.60	23.19	1.65
75	525	5.59	5.14	1.37	1.41	7.54	6.93	1.41	9.63	8.78	1.45	11.89	10.56	1.49	14.48	13.17	1.53	17.35	17.35	1.59	20.48	20.48	1.66	23.59	1.73
	600	5.76	5.30	1.40	1.44	7.72	7.10	1.44	9.83	8.96	1.47	12.12	10.76	1.50	14.75	13.42	1.54	17.64	17.64	1.59	20.80	20.80	1.66	23.53	1.72
	675	5.92	5.45	1.44	1.47	7.90	7.26	1.47	10.01	9.13	1.50	12.32	10.95	1.53	14.98	13.63	1.56	17.89	17.89	1.61	20.94	20.94	1.67	23.41	1.73
COIL ENTERING AIR TEMPERATURES ° F (° C)																									
INDOOR AIR		-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)									
EDB	CFM	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt	Capacity MBtuh		Total Syst. KWt						
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*						
213ANC024 Section With FY4ANF024 Indoor Section																									
65	700	8.76	8.06	1.55	1.60	11.26	10.35	1.60	13.95	12.72	1.65	17.00	15.10	1.70	20.37	18.53	1.78	24.07	24.07	1.87	27.85	27.85	1.96	30.96	2.05
	800	8.98	8.26	1.59	1.64	11.49	10.56	1.64	14.20	12.95	1.68	17.28	15.35	1.73	20.67	18.81	1.80	24.39	24.39	1.89	27.69	27.69	1.96	30.60	2.05
	900	9.19	8.45	1.63	1.68	11.71	10.76	1.68	14.43	13.16	1.71	17.54	15.58	1.76	20.94	19.05	1.83	24.61	24.61	1.91	27.37	27.37	1.97	29.19	2.03
70	700	8.37	7.70	1.60	1.66	10.91	10.03	1.66	13.63	12.43	1.72	16.62	14.78	1.78	19.97	18.17	1.85	23.67	23.67	1.95	27.68	27.68	2.06	30.92	2.15
	800	8.59	7.90	1.64	1.70	11.15	10.24	1.70	13.88	12.65	1.75	16.91	15.02	1.80	20.28	18.46	1.87	24.00	24.00	1.96	27.70	27.70	2.08	30.64	2.14
	900	8.80	8.09	1.69	1.74	11.36	10.44	1.74	14.11	12.86	1.79	17.17	15.25	1.83	20.57	18.72	1.90	24.29	24.29	1.99	27.55	27.55	2.06	30.32	2.15
75	700	7.94	7.31	1.66	1.73	10.53	9.68	1.73	13.28	12.11	1.79	16.24	14.43	1.86	19.59	17.82	1.93	23.26	23.26	2.03	27.29	27.29	2.16	30.96	2.25
	800	8.17	7.51	1.70	1.77	10.77	9.90	1.77	13.54	12.34	1.83	16.53	14.68	1.88	19.90	18.11	1.95	23.60	23.60	2.04	27.54	27.54	2.16	30.63	2.24
	900	8.38	7.71	1.75	1.81	10.99	10.10	1.81	13.77	12.55	1.86	16.79	14.91	1.91	20.18	18.36	1.98	23.89	23.89	2.07	27.56	27.56	2.16	30.41	2.24

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		COIL ENTERING AIR TEMPERATURES ° F (° C)															
EDB	CFM	-3 (–19.4)		7 (–13.9)		17 (–8.3)		27 (–2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)	
		Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*		
213ANC030 Section With FY4ANF030 Indoor Section																	
65	875	12.18	11.20	15.28	14.04	19.6	18.56	16.92	2.06	21.97	19.51	2.16	25.70	23.39	2.28	30.01	30.01
	1000	12.43	11.43	15.55	14.29	1.97	18.85	17.19	2.05	22.26	19.77	2.15	26.09	23.75	2.26	30.48	30.48
	1125	12.65	11.64	15.79	14.51	1.99	19.11	17.42	2.06	22.52	20.00	2.15	26.43	24.05	2.25	30.86	30.86
70	875	11.72	10.79	14.88	13.67	2.05	18.18	16.58	2.15	21.67	19.25	2.27	25.29	23.01	2.39	29.55	29.55
	1000	11.98	11.02	15.15	13.92	2.06	18.48	16.85	2.16	22.01	19.54	2.25	25.67	23.36	2.37	30.00	30.00
	1125	12.20	11.22	15.39	14.14	2.08	18.74	17.08	2.16	22.21	19.73	2.25	26.00	23.66	2.36	30.40	30.40
75	875	11.23	10.33	14.44	13.27	2.14	17.78	16.21	2.25	21.29	18.91	2.38	24.94	22.69	2.51	29.10	29.10
	1000	11.49	10.57	14.72	13.53	2.15	18.08	16.48	2.25	21.62	19.20	2.36	25.27	23.00	2.48	29.56	29.56
	1125	11.71	10.78	14.96	13.75	2.17	18.33	16.72	2.26	21.90	19.45	2.36	25.58	23.28	2.47	29.93	29.93
213ANC036 Section With FY4ANF036 Indoor Section																	
COIL ENTERING AIR TEMPERATURES ° F (° C)																	
EDB	CFM	-3 (–19.4)		7 (–13.9)		17 (–8.3)		27 (–2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)	
		Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*	Capacity MBtuh Total	Total Syst. KWt Integ*		
65	1050	13.91	12.79	2.44	17.58	16.16	2.51	21.54	19.64	2.58	25.86	22.97	2.65	30.69	27.92	2.75	36.05
	1200	14.26	13.12	2.51	17.95	16.50	2.58	21.92	19.99	2.64	26.29	23.35	2.70	31.14	28.34	2.80	36.53
	1350	14.59	13.43	2.59	18.30	16.81	2.65	22.28	20.31	2.70	26.68	23.69	2.76	31.55	28.71	2.85	36.96
70	1050	13.36	12.29	2.53	17.10	15.72	2.61	21.09	19.23	2.68	25.40	22.56	2.76	30.19	27.47	2.86	35.51
	1200	13.72	12.62	2.60	17.47	16.06	2.67	21.48	19.59	2.74	25.82	22.93	2.81	30.65	27.89	2.91	36.00
	1350	14.06	12.93	2.68	17.83	16.38	2.74	21.84	19.92	2.80	26.20	23.27	2.86	31.06	28.26	2.96	36.42
75	1050	12.77	11.75	2.61	16.59	15.24	2.71	20.62	18.80	2.79	24.95	22.16	2.87	29.67	27.00	2.98	34.97
	1200	13.12	12.07	2.69	16.96	15.59	2.77	21.02	19.16	2.85	25.36	22.53	2.92	30.14	27.43	3.02	35.46
	1350	13.46	12.39	2.76	17.32	15.91	2.84	21.38	19.50	2.91	25.75	22.87	2.98	30.55	27.80	3.07	35.90

See notes on pg. 20

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		COIL ENTERING AIR TEMPERATURES °F (°C)																							
EDB	CFM	-3 (-19.4)			7 (-13.9)			17 (-8.3)			27 (-2.8)			37 (2.8)			47 (8.3)			57 (13.9)			67 (19.4)		
		Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†
213ANC042 Section With FY4ANF042 Indoor Section																									
65	1225	17.65	16.24	2.99	21.43	19.69	3.06	25.76	23.51	3.13	30.65	27.23	3.20	36.09	32.84	3.31	42.14	42.14	3.45	48.87	48.87	3.64	56.38	56.38	3.88
	1400	18.03	16.59	3.06	21.84	20.07	3.13	26.21	23.90	3.19	31.10	27.62	3.27	36.53	33.24	3.37	42.55	42.55	3.52	49.29	49.29	3.71	56.81	56.81	3.95
	1575	18.39	16.92	3.15	22.22	20.42	3.21	26.62	24.27	3.26	31.51	27.98	3.34	36.91	33.59	3.45	42.93	42.93	3.60	49.65	49.65	3.79	57.15	57.15	4.03
70	1225	17.25	15.87	3.05	21.03	19.32	3.14	25.33	23.09	3.21	30.17	26.79	3.30	35.56	32.36	3.41	41.58	41.58	3.55	48.23	48.23	3.75	55.69	55.69	3.99
	1400	17.64	16.22	3.13	21.43	19.69	3.21	25.76	23.49	3.28	30.63	27.20	3.36	36.02	32.77	3.47	42.00	42.00	3.62	48.67	48.67	3.82	56.10	56.10	4.06
	1575	18.00	16.56	3.21	21.81	20.04	3.29	26.17	23.86	3.35	31.04	27.57	3.43	36.42	33.14	3.54	42.38	42.38	3.70	49.03	49.03	3.89	56.47	56.47	4.14
75	1225	16.84	15.49	3.12	20.63	18.96	3.22	24.86	22.67	3.30	29.65	26.33	3.40	35.02	31.87	3.51	40.98	40.98	3.66	47.59	47.59	3.86	54.98	54.98	4.11
	1400	17.22	15.84	3.20	21.03	19.33	3.29	25.30	23.07	3.37	30.14	26.77	3.46	35.50	32.30	3.57	41.43	41.43	3.72	48.03	48.03	3.92	55.42	55.42	4.18
	1575	17.59	16.18	3.28	21.41	19.68	3.37	25.71	23.44	3.44	30.56	27.14	3.53	35.91	32.68	3.64	41.83	41.83	3.80	48.43	48.43	4.00	55.79	55.79	4.26
COIL ENTERING AIR TEMPERATURES °F (°C)																									
EDB	CFM	-3 (-19.4)			7 (-13.9)			17 (-8.3)			27 (-2.8)			37 (2.8)			47 (8.3)			57 (13.9)			67 (19.4)		
		Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†	Capacity MBtuh Total	Integ*	Total Syst. KW†
213ANC048 Section With FY4ANF048 Indoor Section																									
65	1400	20.32	18.69	3.08	24.71	22.70	3.20	29.50	26.89	3.34	35.00	31.08	3.51	41.07	37.37	3.70	47.35	47.35	3.85	53.79	53.79	4.08	57.88	57.88	4.21
	1600	20.68	19.03	3.13	25.10	23.06	3.24	29.95	27.31	3.36	35.48	31.51	3.51	41.58	37.84	3.65	47.31	47.31	3.81	51.83	51.83	3.95	53.43	53.43	3.98
	1800	21.02	19.34	3.18	25.46	23.40	3.28	30.34	27.67	3.40	35.92	31.90	3.54	41.76	38.00	3.66	47.12	47.12	3.81	48.80	48.80	3.84	50.11	50.11	3.86
70	1400	19.90	18.31	3.22	24.32	22.35	3.35	29.10	26.53	3.50	34.43	30.58	3.67	40.50	36.86	3.87	46.93	46.93	4.04	53.40	53.40	4.28	58.72	58.72	4.47
	1600	20.27	18.65	3.26	24.69	22.69	3.38	29.52	26.91	3.52	35.00	31.09	3.68	41.08	37.39	3.84	47.00	47.00	4.00	52.92	52.92	4.20	54.77	54.77	4.23
	1800	20.61	18.96	3.32	25.06	23.02	3.43	29.90	27.28	3.55	35.42	31.46	3.70	41.45	37.72	3.83	46.93	46.93	3.99	50.21	50.21	4.08	51.56	51.56	4.10
75	1400	19.46	17.91	3.35	23.89	21.95	3.50	28.68	26.15	3.66	33.93	30.13	3.83	39.93	36.34	4.05	46.47	46.47	4.24	52.95	52.95	4.48	59.40	59.40	4.74
	1600	19.83	18.25	3.40	24.28	22.31	3.53	29.12	26.55	3.68	34.42	30.57	3.84	40.50	36.86	4.04	46.66	46.66	4.19	52.85	52.85	4.41	55.90	55.90	4.50
	1800	20.18	18.56	3.45	24.64	22.64	3.57	29.50	26.90	3.71	34.85	30.95	3.86	40.99	37.30	4.02	46.66	46.66	4.18	51.25	51.25	4.32	52.85	52.85	4.35

See notes on pg. 20

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		COIL ENTERING AIR TEMPERATURES ° F (° C)															67 (19.4)					
		-3 (-19.4)			7 (-13.9)			17 (-8.3)			27 (-2.8)			37 (2.8)			47 (8.3)			57 (13.9)		
		Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†
EDB	CFM	Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
213ANC060 Section With FYA1NB060 Indoor Section																						
65	1750	24.88	22.89	3.74	30.87	28.37	3.89	37.21	33.93	4.05	43.83	39.02	4.23	51.32	46.70	4.44	59.95	59.95	4.70	69.66	69.66	4.92
	2000	25.46	23.42	3.81	31.47	28.92	3.95	37.83	34.50	4.10	44.62	39.63	4.26	52.13	47.44	4.44	61.02	61.02	4.66	70.27	70.27	4.86
	2250	25.98	23.90	3.90	32.01	29.42	4.02	38.41	35.02	4.15	45.23	40.17	4.30	52.88	48.12	4.47	61.90	61.90	4.65	70.54	70.54	4.84
70	1750	24.04	22.12	3.89	30.11	27.67	4.06	36.48	33.26	4.24	43.27	38.43	4.43	50.57	46.01	4.64	58.99	58.99	4.91	68.75	68.75	5.15
	2000	24.61	22.64	3.97	30.72	28.23	4.12	37.15	33.87	4.28	43.95	39.03	4.45	51.36	46.74	4.64	60.00	60.00	4.88	69.46	69.46	5.08
	2250	25.13	23.12	4.06	31.27	28.73	4.19	37.73	34.40	4.34	44.96	39.57	4.49	52.05	47.37	4.67	60.96	60.96	4.87	69.87	69.87	5.06
75	1750	23.17	21.32	4.06	29.30	26.93	4.24	35.75	32.59	4.43	42.55	37.79	4.63	49.81	45.33	4.86	57.85	57.85	5.12	67.81	67.81	5.39
	2000	23.72	21.82	4.13	29.91	27.49	4.30	36.40	33.19	4.47	43.26	38.42	4.65	50.60	46.05	4.85	59.07	59.07	5.10	68.62	68.62	5.31
	2250	24.23	22.29	4.22	30.47	28.00	4.37	36.99	33.73	4.53	43.88	38.97	4.69	51.29	46.68	4.88	59.98	59.98	5.09	69.11	69.11	5.29

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

* The Btuh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.

† The kW values include the compressor, fan motor, and indoor blower motor. The kW from supplement heaters should be added to these values to obtain total system kilowatts.

EDB — Entering Dry Bulb

GUIDE SPECIFICATIONS

GENERAL

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

213ANC

1-1/2 TO 5 NOMINAL TONS

System Description

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

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- 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 are pressure tested and the outdoor unit is leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

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

Unit Cabinet

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

Fans

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

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

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.
- ArmorPlate coating - Aluminum fin material is pre-coated on both sides with a corrosion protective epoxy phenolic coating.

Refrigeration Components

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

Operating Characteristics

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

213ANC

