27SCA5
Comfort™ Series Single-Stage Heat Pump with Puron Advance™ Refrigerant
1-1/2 To 5 Tons

Carrier

Product Data

Puron ADVANCE™

This unit has been designed utilizing Carrier's non-ozone depleting and low global warming potential Puron Advance™ refrigerant.
Heat pumps with Puron Advance™ refrigerant provide a collection of features unmatched by any other family of equipment.

Industry leading Features / Benefits

Efficiency

- 14.3 - 16.0 SEER2 / 10.0 - 12.5 EER2 / 7.5 - 7.8 HSPF2 (depending on unit size and indoor combination installed)
- Microtube technology refrigeration system
- Indoor air quality accessories available

Comfort

- System supports programmable or standard thermostat controls

Sound

- Sound levels as low as 70 dBA

Reliability

- Non-ozone depleting and low global warming potential Puron Advance™ refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ Ultra Protection Package:

- Solid, durable sheet metal construction
- Dense wire coil guard

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 Long Line Guide for more information.)
- Low ambient cooling (down to 0°F/-17.8°C) with approved low ambient accessory kits

Limited Warranty

- 5-year parts limited warranty (including compressor and coil)
  10-year parts limited warranty (including compressor and coil) with timely registration*
  – Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
  * Applies to original purchaser/homeowner and not available to subsequent owners except in jurisdictions where applicable laws dictate otherwise.

See warranty certificate for complete details and restrictions.

Model Number Nomenclature

1	2	3	4	5	6	7,8	9	10	11	12
N	N	A	A	A/N	N	N	A/N	A/N	A/N	N
2	**7**	**S**	**C**	**A**	**5**	**18**	**A**	**0**	**0**	**3**
Refrigerant and OD Type		OD Design Type	Tier	Major Series	SEER2	Nominal Cooling Capacity	Region	Feature	Special Feature	Voltage
27 = Puron Advance™ (R-454B) HP		S = Single Stage	C=Comfort	A = Initial Series	5=14.3 SEER2	**18** = 18,000 BTUH (1.5 Tons) **24** = 24,000 BTUH (2 Tons) **30** = 30,000 BTUH (2.5 Tons) **36** = 36,000 BTUH (3 Tons) **42** = 42,000 BTUH (3.5 Tons) **48** = 48,000 BTUH (4 Tons) **60** = 60,000 BTUH (5 Tons)	A=Standard HP	0=Standard	0=Standard	3=208-230-1 5=208/230-3 6=460-3-60 1=575-3-60

AHRI CERTIFIED www.ahridirectory.org
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.

Certified System
Quality
ISO 9001
SAI GLOBAL

C UL US

energy
ENERGY STAR

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 Ratings Database here: www.MyCarrierRatings.com

CATALOG ORDERING NUMBERS

Size	Model Number
18	27SCA518A003
24	27SCA524A003
30	27SCA530A003
36	27SCA536A003 27SCA536A005 27SCA536A006 27SCA536A001
42	27SCA542A003
48	27SCA548A003 27SCA548A005 27SCA548A006 27SCA548A001
60	27SCA560A003 27SCA560A005 27SCA560A006 27SCA560A001

Standard Features

Feature	18	24	30	36	42	48	60
Puron Advance™ Refrigerant	X	X	X	X	X	X	X
Scroll Compressor	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
Loss of Charge Switch	X	X	X	X	X	X	X

X = Standard

Physical Data

UNIT SIZE SERIES	18	24	30	36	42	48	60
Compressor Type	Scroll						
REFRIGERANT	Puron Advance™ (R-454B)						
Factory Charge lb (kg)*	6.5(2.95)	5.4(2.45)	6.1(2.77)	7.6(3.45)	7.3(3.31)	10.5(4.76)	8.7(3.95)
Outdoor Heating Piston #	42	46	52	52	61	65	70
COND FAN	Forward Swept or Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1900	3500	3000	3500	3000	3800	4300
Motor HP	1/12	1/10	1/10	1/4	1/5	1/4	1/4
Motor RPM	800	825	825	825	1100	1110	800
COND COIL							
Face Area (Sq ft)	17.2	19.3	21.4	17.2	17.2	21.4	22.6
Fins per In.	20	20	20	20	20	20	20
Rows	1	1	1	2	2	2	2
Circuits	7	6	7	8	10	12	12
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
Rated Liquid Line‡	3/8"						

*. For 15 ft. lineset
†. 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.
‡. See Liquid Line Sizing For Cooling Only Systems with Puron Advance™ (R-454B) Refrigerant tables.
Note: See unit Installation Instructions for proper installation

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Vapor Line Sizing and Cooling Capacity Loss

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

Vapor Line Sizing and Cooling Capacity Losses - Puron Advance™ Refrigerant 1- Stage Heat Pump Applications

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Acceptable Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m) 1-Stage HP with Puron Advance™								
			Total Equivalent Line Length (ft)								
			Standard Application		Long Line Application Requries Accessories						
			26-50	51-80	81-100	101-125	126-150	151-175	176-200	201-225	226-250
18	3/8	1/2	1	2	3	5	6	7	8	9	11
		5/8	0	1	1	1	2	2	2	3	3
24	3/8	5/8	0	1	2	2	3	3	4	5	5
		3/4	0	0	1	1	1	1	1	2	2
30	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
36	3/8	5/8	1	2	4	5	6	8	9	10	12
		3/4	0	1	1	2	2	3	3	4	4
		7/8	0	0	0	1	1	1	1	2	2
42	3/8	3/4	0	1	2	2	3	4	4	5	6
		7/8	0	0	1	1	1	2	2	2	3
48	3/8	3/4	0	1	2	3	4	5	5	6	7
		7/8	0	0	1	1	2	2	2	3	3
60	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 in Table 1.											

Refrigerant Piping Length Limitations

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

Maximum Line Lengths for Heat Pump Applications

	MAXIMUM ACTUAL LENGTH* ft (m)	MAXIMUM EQUIVALENT LENGTH{ ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

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

Maximum Total Equivalent Length* - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	HP with Puron Advance™ Refrigerant - Maximum Total Equivalent Length Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
18,000	3/8	250*	250*	250*	250*	250*	250*	250*
24,000	3/8	250*	250*	250*	250*	250*	250*	250*
30,000	3/8	250*	250*	250*	250*	250*	250*	250*
36,000	3/8	250*	250*	250*	250*	250*	250*	250*
42,000	3/8	250*	250*	250*	250*	250*	250*	150
48,000	3/8	250*	250*	250*	250*	230	160	—
60,000	3/8	250*	225*	190	150	110	—	—

*.Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.
— = outside acceptable range

Long Line Applications

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Heat Pump systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

HP with Puron Advance™ Refrigerant Long Line Description ft (m)
Beyond these lengths, long line accessories are required

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8	80 (24.4)	20 (6.1) vertical or 80 (24.4) total	80 (24.4)

Note: See Long Line Guideline for details

Accessories

KIT NUMBER	KIT NAME	18	24	30	36	42	48	60
KAACH1701AAA	Crankcase Heater	X	X	X	X			
KAACH1601AAA	Crankcase Heater					X	X	X
KAACH2501AAA	Crankcase Heater (460-3)				X			
KAACH2601AAA	Crankcase Heater (460-3)						X	X
KAACH2801AAA	Crankcase Heater (575-3)				X			
KAACH2701AAA	Crankcase Heater (575-3)						X	X
KAATD0101TDR	Time Delay Relay	X	X	X	X	X	X	X
KHAIR0201AAA	Isolation Relay	X	X	X	X	X	X	X
KHALS0401LLS	Solenoid Valve Kit	X	X	X	X	X	X	X
KAAHI0501PUR	High Pressure Switch	X	X	X	X	X	X	X
KHASS0606MPK	Snow Stand	X	X	X	X	X	X	X
KSACY0101AAA	Cycle Protector	X	X	X	X	X	X	X
KSAFT0101AAA	Evaporator Freeze Stat	X	X	X	X	X	X	X
KSAHS2501AAA	Hard Start (not used on 3-phase models)	X	X	X	X	X	X	X
KSALA0301410	Low Ambient Cooling Pressure Switch	X	X	X	X	X	X	X
KSALA1001AAA	MotorMaster® Low Ambient Controller	X	X	X	X	X	X	X
KSASF0201AAA	Support Foot Assembly	X	X	X	X	X	X	X
KSASH2301COP	Sound Blanket	X	X	X	X			
KSASH2401COP	Sound Blanket					X	X	X

X= Accessory

Accessory Usage Guideline

Accessory	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F / 12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS*	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles / 3.22 km)
Accumulator	Standard	Standard	Standard
Ball Bearing Fan Motor	Standard	Standard	Standard
Compressor Start Assist Capacitor and Relay†	Yes	Yes	No
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Hard Shutoff TXV	Yes	Yes	No
Isolation Relay	Yes	No	No
Liquid Line Solenoid Valve	No	See Long-Line Application Guideline	No
Motor Master® Control or Low Ambient Switch	Yes	No	No
Support Feet	Recommended	No	Recommended

*. 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.
†. Not used on 3-phase units

Accessory Description and Usage

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® is used.

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. 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.

4. 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.

5. 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.

6. 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 (-18°C) when properly installed and also using wind baffles. Instructions provided in accessory kit.

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).

7. 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 0°F/–17.8°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 commercial applications.

8. Outdoor Air Temperature Sensor

This device enables the thermostat to display the outdoor temperature. This device is also required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for use with compatible Carrier thermostats.

9. Sound Blanket

Wraparound sound reducing cover for the compressor. Reduces the sound level of the compressor.

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 m) apart.

Accessory Description and Usage Continued...

10. Support Feet

Four or five 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. 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 Directory of Certified Product Performance (AHRI Directory).

When a Time-Delay Relay (TDR) is called for in the AHRI Directory, use a 30 second TDR for Micro Channel Indoor units and use a 90 second TDR for Round Tube Plate Fin Indoor units.

12. 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	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
18	208-230-1	253	197	45.1	8.3	0.50	10.9	15
24				64.4	10.3	0.60	13.5	20
30				67.0	12.5	0.70	16.3	25
36				86.0	14.4	1.20	19.2	30
42				123.0	19.0	1.05	24.9	40
48				126.0	22.4	1.40	29.4	50
60				157.0	23.7	1.50	31.1	50
36	208/230-3	253	187	70.0	9.0	1.20	12.5	20
48				120.4	12.8	1.4	17.4	30
60				156.4	16.0	1.50	21.5	35
36	460-3	506	414	39.0	4.1	0.64	5.7	15
48				49.4	6.0	0.73	8.2	15
60				69.0	7.1	0.94	9.8	15
36	575-3	632	518	29.0	3.3	0.52	4.6	15
48				41.0	5.8	0.56	7.8	15
60				47.8	6.4	0.70	8.7	15

*.Permissible limits of the voltage range at which the unit will operate satisfactorily
†.Time-Delay fuse.

FLA—Full Load Amps
LRA—Locked Rotor Amps
MCA—Minimum Circuit Amps
RLA—Rated Load Amps
NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit.
All motors/compressors contain internal overload protection.
Short Circuit Current Rating (SCCR): 5kA rms

Sound Power Level without Sound Shield

UNIT SIZE	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	72	63.9	65.8	66.6	68.3	63.3	59.7	54.6
24	71	66.3	64.7	64.2	64.4	59.2	55.6	54.7
30	70	64.6	64.4	65.7	63.9	60.5	55.6	53.7
36	76	70.6	69.9	68.5	66.0	63.1	59.0	53.2
42	76	70.2	71.3	71.2	72.1	64.9	62.7	59.5
48	76	70.1	72.2	69.7	68.0	62.7	61.7	60.9
60	74	66.6	68.6	69.2	70.8	62.9	60.8	62.7

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

Sound Power Level with Accessory Sound Shield

UNIT SIZE	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	70	64.3	65.9	66.4	67.4	62.1	59.0	53.2
24	68	66.8	64.7	64.1	64.6	60.3	53.9	50.2
30	67	65.3	65.1	65.1	62.4	58.7	53.6	50.8
36	75	70.0	68.9	68.3	65.4	62.0	57.6	50.7
42	74	70.5	72.0	71.2	70.4	63.9	62.1	58.1
48	75	70.7	72.2	69.5	67.3	62.1	60.1	56.1
60	72	68.9	68.1	69.6	69.4	61.0	58.4	58.9

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

Charging Subcooling (TXV-Type Expansion Device)

UNIT SIZE-VOLTAGE	REQUIRED SUBCOOLING °F (°C)
18	6 (3.3)
24	6 (3.3)
30	12 (6.7)
36	10 (5.6)
42	12 (6.7)
48	13 (7.2)
60	7 (3.9)

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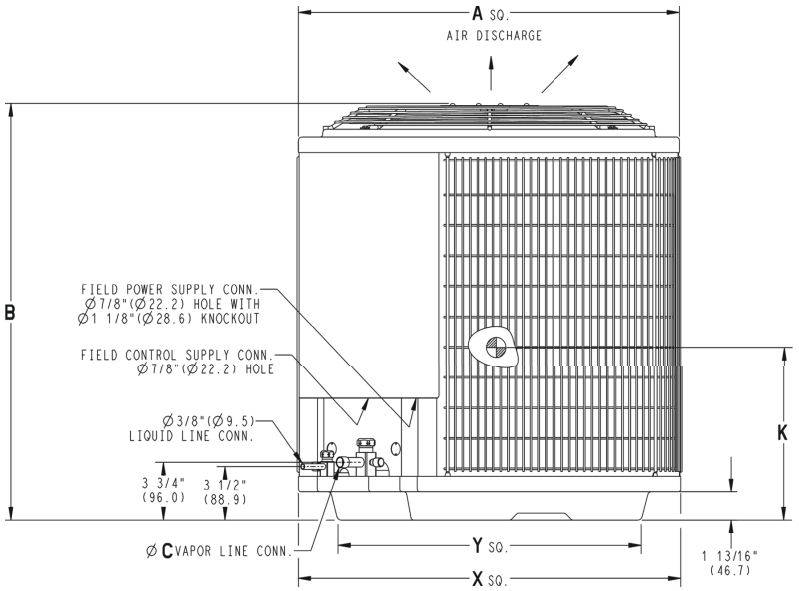
Dimensions

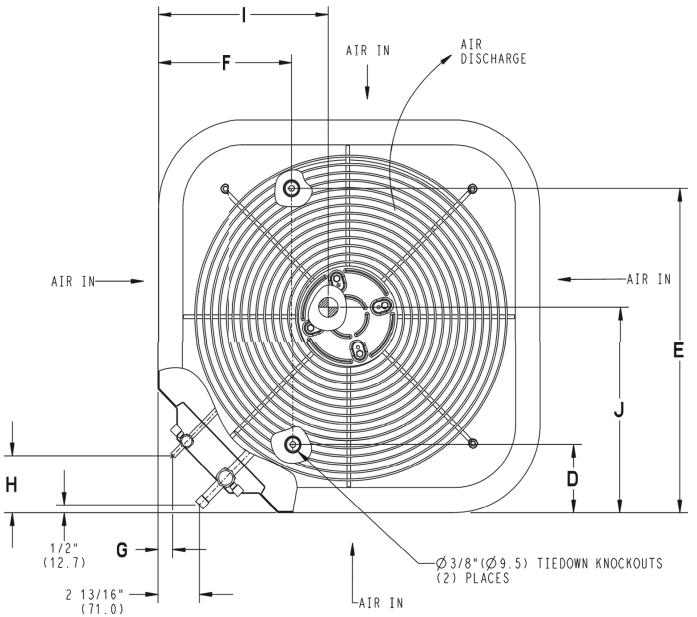
UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
		208/230-1-60	208/230-3-60	460-3-60	575-3-60	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
27SCA518A*0	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	5/8	15.9	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	12 1/2	317.5	11	279.4	11 3/4	298.5	149	67.6	169	76.7	32 3/16	817.9	34 7/16	875.2
27SCA524A*0	0	Y	N	N	N	31 3/16	792.5	35 1/2	901.4	5/8	15.9	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	13	330.2	15 1/8	384.2	16 1/2	419.1	176	79.8	196	88.9	32 3/16	817.9	37 7/8	961.6
27SCA530A*0	0	Y	N	N	N	31 3/16	792.5	38 7/8	987.8	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14	355.6	14 3/4	374.7	15 1/2	393.7	168	76.2	189	85.7	32 3/16	817.9	41 1/4	1048.0
27SCA536A*0	0	Y	Y	Y	Y	31 3/16	792.5	32 1/16	815.1	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	12	304.8	14 1/8	358.8	16 1/4	412.8	173	78.5	193	87.5	32 3/16	817.9	34 7/16	875.2
27SCA542A*0	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	13 1/2	342.9	14 1/4	362.0	15	381.0	204	92.5	224	101.6	32 3/16	817.9	34 7/16	875.2
27SCA548A*0	0	Y	Y	Y	Y	31 3/16	792.5	38 7/8	987.8	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15	381.0	17 1/4	438.2	19 1/2	495.3	232	105.2	253	114.8	32 3/16	817.9	41 1/4	1048.0
27SCA560A*0	0	Y	Y	Y	Y	35	889.0	35 1/2	901.4	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	13	330.2	15 1/2	393.7	16 3/4	425.5	234	106.1	255	115.7	36	914.9	37 7/8	961.6

Y=YES
N=NO

NOTES:

1. CENTER OF GRAVITY .





UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
-	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
18,24,30,36,42,48	31 3/16	792.5	22 15/16	583.2
60	35	889.0	26 3/4	679.7

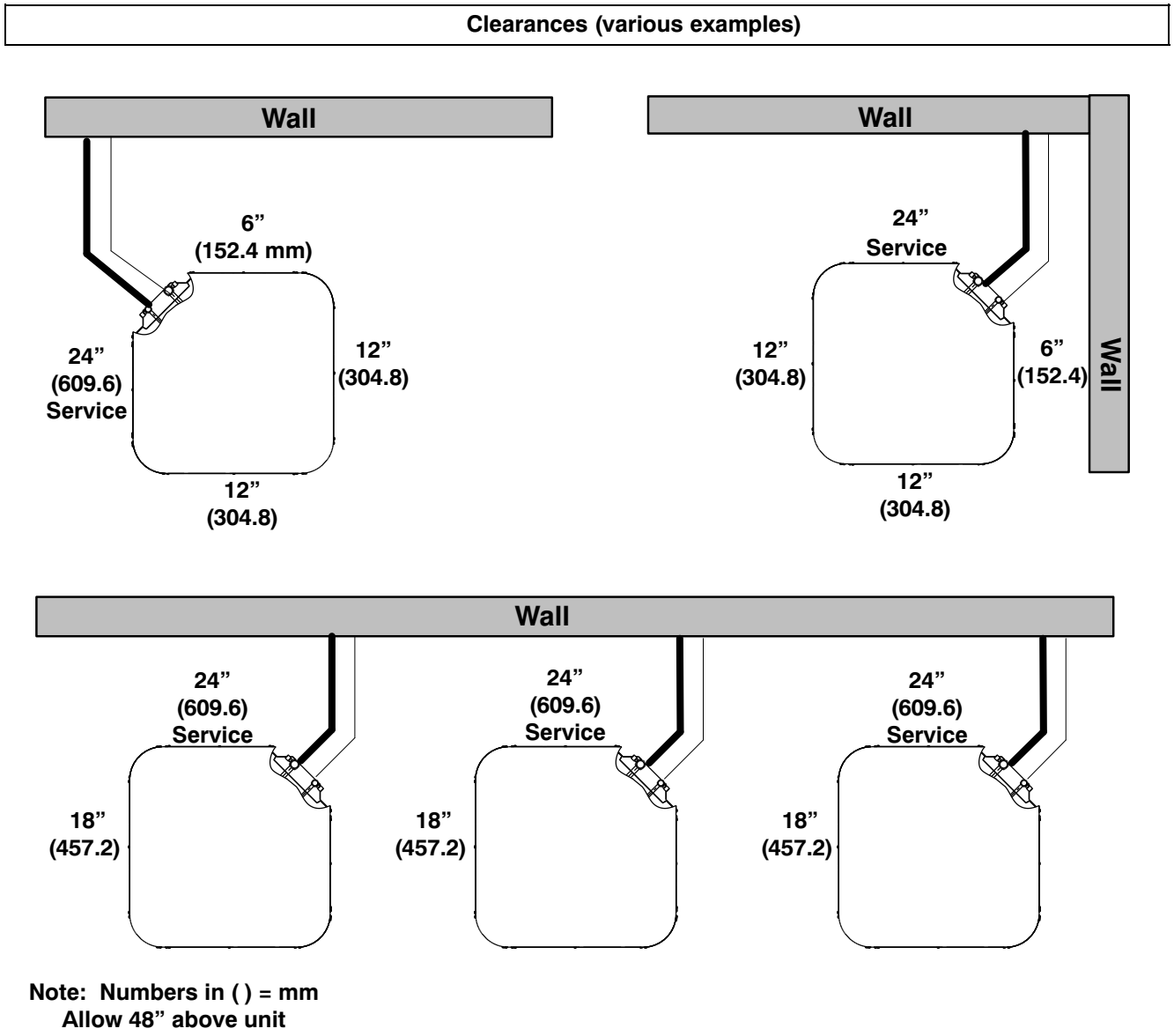
NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD5983-4 (1) REV. B

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Clearances



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.

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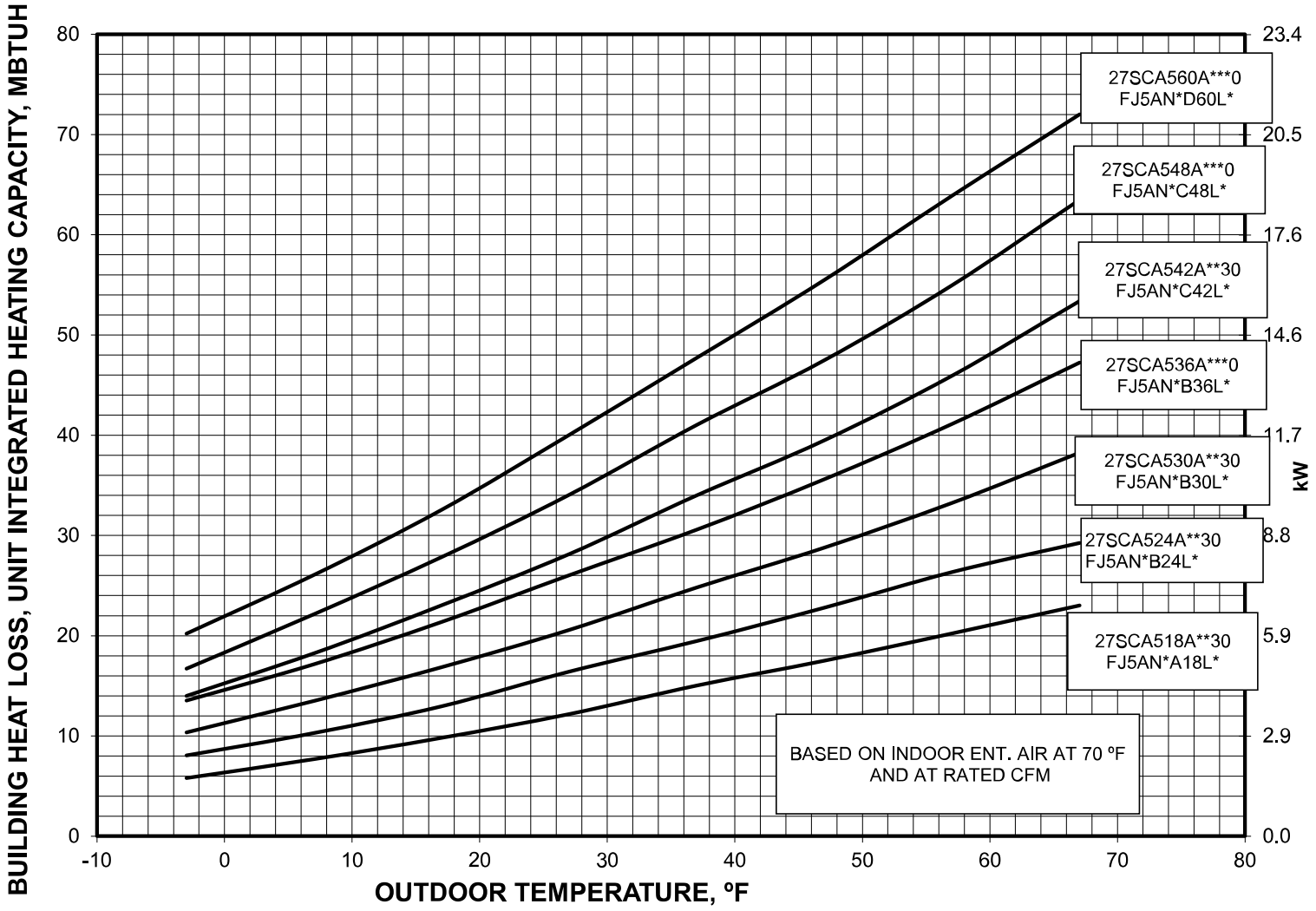
Balance Point Worksheet



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DETAILED COOLING CAPACITIES

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB	75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)		
		Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.
		Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
27SCA518A00* Outdoor Section With FJ5AN*A18L* Indoor Section																			
540	72.0 (22.2)	20.56	10.51	1.16	19.66	10.18	1.31	18.67	9.82	1.47	17.45	9.38	1.64	16.46	9.04	1.84	15.26	8.62	2.06
	67.0 (19.4)	18.72	13.04	1.17	17.91	12.71	1.32	17	12.35	1.48	16.02	11.95	1.65	15.01	11.56	1.85	13.93	11.13	2.07
	63 (17.2)††	17.38	12.54	1.18	16.62	12.21	1.33	15.78	11.85	1.48	14.81	11.41	1.66	13.94	11.07	1.86	12.94	10.64	2.08
	62.0 (16.7)	17.16	15.51	1.18	16.43	15.16	1.33	15.64	14.77	1.48	14.82	14.82	1.66	14.02	14.02	1.85	13.18	13.18	2.07
	57.0 (13.9)	16.76	16.76	1.18	16.16	16.16	1.33	15.49	15.49	1.49	14.78	14.78	1.66	14	14	1.85	13.16	13.16	2.07
600	72.0 (22.2)	20.83	10.93	1.17	19.9	10.59	1.32	18.88	10.23	1.48	17.78	9.85	1.66	16.61	9.45	1.85	15.36	9.01	2.08
	67.0 (19.4)	18.99	13.73	1.19	18.15	13.39	1.33	17.22	13.02	1.49	16.22	12.63	1.67	15.18	12.21	1.86	14.07	11.78	2.09
	63 (17.2)††	17.65	13.18	1.19	16.86	12.84	1.34	16	12.47	1.5	14.96	12.03	1.67	14.1	11.67	1.87	13.08	11.24	2.09
	62.0 (16.7)	17.5	16.41	1.19	16.76	16.03	1.34	15.99	15.99	1.5	15.13	15.13	1.67	14.41	14.41	1.87	13.53	13.53	2.09
	57.0 (13.9)	17.3	17.3	1.2	16.67	16.67	1.34	15.97	15.97	1.5	15.21	15.21	1.67	14.39	14.39	1.87	13.51	13.51	2.09
675	72.0 (22.2)	21.1	11.43	1.19	20.14	11.09	1.34	19.08	10.73	1.5	17.95	10.33	1.68	16.75	9.93	1.87	15.49	9.5	2.1
	67.0 (19.4)	19.26	14.55	1.2	18.39	14.21	1.35	17.43	13.83	1.51	16.41	13.44	1.69	15.33	13.01	1.88	14.21	12.55	2.1
	63 (17.2)††	17.91	13.95	1.21	17.1	13.6	1.36	16.21	13.22	1.52	15.13	12.77	1.69	14.22	12.38	1.89	13.22	11.94	2.11
	62.0 (16.7)	17.91	17.91	1.21	17.24	17.24	1.36	16.49	16.49	1.52	15.68	15.68	1.69	14.77	14.77	1.88	13.88	13.88	2.11
	57.0 (13.9)	17.88	17.88	1.21	17.21	17.21	1.36	16.47	16.47	1.52	15.66	15.66	1.69	14.78	14.78	1.88	13.87	13.87	2.11
27SCA524A00* Outdoor Section With FJ5AN*B24L*Indoor Section																			
665	72.0 (22.2)	26.92	13.97	1.47	25.78	13.53	1.65	24.57	13.07	1.85	23.28	12.59	2.09	21.88	12.06	2.35	20.37	11.5	2.64
	67.0 (19.4)	24.56	17.17	1.48	23.51	16.72	1.66	22.4	16.25	1.87	21.2	15.74	2.1	19.95	15.23	2.36	18.57	14.66	2.66
	63 (17.2)††	22.82	16.55	1.49	21.83	16.09	1.67	20.8	15.62	1.87	19.7	15.13	2.11	18.52	14.6	2.37	17.26	14.04	2.67
	62.0 (16.7)	22.46	20.29	1.49	21.5	19.83	1.67	20.51	19.34	1.88	19.46	18.82	2.11	18.35	18.23	2.37	17.24	17.24	2.67
	57.0 (13.9)	21.6	21.6	1.5	20.84	20.84	1.67	20.03	20.03	1.88	19.17	19.17	2.11	18.24	18.24	2.37	17.21	17.21	2.67
800	72.0 (22.2)	27.58	14.93	1.5	26.37	14.48	1.68	25.1	14.01	1.89	23.74	13.51	2.12	22.27	12.98	2.38	20.68	12.41	2.67
	67.0 (19.4)	25.21	18.75	1.51	24.1	18.29	1.69	22.94	17.81	1.9	21.69	17.31	2.13	20.37	16.74	2.39	18.95	16.16	2.69
	63 (17.2)††	23.46	18.03	1.52	22.42	17.56	1.7	21.33	17.07	1.91	20.17	16.56	2.14	18.93	16.02	2.4	17.6	15.42	2.7
	62.0 (16.7)	23.23	22.42	1.52	22.25	21.9	1.7	21.3	21.17	1.91	20.27	20.27	2.14	19.23	19.23	2.4	18.1	18.1	2.69
	57.0 (13.9)	22.91	22.91	1.52	22.07	22.07	1.7	21.19	21.19	1.91	20.24	20.24	2.14	19.21	19.21	2.4	18.06	18.06	2.69
900	72.0 (22.2)	27.91	15.6	1.52	26.68	15.15	1.7	25.36	14.67	1.91	23.97	14.17	2.14	22.46	13.63	2.4	20.82	13.06	2.7
	67.0 (19.4)	25.56	19.86	1.54	24.42	19.39	1.72	23.22	18.9	1.92	21.94	18.39	2.15	20.58	17.82	2.42	19.11	17.22	2.71
	63 (17.2)††	23.81	19.06	1.55	22.74	18.59	1.73	21.61	18.09	1.93	20.41	17.56	2.16	19.16	17	2.43	17.79	16.39	2.72
	62.0 (16.7)	23.75	23.75	1.55	22.82	22.82	1.72	21.88	21.88	1.93	20.87	20.87	2.16	19.78	19.78	2.42	18.58	18.58	2.72
	57.0 (13.9)	23.67	23.67	1.55	22.79	22.79	1.72	21.85	21.85	1.93	20.85	20.85	2.16	19.76	19.76	2.42	18.56	18.56	2.72

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DETAILED COOLING CAPACITIES (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB	75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (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‡	
27SCA530A00* Outdoor Section With FJ5AN*B30L*Indoor Section																			
915	72.0 (22.2)	34.58	18.36	1.89	33	17.76	2.13	31.31	17.13	2.39	29.54	16.47	2.68	27.68	15.79	3.01	25.76	15.1	3.4
	67.0 (19.4)	31.39	22.78	1.88	29.94	22.17	2.11	28.4	21.53	2.37	26.78	20.87	2.65	25.09	20.18	2.98	23.34	19.47	3.36
	63 (17.2)††	29.09	21.88	1.87	27.74	21.27	2.1	26.29	20.62	2.35	24.78	19.95	2.63	23.2	19.24	2.96	21.56	18.54	3.33
	62.0 (16.7)	28.7	27.11	1.87	27.4	26.47	2.1	26.05	25.76	2.35	24.68	24.68	2.63	23.4	23.4	2.96	21.89	21.89	3.34
	57.0 (13.9)	28.06	28.06	1.87	26.99	26.99	2.1	25.85	25.85	2.35	24.64	24.64	2.63	23.36	23.36	2.96	22.01	22.01	3.34
1000	72.0 (22.2)	34.98	18.98	1.92	33.35	18.37	2.16	31.62	17.73	2.42	29.83	17.08	2.7	27.93	16.4	3.04	25.94	15.69	3.43
	67.0 (19.4)	31.78	23.8	1.91	30.3	23.19	2.14	28.72	22.54	2.39	27.06	21.85	2.68	25.35	21.13	3	23.55	20.44	3.39
	63 (17.2)††	29.47	22.83	1.9	28.08	22.21	2.13	26.6	21.55	2.38	25.05	20.87	2.66	23.44	20.16	2.98	21.78	19.43	3.36
	62.0 (16.7)	29.19	28.46	1.9	27.89	27.75	2.13	26.7	26.54	2.38	25.32	25.32	2.66	23.98	23.98	2.99	22.57	22.57	3.38
	57.0 (13.9)	28.86	28.86	1.9	27.74	27.74	2.13	26.55	26.55	2.38	25.28	25.28	2.66	23.95	23.95	2.99	22.54	22.54	3.38
1125	72.0 (22.2)	35.44	19.85	1.96	33.76	19.24	2.2	31.98	18.6	2.46	30.14	17.94	2.75	28.19	17.25	3.08	26.15	16.56	3.47
	67.0 (19.4)	32.24	25.25	1.95	30.71	24.62	2.18	29.09	23.96	2.43	27.39	23.27	2.72	25.63	22.55	3.05	23.81	21.79	3.43
	63 (17.2)††	29.92	24.17	1.94	28.48	23.53	2.17	26.96	22.86	2.42	25.37	22.17	2.7	23.73	21.44	3.03	22.03	20.67	3.41
	62.0 (16.7)	29.99	29.87	1.94	28.7	28.7	2.17	27.44	27.44	2.42	26.1	26.1	2.71	24.7	24.7	3.04	23.21	23.21	3.43
	57.0 (13.9)	29.84	29.84	1.94	28.66	28.66	2.17	27.4	27.4	2.42	26.07	26.07	2.71	24.66	24.66	3.04	23.16	23.16	3.42
27SCA536A00* Outdoor Section With FJ5AN*B30L*Indoor Section																			
1050	72.0 (22.2)	42.54	21.74	2.43	40.63	21.02	2.66	38.54	20.24	2.91	36.29	19.42	3.21	33.89	18.55	3.55	31.34	17.65	3.95
	67.0 (19.4)	38.6	26.83	2.41	36.9	26.13	2.65	35	25.34	2.92	32.95	24.51	3.22	30.77	23.63	3.57	28.49	22.72	3.98
	63 (17.2)††	35.78	25.8	2.4	34.19	25.09	2.64	32.42	24.3	2.91	30.52	23.47	3.22	28.48	22.61	3.58	26.38	21.68	4
	62.0 (16.7)	35.27	31.84	2.4	33.74	31.1	2.64	32.06	30.28	2.91	30.27	29.35	3.22	28.48	28.48	3.58	26.75	26.75	3.98
	57.0 (13.9)	34.19	34.19	2.39	32.96	32.96	2.64	31.58	31.58	2.91	30.07	30.07	3.22	28.44	28.44	3.58	26.71	26.71	3.99
1200	72.0 (22.2)	43.29	22.8	2.48	41.3	22.07	2.71	39.11	21.28	2.96	36.78	20.44	3.25	34.24	19.52	3.59	31.66	18.65	3.99
	67.0 (19.4)	39.32	28.59	2.47	37.55	27.87	2.71	35.57	27.07	2.97	33.44	26.21	3.27	31.19	25.31	3.62	28.84	24.37	4.03
	63 (17.2)††	36.47	27.43	2.45	34.81	26.7	2.7	32.97	25.9	2.97	30.99	25.04	3.27	28.91	24.14	3.63	26.72	23.2	4.05
	62.0 (16.7)	36.12	34.17	2.45	34.56	33.35	2.7	32.98	32.1	2.97	31.23	31.23	3.27	29.49	29.49	3.63	27.63	27.63	4.04
	57.0 (13.9)	35.61	35.61	2.45	34.29	34.29	2.7	32.8	32.8	2.97	31.18	31.18	3.27	29.44	29.44	3.62	27.59	27.59	4.04
1350	72.0 (22.2)	43.84	23.81	2.54	41.78	23.07	2.76	39.53	22.27	3.02	37.12	21.42	3.3	34.56	20.53	3.64	31.85	19.6	4.04
	67.0 (19.4)	39.87	30.27	2.52	38.02	29.52	2.76	36	28.71	3.02	33.81	27.83	3.32	31.49	26.9	3.66	29.11	25.93	4.07
	63 (17.2)††	37	28.98	2.51	35.27	28.23	2.75	33.38	27.41	3.02	31.35	26.54	3.32	29.21	25.49	3.67	27	24.62	4.09
	62.0 (16.7)	36.91	36.91	2.51	35.43	35.43	2.75	33.86	33.86	3.02	32.15	32.15	3.32	30.3	30.3	3.67	28.32	28.32	4.08
	57.0 (13.9)	36.79	36.79	2.51	35.38	35.38	2.75	33.82	33.82	3.02	32.11	32.11	3.32	30.27	30.27	3.67	28.31	28.31	4.08

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DETAILED COOLING CAPACITIES (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB	75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (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‡	
27SCA542A00* Outdoor Section With FJ5AN*C42L* Indoor Section																			
1240	72.0 (22.2)	49.41	25.83	2.78	47.34	25.04	3.09	45.14	24.21	3.44	42.71	23.31	3.84	40.15	22.37	4.3	37.39	21.37	4.83
	67.0 (19.4)	44.91	31.96	2.76	43.04	31.17	3.07	41	30.32	3.42	38.8	29.41	3.82	36.47	28.46	4.28	33.98	27.45	4.81
	63 (17.2)††	41.63	30.71	2.74	39.89	29.93	3.05	38	29.08	3.4	35.95	28.17	3.8	33.77	27.21	4.26	31.45	26.19	4.79
	62.0 (16.7)	41.08	37.94	2.74	39.42	37.12	3.05	37.62	36.21	3.4	35.72	35.01	3.8	33.78	33.78	4.26	31.87	31.87	4.79
	57.0 (13.9)	39.95	39.95	2.74	38.6	38.6	3.05	37.11	37.11	3.4	35.49	35.49	3.8	33.72	33.72	4.26	31.82	31.82	4.79
1400	72.0 (22.2)	50.19	26.99	2.83	48.05	26.19	3.14	45.75	25.34	3.49	43.26	24.44	3.89	40.6	23.48	4.35	37.75	22.47	4.88
	67.0 (19.4)	45.66	33.86	2.81	43.72	33.05	3.12	41.61	32.19	3.47	39.35	31.26	3.87	36.94	30.28	4.33	34.38	29.24	4.86
	63 (17.2)††	42.36	32.48	2.79	40.56	31.68	3.1	38.59	30.81	3.45	36.48	29.88	3.85	34.24	28.9	4.31	31.86	27.85	4.84
	62.0 (16.7)	42	40.44	2.79	40.31	39.53	3.1	38.59	38.26	3.45	36.8	36.63	3.85	34.87	34.87	4.32	32.86	32.86	4.85
	57.0 (13.9)	41.45	41.45	2.79	40.01	40.01	3.1	38.42	38.42	3.45	36.69	36.69	3.85	34.83	34.83	4.32	32.81	32.81	4.85
1575	72.0 (22.2)	50.83	28.19	2.88	48.62	27.38	3.19	46.25	26.53	3.54	43.66	25.6	3.94	40.94	24.64	4.4	38.03	23.62	4.93
	67.0 (19.4)	46.3	35.84	2.86	44.29	35.02	3.17	42.12	34.14	3.52	39.8	33.19	3.92	37.33	32.18	4.38	34.72	31.09	4.91
	63 (17.2)††	42.98	34.32	2.85	41.12	33.5	3.16	39.1	32.61	3.51	36.93	31.66	3.91	34.63	30.64	4.37	32.21	29.55	4.9
	62.0 (16.7)	43.03	42.54	2.85	41.35	41.35	3.16	39.66	39.66	3.51	37.83	37.83	3.91	35.84	35.84	4.37	33.7	33.7	4.9
	57.0 (13.9)	42.82	42.82	2.85	41.29	41.29	3.16	39.61	39.61	3.51	37.78	37.78	3.91	35.82	35.82	4.37	33.69	33.69	4.9
27SCA548A00* Outdoor Section With FJ5AN*C48L*Indoor Section																			
1250	72.0 (22.2)	56.66	28.52	3.15	54.39	27.64	3.52	51.91	26.69	3.95	49.15	25.65	4.43	46.05	24.49	4.98	42.62	23.24	5.61
	67.0 (19.4)	51.3	34.6	3.14	49.27	33.73	3.5	47	32.78	3.92	44.48	31.73	4.4	41.69	30.58	4.94	38.53	29.3	5.57
	63 (17.2)††	47.5	33.32	3.13	45.58	32.44	3.48	43.48	31.48	3.9	41.14	30.44	4.37	38.53	29.28	4.92	35.61	28	5.54
	62.0 (16.7)	46.66	40.62	3.13	44.79	39.73	3.48	42.76	38.76	3.89	40.51	37.68	4.37	38.02	36.46	4.92	35.31	35.31	5.54
	57.0 (13.9)	44.41	44.41	3.12	42.96	42.96	3.47	41.36	41.36	3.88	39.57	39.57	4.36	37.55	37.55	4.91	35.24	35.24	5.54
1600	72.0 (22.2)	58.89	31.23	3.24	56.4	30.32	3.62	53.69	29.33	4.05	50.71	28.26	4.54	47.38	27.07	5.1	43.69	25.78	5.72
	67.0 (19.4)	53.41	38.98	3.23	51.15	38.06	3.6	48.72	37.07	4.02	46	35.96	4.51	43	34.78	5.05	39.66	33.45	5.68
	63 (17.2)††	49.49	37.39	3.23	47.39	36.46	3.58	45.11	35.47	4	42.59	34.38	4.48	39.8	33.17	5.02	36.69	31.84	5.65
	62.0 (16.7)	48.96	46.5	3.23	46.99	45.48	3.58	45.02	43.97	4	42.79	42.79	4.48	40.49	40.49	5.03	37.87	37.87	5.66
	57.0 (13.9)	48.27	48.27	3.22	46.6	46.6	3.58	44.77	44.77	4	42.73	42.73	4.48	40.42	40.42	5.03	37.82	37.82	5.66
1800	72.0 (22.2)	59.74	32.68	3.3	57.16	31.75	3.68	54.36	30.75	4.11	51.26	29.65	4.6	47.81	28.43	5.15	44.06	27.15	5.78
	67.0 (19.4)	54.23	41.34	3.29	51.9	40.4	3.66	49.39	39.39	4.08	46.6	38.27	4.56	43.52	37.04	5.11	40.11	35.66	5.74
	63 (17.2)††	50.27	39.57	3.28	48.12	38.64	3.64	45.77	37.61	4.06	43.18	36.49	4.54	40.3	35.24	5.08	37.13	33.85	5.71
	62.0 (16.7)	50.1	50.1	3.28	48.27	48.27	3.64	46.33	46.33	4.06	44.16	44.16	4.54	41.72	41.72	5.09	38.97	38.97	5.73
	57.0 (13.9)	49.95	49.95	3.28	48.2	48.2	3.64	46.26	46.26	4.06	44.1	44.1	4.54	41.66	41.66	5.1	38.91	38.91	5.73

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

DETAILED COOLING CAPACITIES (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB	75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (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‡	
27SCA560A00* Outdoor Section With FJ5AN*D60L*Indoor Section																			
1775	72.0 (22.2)	69.13	35.84	4.07	66.01	34.69	4.53	62.68	33.48	5.05	58.98	32.15	5.64	55.14	30.78	6.31	50.84	29.3	7.06
	67.0 (19.4)	63.31	44.81	4.03	60.51	43.67	4.49	57.5	42.45	5	54.24	41.14	5.59	50.69	39.73	6.25	46.83	38.21	7.01
	63 (17.2)††	58.99	43.17	4.01	56.42	42.04	4.46	53.64	40.83	4.97	50.62	39.52	5.55	47.35	38.12	6.22	43.77	36.6	6.98
	62.0 (16.7)	58.15	53.51	4.01	55.69	52.32	4.45	53.05	51.01	4.96	50.43	49.01	5.55	47.56	47.56	6.22	44.54	44.54	6.98
	57.0 (13.9)	56.88	56.88	4	54.86	54.86	4.45	52.64	52.64	4.96	50.19	50.19	5.55	47.49	47.49	6.22	44.48	44.48	6.98
2000	72.0 (22.2)	70.03	37.44	4.15	66.79	36.27	4.61	63.34	35.04	5.13	59.6	33.72	5.72	55.57	32.31	6.39	51.18	30.8	7.14
	67.0 (19.4)	64.23	47.48	4.11	61.33	46.31	4.56	58.21	45.07	5.08	54.83	43.73	5.67	51.19	42.3	6.33	47.24	40.74	7.09
	63 (17.2)††	59.92	45.66	4.09	57.25	44.5	4.54	54.37	43.27	5.05	51.26	41.94	5.63	47.89	40.5	6.3	44.22	38.93	7.05
	62.0 (16.7)	59.36	57.03	4.09	56.89	56.89	4.53	54.43	54.43	5.05	51.79	51.79	5.64	48.93	48.93	6.31	45.73	45.73	7.07
	57.0 (13.9)	58.9	58.9	4.08	56.73	56.73	4.53	54.36	54.36	5.05	51.75	51.75	5.64	48.87	48.87	6.31	45.68	45.68	7.07
2250	72.0 (22.2)	70.76	39.14	4.23	67.42	37.96	4.7	63.84	36.71	5.22	60	35.37	5.81	55.87	33.96	6.48	51.32	32.43	7.23
	67.0 (19.4)	64.99	50.33	4.2	62	49.14	4.65	58.79	47.87	5.17	55.33	46.5	5.76	51.6	45.01	6.42	47.57	43.38	7.18
	63 (17.2)††	60.7	48.31	4.17	57.95	47.13	4.62	54.98	45.86	5.13	51.79	44.49	5.72	48.34	43.01	6.38	44.62	41.36	7.14
	62.0 (16.7)	61.03	59.18	4.18	58.5	58.5	4.63	55.97	55.97	5.14	53.2	53.2	5.73	50.14	50.14	6.4	46.76	46.76	7.17
	57.0 (13.9)	60.74	60.74	4.17	58.42	58.42	4.62	55.9	55.9	5.14	53.14	53.14	5.73	50.13	50.13	6.41	46.71	46.71	7.17

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2020. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

‡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).

**Total 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 Bulb1

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
		-3.0 (-19.4)			7.0 (-13.9)			17.0 (-8.3)			27.0 (-2.8)			37.0 (2.8)			47.0 (8.3)			57.0 (13.9)			67.0 (19.4)		
EDB	CFM	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†	Capacity MBtuh		Total Sys. kW†
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
27SCA518A00* Outdoor Section With FJ5AN*A18L*Indoor Section																									
65.0 (18.3)	540	6.11	5.62	3.72	7.97	7.33	3.85	10.10	9.21	4.01	11.85	10.52	4.15	15.23	13.86	4.37	17.74	17.74	4.54	20.52	20.52	4.73	23.29	23.29	4.86
	600	6.18	5.69	3.73	8.07	7.42	3.86	10.22	9.32	4.00	12.63	11.22	4.16	15.36	13.97	4.33	17.92	17.92	4.48	20.75	20.75	4.63	23.46	23.46	4.75
	675	6.28	5.78	3.77	8.18	7.52	3.89	10.34	9.43	4.02	12.78	11.35	4.16	15.50	14.10	4.30	18.09	18.09	4.43	20.87	20.87	4.55	23.61	23.61	4.66
70.0 (21.1)	540	5.80	5.34	3.85	7.69	7.06	4.01	9.81	8.95	4.18	12.17	10.81	4.37	15.02	13.66	4.58	17.50	17.50	4.76	20.21	20.21	4.95	23.00	23.00	5.10
	600	5.89	5.42	3.88	7.79	7.16	4.02	9.93	9.06	4.18	12.33	10.95	4.35	15.15	13.79	4.54	17.67	17.67	4.69	20.44	20.44	4.87	23.18	23.18	4.98
	675	5.98	5.50	3.92	7.90	7.26	4.05	10.06	9.18	4.19	12.47	11.07	4.34	15.29	13.92	4.51	17.84	17.84	4.64	20.64	20.64	4.78	23.33	23.33	4.89
75.0 (23.9)	540	5.49	5.05	4.00	7.42	6.82	4.18	9.51	8.67	4.36	11.90	10.57	4.56	14.77	13.44	4.79	17.25	17.25	4.98	19.92	19.92	5.18	22.69	22.69	5.34
	600	5.57	5.13	4.03	7.48	6.88	4.19	9.63	8.78	4.36	12.01	10.67	4.54	14.92	13.58	4.75	17.42	17.42	4.91	20.13	20.13	5.10	22.88	22.88	5.22
	675	5.67	5.21	4.07	7.59	6.98	4.21	9.76	8.90	4.37	12.17	10.81	4.54	15.07	13.72	4.72	17.59	17.59	4.86	20.35	20.35	5.02	23.04	23.04	5.12
27SCA524A00* Outdoor Section With FJ5AN*B24L* Indoor Section																									
65.0 (18.3)	665	8.52	7.84	4.88	10.71	9.84	5.00	13.36	12.18	5.18	16.70	14.83	5.46	19.74	17.96	5.69	23.10	23.10	5.97	26.61	26.61	6.23	29.51	29.51	6.45
	800	8.76	8.06	4.94	10.98	10.09	5.03	13.67	12.46	5.17	16.99	15.09	5.40	20.06	18.25	5.57	23.51	23.51	5.80	26.78	26.78	5.98	29.62	29.62	6.16
	900	8.92	8.20	4.99	11.15	10.25	5.07	13.86	12.64	5.19	17.14	15.23	5.39	20.26	18.43	5.54	23.75	23.75	5.74	26.81	26.81	5.88	29.62	29.62	6.04
70.0 (21.1)	665	8.08	7.44	5.05	10.31	9.47	5.20	12.98	11.84	5.40	16.43	14.59	5.72	19.48	17.73	5.97	22.80	22.80	6.26	26.34	26.34	6.56	29.24	29.24	6.78
	800	8.31	7.64	5.11	10.57	9.71	5.23	13.28	12.11	5.39	16.72	14.85	5.65	19.79	18.01	5.85	23.19	23.19	6.09	26.55	26.55	6.29	29.37	29.37	6.47
	900	8.46	7.78	5.16	10.73	9.86	5.27	13.47	12.28	5.41	16.89	15.00	5.64	19.98	18.18	5.81	23.43	23.43	6.03	26.61	26.61	6.18	29.39	29.39	6.35
75.0 (23.9)	665	7.60	6.99	5.23	9.90	9.10	5.40	12.61	11.49	5.63	15.71	13.96	5.92	19.24	17.50	6.27	22.50	22.50	6.57	26.06	26.06	6.89	28.96	28.96	7.11
	800	7.85	7.23	5.29	10.15	9.33	5.44	12.90	11.76	5.63	16.12	14.32	5.87	19.54	17.78	6.14	22.89	22.89	6.39	26.31	26.31	6.61	29.10	29.10	6.80
	900	8.00	7.36	5.35	10.31	9.47	5.48	13.07	11.92	5.65	16.44	14.60	5.88	19.71	17.94	6.10	23.12	23.12	6.32	26.39	26.39	6.50	29.13	29.13	6.67
27SCA530A00* Outdoor Section With FJ5AN*B30L*Indoor Section																									
65.0 (18.3)	915	10.87	10.00	5.77	13.99	12.85	5.93	17.36	15.83	6.12	21.52	19.12	6.40	25.19	22.92	6.62	29.23	29.23	6.90	33.77	33.77	7.26	38.80	38.80	7.64
	1000	10.98	10.10	5.82	14.14	13.00	5.96	17.54	15.99	6.13	21.71	19.28	6.38	25.39	23.10	6.58	29.49	29.49	6.84	34.10	34.10	7.17	38.98	38.98	7.48
	1125	11.18	10.28	5.89	14.34	13.18	6.02	17.77	16.21	6.16	21.93	19.48	6.39	25.64	23.33	6.56	29.79	29.79	6.79	34.50	34.50	7.10	39.10	39.10	7.35
70.0 (21.1)	915	10.35	9.52	6.01	13.50	12.41	6.18	16.87	15.38	6.38	20.58	18.28	6.62	24.82	22.58	6.94	28.80	28.80	7.24	33.26	33.26	7.61	38.28	38.28	8.02
	1000	10.52	9.68	6.05	13.66	12.55	6.21	17.05	15.55	6.39	20.82	18.50	6.62	25.02	22.76	6.90	29.05	29.05	7.17	33.58	33.58	7.51	38.50	38.50	7.86
	1125	10.69	9.84	6.12	13.86	12.74	6.27	17.29	15.76	6.43	21.16	18.79	6.64	25.27	22.99	6.88	29.36	29.36	7.12	33.96	33.96	7.44	38.66	38.66	7.71
75.0 (23.9)	915	9.84	9.05	6.24	13.00	11.95	6.43	16.36	14.91	6.65	20.04	17.80	6.91	24.45	22.25	7.28	28.37	28.37	7.58	32.79	32.79	7.98	37.75	37.75	8.42
	1000	9.96	9.17	6.29	13.16	12.09	6.47	16.54	15.08	6.67	20.26	18.00	6.90	24.65	22.43	7.23	28.61	28.61	7.51	33.08	33.08	7.88	38.00	38.00	8.25
	1125	10.17	9.36	6.36	13.35	12.27	6.52	16.78	15.30	6.70	20.54	18.24	6.92	24.89	22.65	7.21	28.92	28.92	7.46	33.44	33.44	7.79	38.19	38.19	8.09
27SCA536A00* Outdoor Section With FJ5AN*B36L*Indoor Section																									
65.0 (18.3)	1050	14.05	12.93	7.41	17.66	16.22	7.60	22.24	20.28	7.94	26.39	23.44	8.26	31.03	28.24	8.63	36.16	36.16	9.07	41.82	41.82	9.56	47.97	47.97	9.97
	1200	14.30	13.15	7.51	17.93	16.48	7.66	22.51	20.53	7.96	26.69	23.71	8.24	31.41	28.58	8.58	36.64	36.64	8.98	42.46	42.46	9.45	48.35	48.35	9.79
	1350	14.52	13.36	7.61	18.18	16.70	7.74	22.75	20.74	8.01	26.96	23.94	8.26	31.73	28.88	8.57	37.05	37.05	8.95	42.96	42.96	9.40	48.53	48.53	9.70
70.0 (21.1)	1050	13.52	12.43	7.67	17.15	15.76	7.89	21.36	19.48	8.22	26.02	23.11	8.63	30.57	27.82	9.02	35.60	35.60	9.47	41.11	41.11	9.96	47.23	47.23	10.41
	1200	13.77	12.67	7.76	17.43	16.02	7.96	21.80	19.88	8.26	26.32	23.38	8.61	30.95	28.16	8.97	36.08	36.08	9.37	41.73	41.73	9.83	47.70	47.70	10.19
	1350	13.99	12.87	7.87	17.68	16.25	8.04	22.39	20.41	8.36	26.59	23.61	8.63	31.27	28.46	8.96	36.48	36.48	9.34	42.24	42.24	9.79	47.92	47.92	10.09
75.0 (23.9)	1050	12.93	11.90	7.93	16.60	15.25	8.20	20.77	18.94	8.56	25.64	22.77	9.03	30.11	27.40	9.44	35.04	35.04	9.89	40.45	40.45	10.38	46.44	46.44	10.88
	1200	13.18	12.13	8.02	16.88	15.51	8.27	21.11	19.24	8.58	25.94	23.04	9.00	30.48	27.74	9.37	35.51	35.51	9.78	41.03	41.03	10.24	47.01	47.01	10.62
	1350	13.41	12.34	8.13	17.13	15.75	8.35	21.40	19.51	8.64	26.20	23.27	9.02	30.80	28.03	9.36	35.90	35.90	9.74	41.51	41.51	10.19	47.29	47.29	10.50

HEAT PUMP HEATING PERFORMANCE (Continued)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
		-3.0 (-19.4)			7.0 (-13.9)			17.0 (-8.3)			27.0 (-2.8)			37.0 (2.8)			47.0 (8.3)			57.0 (13.9)			67.0 (19.4)		
EDB	CFM	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†	Capacity MBtuh		Total Sys. kW†
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
27SCA542A00* Outdoor Section With FJ5AN*C42L*Indoor Section																									
65.0 (18.3)	1240	14.60	13.44	8.15	18.83	17.31	8.49	23.59	21.50	8.87	28.72	25.51	9.26	34.41	31.32	9.71	40.01	40.01	10.12	46.57	46.57	10.64	54.10	54.10	11.30
	1400	14.83	13.64	8.21	19.08	17.53	8.53	23.85	21.75	8.87	29.10	25.85	9.22	34.74	31.61	9.62	40.44	40.44	9.98	47.13	47.13	10.46	54.64	54.64	10.97
	1575	15.05	13.85	8.30	19.32	17.76	8.59	24.11	21.98	8.90	29.42	26.13	9.23	35.06	31.90	9.58	40.84	40.84	9.91	47.64	47.64	10.35	55.05	55.05	10.77
70.0 (21.1)	1240	14.00	12.88	8.54	18.26	16.78	8.92	23.04	21.01	9.31	28.15	25.00	9.71	34.01	30.95	10.21	39.50	39.50	10.62	45.93	45.93	11.15	53.38	53.38	11.86
	1400	14.23	13.09	8.61	18.51	17.01	8.95	23.32	21.27	9.31	28.48	25.30	9.67	34.33	31.24	10.11	39.92	39.92	10.48	46.47	46.47	10.96	53.95	53.95	11.53
	1575	14.46	13.30	8.70	18.77	17.24	9.01	23.59	21.51	9.34	28.80	25.58	9.66	34.64	31.52	10.07	40.31	40.31	10.40	46.98	46.98	10.84	54.41	54.41	11.30
75.0 (23.9)	1240	13.37	12.30	8.97	17.68	16.24	9.36	22.39	20.41	9.76	27.57	24.49	10.18	33.60	30.58	10.73	38.99	38.99	11.15	45.29	45.29	11.69	52.62	52.62	12.43
	1400	13.60	12.51	9.04	17.94	16.49	9.40	22.67	20.67	9.76	27.90	24.78	10.14	33.93	30.87	10.63	39.39	39.39	11.00	45.82	45.82	11.49	53.25	53.25	12.12
	1575	13.83	12.72	9.14	18.19	16.71	9.46	22.97	20.94	9.79	28.20	25.04	10.13	34.22	31.14	10.58	39.78	39.78	10.91	46.32	46.32	11.36	53.74	53.74	11.86
27SCA548A00* Outdoor Section With FJ5AN*C48L*Indoor Section																									
65.0 (18.3)	1250	17.68	16.27	9.65	22.95	21.09	10.11	28.59	26.07	10.57	34.91	31.00	11.08	41.53	37.79	11.64	48.12	48.12	12.17	55.75	55.75	12.87	64.50	64.50	13.78
	1600	18.33	16.86	9.76	23.68	21.76	10.15	29.41	26.82	10.52	36.30	32.24	11.00	42.36	38.55	11.34	49.20	49.20	11.74	57.22	57.22	12.27	66.50	66.50	12.99
	1800	18.63	17.14	9.86	24.01	22.06	10.22	29.78	27.16	10.56	36.61	32.52	10.99	42.73	38.88	11.29	49.67	49.67	11.64	57.82	57.82	12.11	67.24	67.24	12.74
70.0 (21.1)	1250	16.72	15.38	10.06	22.16	20.36	10.56	27.86	25.40	11.04	34.08	30.27	11.57	41.05	37.36	12.21	47.50	47.50	12.77	54.97	54.97	13.49	63.50	63.50	14.43
	1600	17.42	16.02	10.18	22.81	20.96	10.58	28.65	26.12	10.98	34.98	31.06	11.39	41.85	38.08	11.88	48.56	48.56	12.30	56.41	56.41	12.86	65.49	65.49	13.61
	1800	17.61	16.20	10.27	23.19	21.31	10.65	29.01	26.45	11.01	35.48	31.51	11.39	42.22	38.42	11.81	49.02	49.02	12.19	57.01	57.01	12.69	66.28	66.28	13.38
75.0 (23.9)	1250	15.90	14.63	10.52	21.27	19.55	11.04	27.07	24.68	11.54	33.36	29.63	12.12	40.57	36.92	12.83	46.89	46.89	13.40	54.17	54.17	14.15	62.50	62.50	15.11
	1600	16.50	15.18	10.63	22.04	20.25	11.06	27.89	25.43	11.47	34.21	30.38	11.91	41.36	37.63	12.46	47.93	47.93	12.90	55.60	55.60	13.48	64.47	64.47	14.26
	1800	16.78	15.43	10.73	22.36	20.54	11.12	28.23	25.74	11.50	34.58	30.71	11.89	41.70	37.95	12.38	48.38	48.38	12.78	56.20	56.20	13.30	65.25	65.25	14.01
27SCA560A00* Outdoor Section With FJ5AN*D60L*Indoor Section																									
65.0 (18.3)	1775	20.98	19.30	11.86	26.81	24.64	12.29	33.31	30.37	12.72	41.27	36.66	13.27	48.26	43.92	13.66	56.18	56.18	14.16	64.59	64.59	14.60	72.80	72.80	15.22
	2000	21.30	19.60	12.00	27.17	24.97	12.39	33.72	30.74	12.78	41.61	36.96	13.26	48.71	44.32	13.59	56.76	56.76	14.03	64.90	64.90	14.38	72.96	72.96	14.91
	2250	21.63	19.90	12.17	27.52	25.29	12.53	34.11	31.10	12.88	41.97	37.28	13.31	49.14	44.71	13.60	57.21	57.21	13.94	65.10	65.10	14.27	72.93	72.93	14.72
70.0 (21.1)	1775	20.21	18.59	12.38	26.08	23.97	12.83	32.57	29.70	13.27	40.05	35.57	13.80	47.74	43.44	14.32	55.50	55.50	14.84	63.90	63.90	15.31	72.01	72.01	15.96
	2000	20.54	18.90	12.51	26.45	24.31	12.92	33.00	30.08	13.32	41.18	36.57	13.88	48.17	43.84	14.23	56.07	56.07	14.69	64.24	64.24	15.07	72.23	72.23	15.63
	2250	20.87	19.20	12.68	26.81	24.64	13.06	33.40	30.46	13.43	41.55	36.90	13.92	48.60	44.22	14.23	56.57	56.57	14.62	64.47	64.47	14.94	72.26	72.26	15.42
75.0 (23.9)	1775	19.35	17.80	12.93	25.28	23.23	13.40	31.80	29.00	13.87	39.05	34.68	14.40	47.24	42.99	15.03	54.82	54.82	15.57	63.20	63.20	16.06	71.22	71.22	16.74
	2000	19.69	18.11	13.06	25.66	23.58	13.50	32.23	29.39	13.91	39.56	35.13	14.39	47.65	43.36	14.92	55.38	55.38	15.40	63.56	63.56	15.80	71.47	71.47	16.39
	2250	20.02	18.42	13.23	26.03	23.92	13.63	32.64	29.76	14.01	40.09	35.61	14.45	48.06	43.74	14.90	55.91	55.91	15.33	63.81	63.81	15.66	71.54	71.54	16.17

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 Sys. capacity.

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

EDB — Entering Dry Bulb2

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Guide Specifications
General

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 210/240.
- 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 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 Advance™, and special features required prior to field start-up.

Unit Cabinet

Unit cabinet will be constructed of galvanized steel and coated with pre-paint.

Available with dense grill only.

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 or class F 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 or aluminum 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 Advance™ 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, _____ phase, 60 Hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.

Unit electrical power will be single point connection.

Control circuit will be 24v.

Special Features

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

System Design Summary

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
4. Minimum outdoor operating air temperature for heating mode is –10°F (–23.3°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
8. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Do not apply capillary tube indoor coils to these units.
11. Factory-supplied filter drier must be installed

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