

27VNA3

**Infinity® Variable Speed Heat Pump
with Greenspeed® Intelligence
and Puron Advance™ (R-454B) Refrigerant
3 to 5 Nominal Tons**



Turn to the experts

PRODUCT DATA



Carrier's 27VNA3 with Greenspeed™ Intelligence is another breakthrough product providing up to 10 HSPF2 heating efficiency and up to 23 SEER2 cooling efficiency. The variable speed capacity control results in strong heating capacity as the outdoor temperature drops resulting in less reliance on auxiliary heat. Lower speed operation is available when needed in cooling for enhanced comfort and dehumidification.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

Industry leading Features / Benefits

Energy Efficiency

- Up to 23 SEER2, 13 EER2, 9.5 HSPF2
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 55 dBA in low speed

Comfort

- Variable speed compressor with capacity range from 20-100%
- Air cooled variable frequency drive
 - Infinity® System Control with Greenspeed™ Intelligence required
 - Energy Tracking capability with the Infinity® System Control and latest software version
(Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity® system.)

Reliability

- Non-ozone depleting, low global warming potential Puron Advance™ refrigerant
- Greenspeed Intelligence actively monitors critical system parameters
- High pressure switch
- Suction and discharge pressure transducer
- Electronic expansion valve (EXV) for optimum heating performance
- Filter drier (field installed)
- Internal compressor stator heat standard
- Balanced refrigeration system for maximum reliability

Flexibility and Installation:

- Vertex™ Technology compatible
- 2 control wires to outdoor unit
- Minimum and maximum airflow adjustments
- Compressor heating capacity control
- Hybrid Heat™ Dual Fuel capable

Durability

WeatherArmor Ultra™ Protection Package:

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

Applications

- Heating mode operation down to -13°F (-25°C) outdoor ambient temperature.
- Cooling mode operation up to 125°F (51.7°C) outdoor ambient temperature.
- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.7 m) for 5T and 100 feet (30.5 m) for 3T and 4T outdoor above indoor, or up to 80 ft. (24.4 m) indoor above outdoor (See Longline Guide for more information.)
- Low ambient cooling down to 0°F (-17.8°C) when enabled with the Infinity® System Control.

Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	7	V	N	A	3	3	6	A	0	0	3	0
Refrigerant & OD Type	OD Design type		Tier	Major Series	SEER2	Nominal Cooling Capacity		Variations	Feature	Open	Voltage	Minor Series
27 = Puron Advance™ (R-454B) HP	V = Variable Speed		N= Infinity®	A = Initial Series	3 = 23 SEER2	1,000 Btuh (nominal)		A = Standard HP	0=Standard	0=Not Defined	3=208-230-1	0, 1, 2...



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



Quality ISO 9001



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. Failure to follow this product should follow the manufacturer's refrigerant charge and air flow instructions. Failure to follow proper charge and air flow may reduce energy efficiency and shorten equipment life.

CATALOG ORDERING NUMBERS

Size	Model Number
36	27VNA336A003
48	27VNA348A003
60	27VNA360A003

STANDARD FEATURES

FEATURES	Unit Size		
	36	48	60
Puron Advance™ (R-454B) Refrigerant	X	X	X
Variable Speed Rotary Compressor	X	X	
Variable Speed Scroll Compressor			X
Air-Cooling Variable Frequency Drive	X	X	X
Louvered Coil Guard	X	X	X
Factory Provided, Field-Installed Filter Drier	X	X	X
Front-Seating Service Valves	X	X	X
In-unit Pressure and Temperature Protection	X	X	X
Suction and Discharge Pressure Transducers	X	X	X
High Pressure Switch	X	X	X
Compressor Stator Heat	X	X	X
Utility Interface Connections	X	X	X
Bluetooth® Module	X	X	X
Enhanced Diagnostics using Greenspeed® Intelligence	X	X	X
Energy Tracking Capability	X	X	X
Sound Blanket	X	X	X
Outdoor Air Temperature Sensor	X	X	X
Long Line Capability	X	X	X

X = Standard

AHRI 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

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations.

Duct systems capable of these ranges will ensure the system will deliver full capacity at all outdoor temperatures.

Minimum and maximum airflows can be adjusted from these numbers in the Infinity® System Control Heat Pump Setup screen.

Size	Cooling - Comfort Mode		Cooling - Efficiency Mode	
	Max Airflow	Min Airflow	Max Airflow	Min Airflow
36	900	325	1200	550
48	1200	500	1680	615
60	1400	500	1725	850

Size	Heating - Comfort Mode		Heating - Efficiency Mode	
	Max Airflow	Min Airflow	Max Airflow	Min Airflow
36	1200	325	1400	650
48	1610	500	1610	600
60	1600	500	1850	850

PHYSICAL DATA

UNIT SIZE	36	48	60
COMPRESSOR TYPE	Variable Speed Rotary		Variable Speed Scroll
REFRIGERANT	Puron Advance™ (R-454B)		
Charge lb* (kg)	12.1 (5.49)	12.3 (5.58)	13.0 (5.90)
Outdoor Htg Exp. Device	EXV	EXV	EXV
COND FAN	Forward Swept Propeller Type, Direct Drive		
Air Discharge	Vertical		
Maximum Air Qty (CFM)	4700	5000	5000
Motor HP	1/3	1/3	1/3
Motor RPM	200-750	200-800	200-800
COND COIL			
Face Area (sq ft.)	30.1	30.1	30.1
Fins per In.	20	20	20
Rows	2	2	2
Circuits	8	9	9
VALVE CONNECT. (In. ID)			
Vapor	7/8	7/8	7/8
Liquid	3/8		
REFRIGERANT TUBES† (In. OD)			
Rated Vapor†	7/8	1-1/8	1 - 1/8
Max 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™ Refrigerant tables.

Note: See unit Installation Instruction for proper installation.

ELECTRICAL DATA

UNIT SIZE	V-PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS	SCCR
		MAX	MIN	MRC	RLA	FLA			
36	208-230-1	253	197	25	14.3	0.88	23.8	25	5kA rms
48				35	20.4	0.88	31.0	40	5kA rms
60				35	27.4	0.88	37.5	40	5kA rms

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

†. Time-Delay fuse.

FLA - Full Load Amps, **MCA**-Minimum Circuit Amps, **MRC** - Maximum Rated Current, **RLA**-Rated Load Amps

SCCR - Short-Circuit Current Rating

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.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable 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 (61.0)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61.0)	250 (76.2)	5T - 200 (61.0) 3T/4T - 100 (30.5)
Outdoor unit BELOW indoor unit	200 (61.0)	250 (76.2)	80 (24.4)

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

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

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. 27VNA3 Heat Pumps do not require any additional accessories for Long Line applications. 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.

Refrigerant Long Line Description ft (m)

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

NOTE: See Long Line Guideline for details

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in)	Cooling Capacity Loss (%)										
		Equivalent Length (ft)										
		25	50	75	80	100	125	150	175	200	225	250
36000	5/8	1.7	3.9	6.0	6.5	8.2	10.2	12.0	13.8	15.4	17.0	18.4
	3/4	0.4	1.3	2.3	2.5	3.4	4.4	5.4	6.4	7.3	8.3	9.1
	7/8	0.0	0.6	1.1	1.2	1.8	2.5	3.2	3.9	4.5	5.2	5.8
48000	3/4	1.2	2.6	4.0	4.5	5.7	7.3	8.6	10.0	11.3	12.5	13.7
	7/8	0.5	1.2	2.0	2.3	3.1	4.0	4.9	5.8	6.8	7.6	8.4
	1 1/8	0.0	0.2	0.5	0.7	1.1	1.6	2.1	2.6	3.1	3.5	4.0
60000	3/4	1.6	3.5	5.4	5.8	7.3	9.1	10.8	12.4	13.9	15.3	16.6
	7/8	0.7	1.6	2.8	3.0	3.9	5.0	6.1	7.1	8.1	9.1	10.0
	1 1/8	0.0	0.3	0.8	0.9	1.3	1.8	2.3	2.8	3.3	3.8	4.3

ACCESSORIES

KIT NUMBER	KIT NAME	36	48	60
KSASH2601COP	SOUND BLANKET (ACCUMULATOR)	X	X	
KSASH2701COP	SOUND BLANKET (ACCUMULATOR)			X
KSASF0201AAA	SUPPORT FEET	X	X	X
KHASS0606MPK	SNOW STAND	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)
Compressor Stator Heat	Standard with Infinity® System Control	No	No
Evaporator Freeze Protection	Standard with Infinity® System Control	No	No
Low-Ambient Control	Standard with Infinity® System Control	No	No
Support Feet	Recommended	No	Recommended
Winter Start Control	Standard with Infinity® System Control	No	No

Accessory Description and Usage

Snow Stand

Coated wire rack which supports unit 18 in. (457.2 mm) above mounting pad to allow for drainage from unit base.

Usage Guideline:

Suggested in the following applications:

- Unit installations in heavy snowfall areas.
- Unit installations in snow drift locations.
- Unit installations in areas of prolonged subfreezing temperatures.
- All commercial installations.

Sound Blanket (Accumulator)

Wraparound sound reducing cover for the accumulator. Reduces possible transient tones that may resonate in the accumulator due to variability in system operation.

Usage Guideline:

Although all units are designed and tested to eliminate unpleasant tones, in the unlikely event a transient tone is experienced, this sound blanket can reduce the tone by up to 10 dB.

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.

SOUND POWER LEVEL

Unit Size	Typical Octave Band Spectrum (dB, without tone adjustment)	Min Cooling	Nominal* Cooling	Min Heating	Nominal* Heating
36	Speed	900	4200	900	4320
	125	61.3	65.4	65.3	65.6
	250	61.1	61.7	62.0	60.4
	500	51.2	61.4	50.2	58.1
	1000	46.3	56.3	45.5	55.0
	2000	39.9	54.3	37.3	53.8
	4000	36.6	52.3	37.3	53.0
	8000	45.0	53.3	45.6	52.6
	Sound Rating (dBA)	56	64	55	68
48	Speed	900	3300	900	3720
	125	61.3	64.5	65.1	65.8
	250	55.7	68.1	56.3	60.8
	500	53.9	65.2	53.7	60.7
	1000	52.2	61.2	45.1	54.2
	2000	41.5	57.4	39.8	54.1
	4000	37.7	54.7	36.7	53.6
	8000	42.8	56.6	40.1	59.8
	Sound Rating (dBA)	56	67	56	68
60	Speed	960	3540	900	4440
	125	65.4	72.0	61.6	69.2
	250	57.6	69.1	56.4	66.9
	500	56.3	66.1	53.1	65.6
	1000	48.4	64.3	44.9	62.5
	2000	46.1	63.8	44.0	63.0
	4000	43.7	56.8	47.1	62.4
	8000	44.2	58.4	44.9	61.6
	Sound Rating (dBA)	58	72	55	71

*. Nominal condition data taken from maximum speed operating at 95°F in cooling and 47°F in heating.

Note: Tested in compliance with AHRI 270-2008 but not listed with AHRI.

CHARGING SUBCOOLING

UNIT SIZE	MOMINAL SUBCOOLING*	REQUIRED SUBCOOLING °F (°C) - See System Control
36	7	Subcooling recommendation displayed on System Control in Charging Mode must be followed
48	7	
60	10	

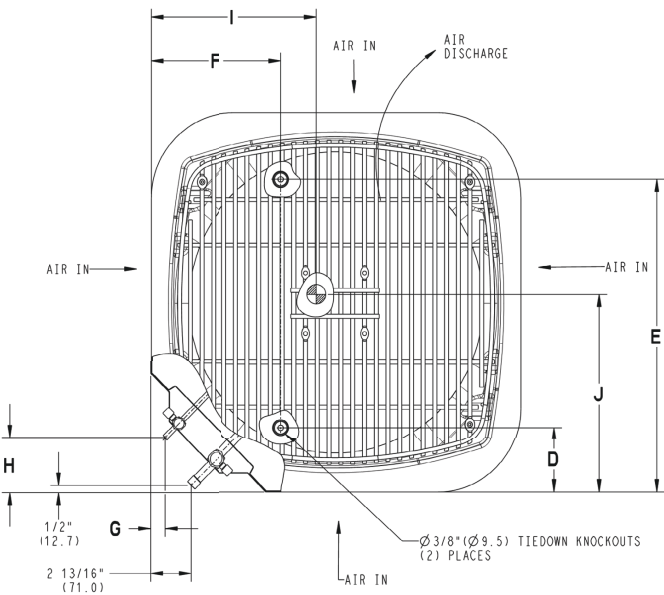
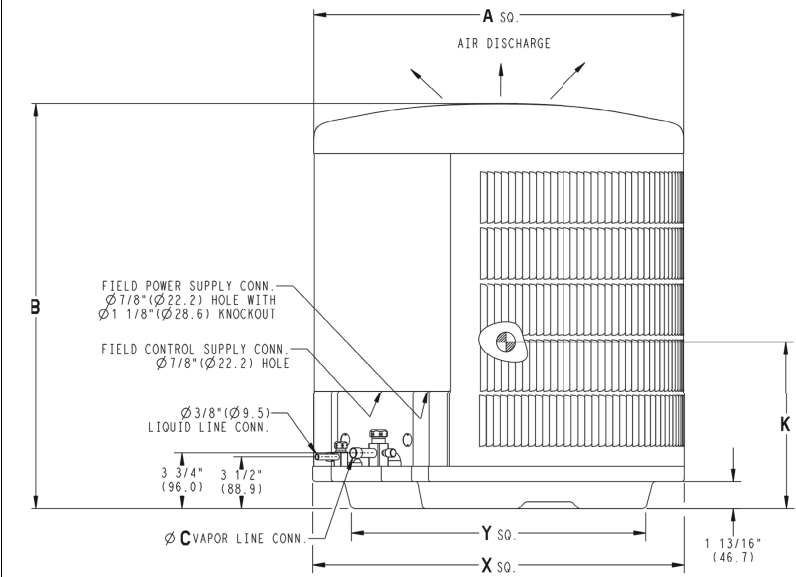
*. Nominal subcooling targets for use as reference or in specific applications with 25 ft. (7.6 m) lineset, 95°F outdoor ambient, and 80°F/67°F indoor DB/WB.

DIMENSIONS

UNIT	SERIES	ELECTRICAL CHARACTERISTICS					A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
							INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
27VNA336A*0	0	Y	N	N	N		35	889.0	47 3/16	1199.0	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	16 1/4	412.8	17 1/4	438.2	23	584.2	320	145.1	351	159.2	38	965.0	51	1296.0
27VNA348A*0	0	Y	N	N	N		35	889.0	47 3/16	1199.0	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	15 1/2	393.7	16	406.4	22 1/2	571.5	348	157.9	379	171.9	38	965.0	51	1296.0
27VNA360A*0	0	Y	N	N	N		35	889.0	47 3/16	1199.0	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	14 1/2	368.3	16	406.4	22 1/2	571.5	369	167.4	399	181.0	38	965.0	51	1296.0

206-230-1-60	Y=YES N=NO
208-230-3-60	
460-3-60	
575-3-60	

NOTES:
1. CENTER OF GRAVITY

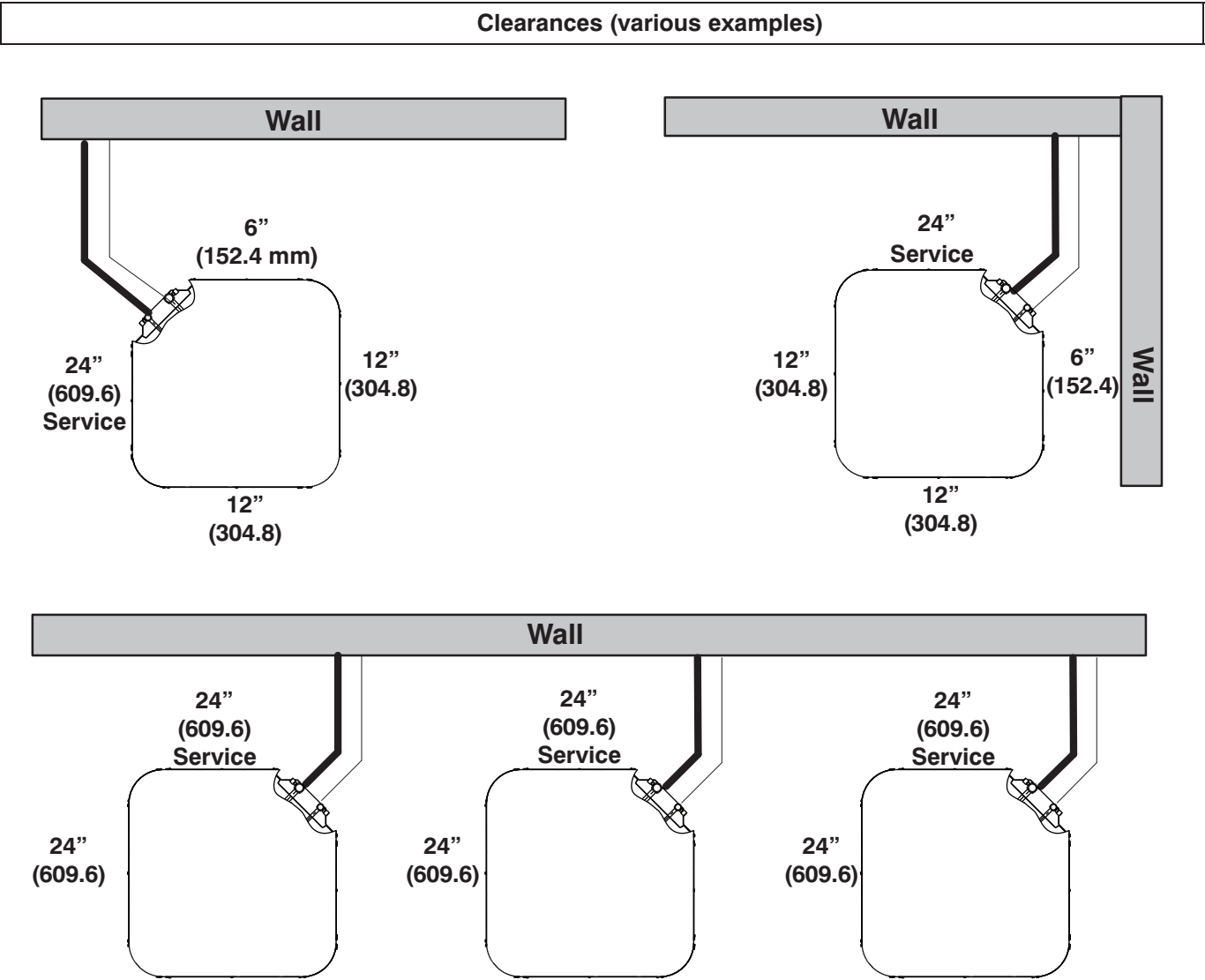


UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
-	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
-	31 3/16	792.5	22 15/16	583.2
36,48,60	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM) U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD6024-4 REV.A

CLEARANCES

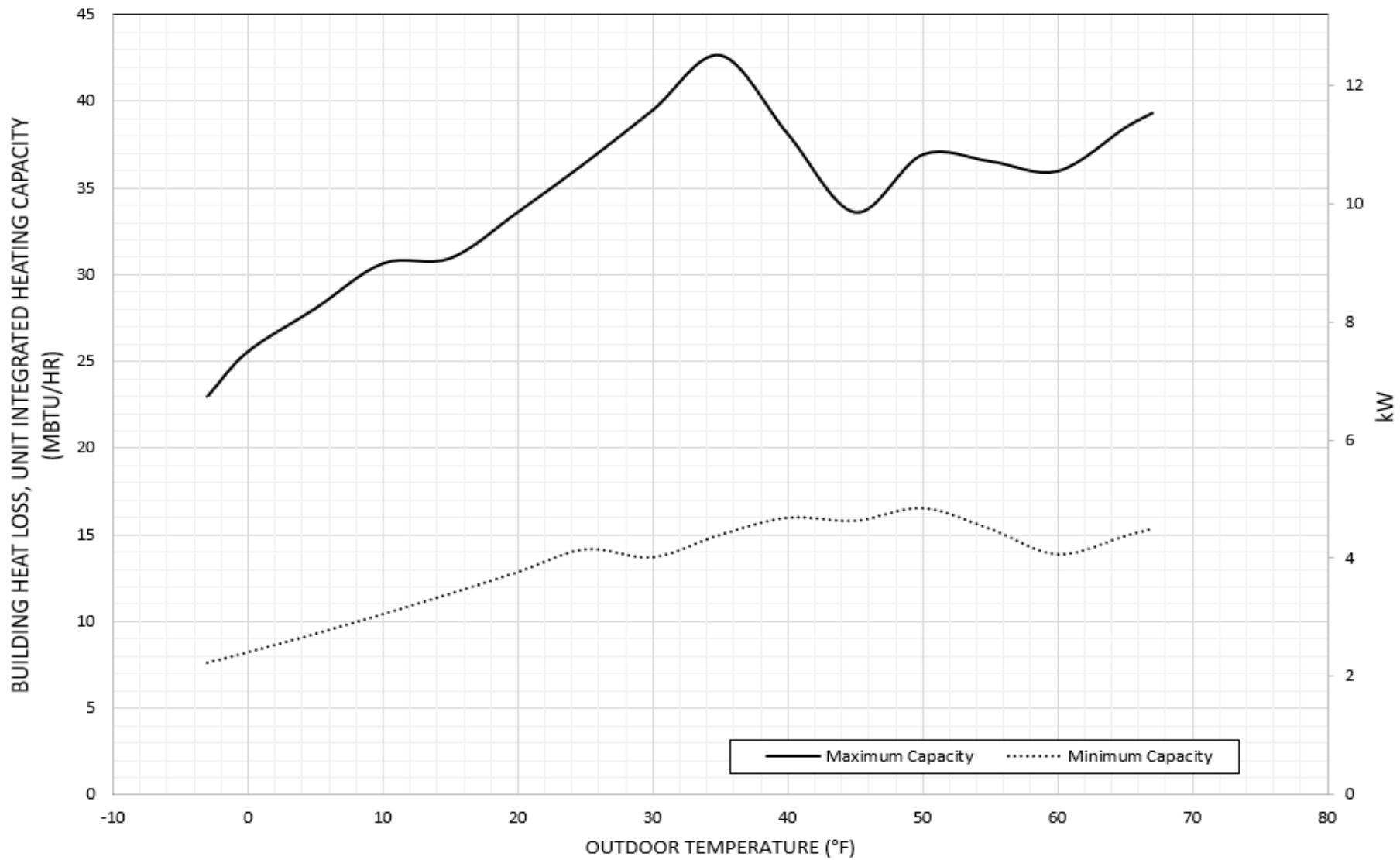


Note: Numbers in () = mm

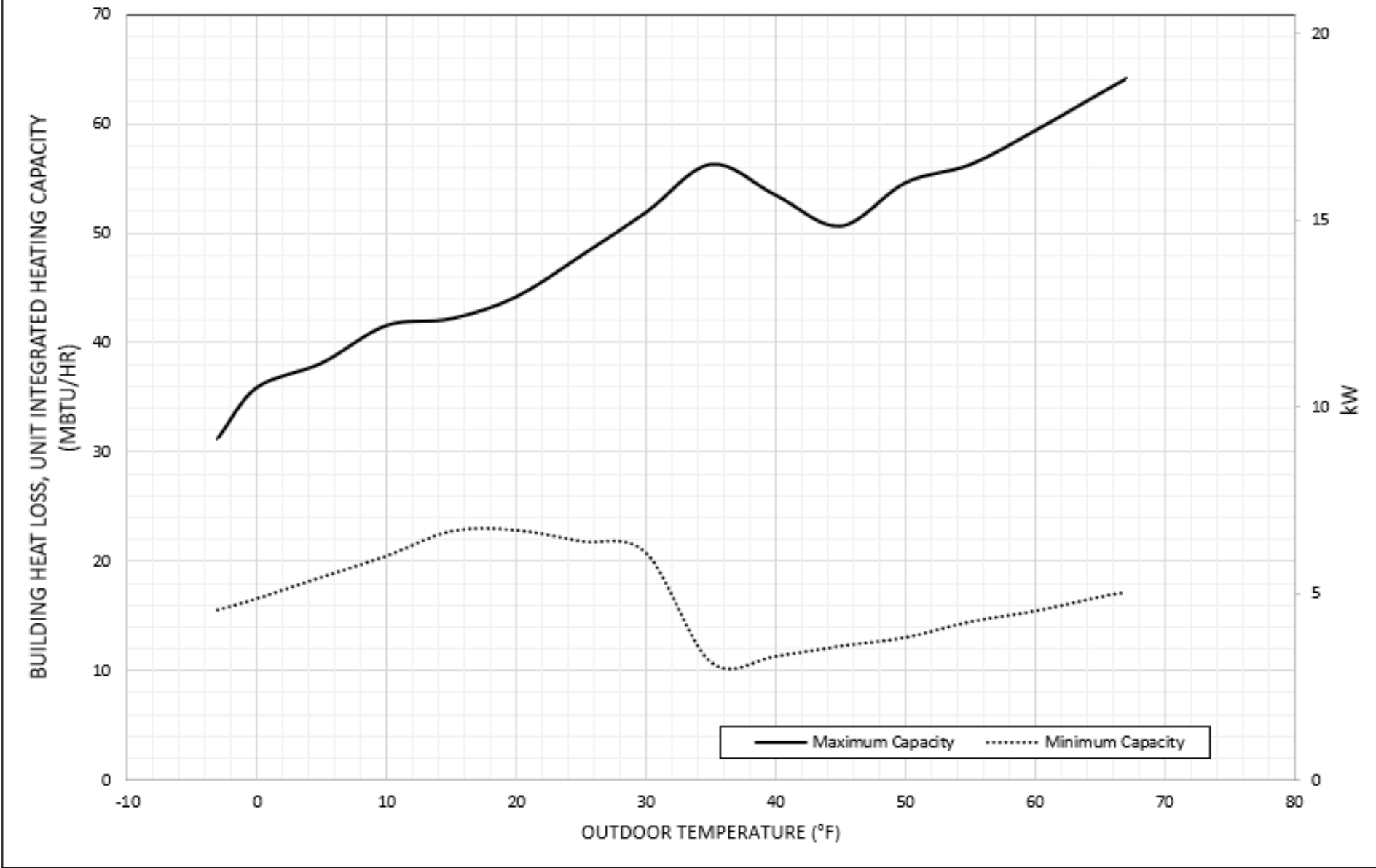
IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

BALANCE POINT WORKSHEET

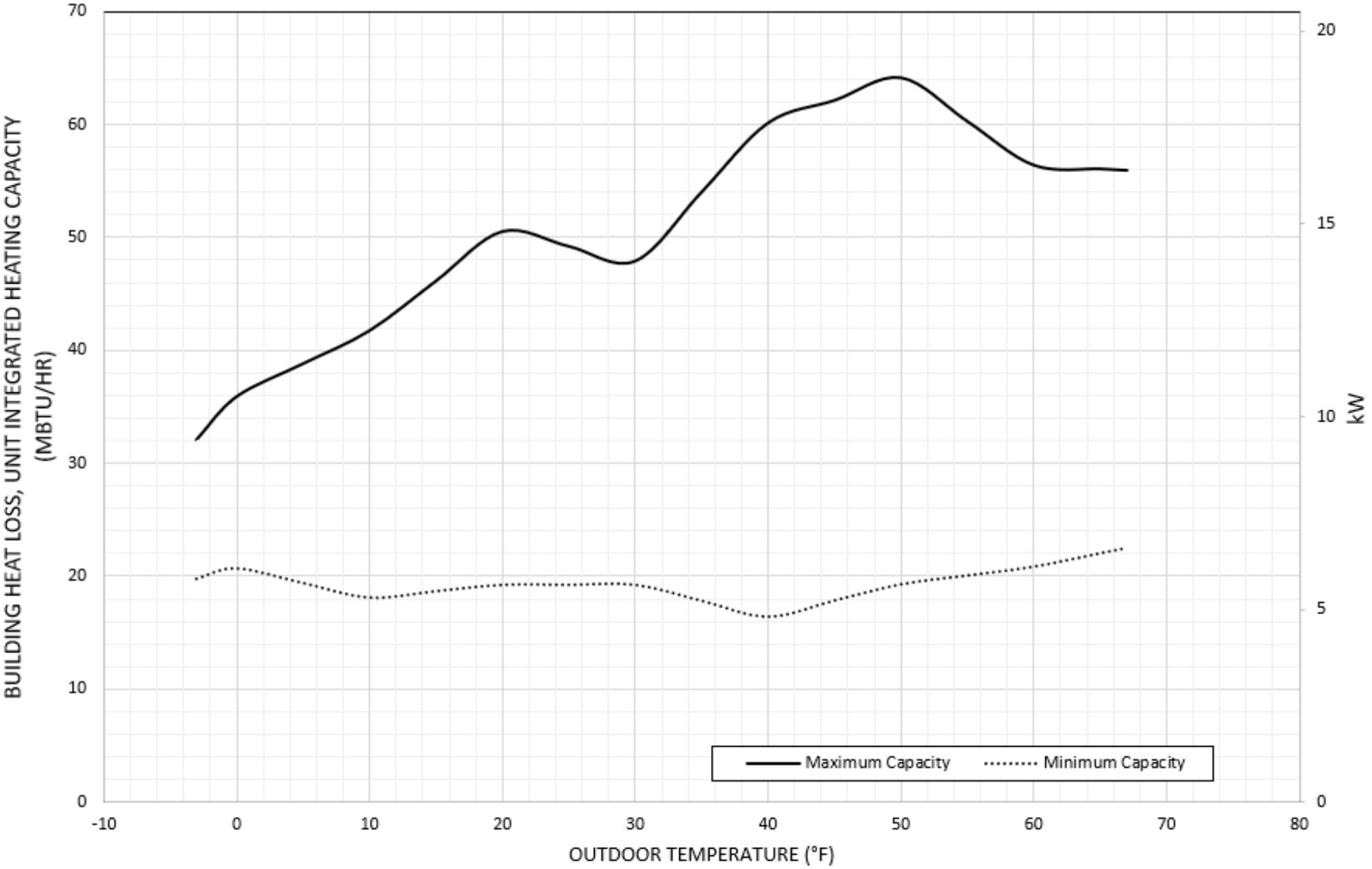
3 TON BALANCE POINT WORKSHEET
COMFORT MINIMUM AND MAXIMUM HEATING CAPACITIES



4 TON BALANCE POINT WORKSHEET
COMFORT MINIMUM AND MAXIMUM HEATING CAPACITIES



5 TON BALANCE POINT WORKSHEET
COMFORT MINIMUM AND MAXIMUM HEATING CAPACITIES



Detailed Cooling Capacities# - Comfort + Dehumidify Mode

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																											
		65.0 (18.3)			75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)									
		ID SCFM	Capacity MBtuh†		Total Sys. KW**	ID SCFM	Capacity MBtuh†		Total Sys. KW**	ID SCFM	Capacity MBtuh†		Total Sys. KW**	ID SCFM	Capacity MBtuh†		Total Sys. KW**	ID SCFM	Capacity MBtuh†		Total Sys. KW**	ID SCFM	Capacity MBtuh†		Total Sys. KW**				
EDB	EWB		Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡					
27VNA324 Maximum Demand																													
75 (23.9)	72.0 (22.2)	900	44.5	17	1.79	875	40	15.9	2.03	850	40	15.7	2.15	800	36.4	14.5	2.44	750	33.8	13.4	3.39	700	31.6	12.5	3.87	625	29	11.5	4.33
	67.0 (19.4)		40	21.4	1.85		36.2	20	2.1		36	19.9	2.18		32.8	18.4	2.46		30.4	17	3.4		28.4	15.8	3.87		26	14.4	4.29
	63.0 (17.2)††		37	24.8	1.91		33.4	23.2	2.14		33.2	23.2	2.21		30.2	21.4	2.47		28	19.7	3.41		26	18.4	3.85		23.8	16.7	4.25
	57.0 (13.9)		32.8	30	1.95		29.6	28	2.18		29.4	28	2.23		26.8	25.8	2.48		24.8	23.8	3.4		23	22.2	3.83		21	20	4.22
80 (26.7)	72.0 (22.2)	900	44.5	21.4	1.8	875	40	20	2.04	850	40	20	2.16	800	36.4	18.4	2.44	750	33.8	17	3.4	700	31.4	15.9	3.87	625	28.8	14.5	4.31
	67.0 (19.4)		40	25.8	1.86		36.2	24.2	2.1		36	24.2	2.19		32.8	22.2	2.46		30.4	20.6	3.41		28.4	19.2	3.88		26	17.4	4.3
	63.0 (17.2)††		37	29.4	1.91		33.4	27.4	2.14		33	27.4	2.2		30.2	25.2	2.47		28	23.4	3.41		26	21.8	3.85		23.8	19.7	4.27
	57.0 (13.9)		34.2	32.8	1.95		31	30.6	2.18		30.8	30.4	2.23		28	28	2.47		26	25.6	3.4		24.2	24	3.84		22	21.8	4.23
27VNA324 Intermediate Demand																													
75 (23.9)	72.0 (22.2)	570	28	10.8	0.82	540	25	9.9	1.02	520	24.6	9.8	1.12	500	22.4	9	1.32	480	21.8	8.7	2.02	470	21.2	8.4	2.45	430	20	8	2.88
	67.0 (19.4)		25.2	13.6	0.88		22.4	12.5	1.07		22	12.3	1.15		20	11.3	1.34		19.5	10.9	2.04		18.9	10.6	2.45		17.9	9.9	2.88
	63.0 (17.2)††		23.2	15.7	0.93		20.6	14.4	1.11		20.2	14.2	1.18		18.3	13.2	1.36		17.9	12.6	2.06		17.3	12.3	2.45		16.3	11.5	2.86
	57.0 (13.9)		20.4	18.9	0.99		18.1	17.3	1.15		17.7	17.1	1.21		16	15.9	1.37		15.6	15.2	2.05		15.1	14.8	2.44		14.2	13.7	2.83
80 (26.7)	72.0 (22.2)	570	28	13.6	0.82	540	24.8	12.5	1.01	520	24.4	12.4	1.11	500	22.2	11.4	1.31	480	21.8	11	2.03	470	21	10.7	2.44	430	19.9	10	2.88
	67.0 (19.4)		25.2	16.4	0.89		22.4	15	1.07		22	14.9	1.16		19.9	13.8	1.34		19.5	13.2	2.04		18.9	12.9	2.45		17.8	12	2.87
	63.0 (17.2)††		23	18.5	0.93		20.6	17	1.11		20.2	16.8	1.18		18.3	15.6	1.37		17.8	14.9	2.05		17.2	14.5	2.44		16.3	13.5	2.86
	57.0 (13.9)		21.4	20.4	0.97		19	18.8	1.14		18.7	18.4	1.2		17.1	17	1.38		16.5	16.3	2.05		16	15.9	2.44		15	14.8	2.84
27VNA324 Minimum Demand																													
75 (23.9)	72.0 (22.2)	400	19.6	7.6	0.49	375	17.3	6.9	0.65	350	16.8	6.7	0.76	350	15.3	6.2	0.9	350	15.7	6.3	1.46	350	15.7	6.3	1.84	325	15.3	6.1	2.26
	67.0 (19.4)		17.6	9.5	0.55		15.5	8.6	0.7		15	8.3	0.79		13.6	7.8	0.93		14	7.9	1.49		14	7.9	1.85		13.6	7.6	2.26
	63.0 (17.2)††		16.1	11	0.59		14.1	10	0.73		13.6	9.6	0.81		12.4	9	0.95		12.7	9.1	1.49		12.8	9.1	1.87		12.4	8.7	2.25
	57.0 (13.9)		14.1	13.1	0.64		12.3	11.9	0.77		11.9	11.5	0.85		10.8	10.8	0.96		11.1	10.9	1.51		11.1	10.9	1.86		10.7	10.4	2.23
80 (26.7)	72.0 (22.2)	400	19.6	9.6	0.49	375	17.3	8.7	0.65	350	16.7	8.4	0.75	350	15.2	7.9	0.9	350	15.7	8	1.47	350	15.7	8	1.85	325	15.3	7.7	2.27
	67.0 (19.4)		17.5	11.5	0.55		15.4	10.4	0.7		14.9	10.1	0.79		13.6	9.5	0.93		13.9	9.5	1.48		14	9.5	1.86		13.6	9.1	2.26
	63.0 (17.2)††		16	12.9	0.59		14.1	11.8	0.73		13.6	11.4	0.82		12.3	10.7	0.94		12.7	10.8	1.5		12.7	10.8	1.85		12.4	10.3	2.26
	57.0 (13.9)		14.8	14.2	0.62		13	12.9	0.76		12.6	12.4	0.83		11.6	11.5	0.95		11.8	11.7	1.5		11.8	11.7	1.86		11.4	11.2	2.25

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

Detailed Cooling Capacities# - Comfort + Dehumidify Mode (Continued)

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																											
EDB	EWB	ID SCFM	65.0 (18.3)			ID SCFM	75.0 (23.9)			ID SCFM	85.0 (29.4)			ID SCFM	95.0 (35.0)			ID SCFM	105.0 (40.6)			ID SCFM	115.0 (46.1)			ID SCFM	125.0 (51.7)		
			Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
27VNA348 Maximum Demand																													
75 (23.9)	72.0 (22.2)	1200	67	25.2	2.1	1200	53.5	20.2	2.39	1200	59.5	22.4	2.98	1100	47.5	19	3.19	1000	44	16.6	3.79	1000	41	15.5	4.29	900	37	14.1	4.74
	67.0 (19.4)		61	32	2.19		48.5	25.8	2.46		54	29	3.04		43	24.4	3.21		40	21.4	3.81		37.2	20.2	4.28		33.6	18.4	4.71
	63.0 (17.2)††		56.5	37.4	2.25		45	30.2	2.51		50	34.2	3.08		40	28.8	3.25		36.8	25	3.79		34.4	24	4.26		31.2	21.8	4.7
	57.0 (13.9)		51	45.5	2.33		40.5	36.8	2.57		44.5	41.5	3.09		35.6	35	3.24		32.8	30.4	3.76		30.8	29	4.21		28	26.4	4.64
80 (26.7)	72.0 (22.2)	1200	67	32	2.11	1200	53.5	25.8	2.4	1200	59.5	29	2.99	1100	47.5	24.4	3.21	1000	43.5	21.2	3.76	1000	40.5	20.2	4.25	900	37	18.3	4.77
	67.0 (19.4)		61	38.5	2.2		48.5	31.4	2.47		54	35.4	3.05		43	29.8	3.23		39.5	26	3.77		37	24.8	4.27		33.4	22.4	4.72
	63.0 (17.2)††		56.5	44	2.25		45	35.8	2.51		50	40.5	3.08		40	34.2	3.25		36.8	29.6	3.79		34.2	28.6	4.23		31.2	25.8	4.7
	57.0 (13.9)		52.5	49.5	2.29		42	39.5	2.53		47	44.5	3.07		37.6	37.4	3.24		34.6	32.6	3.78		32.8	30.8	4.25		29.6	27.8	4.68
27VNA348 Intermediate Demand																													
75 (23.9)	72.0 (22.2)	730	39	14.8	0.91	730	31.6	12	1.15	730	35.6	13.4	1.54	700	29.4	11.8	1.76	730	32.6	12.4	2.66	770	32.6	12.4	3.31	730	45.5	17.1	3.63
	67.0 (19.4)		35.4	18.9	0.99		28.6	15.4	1.21		32.2	17.3	1.59		26.6	15.3	1.8		29.4	15.8	2.67		29.6	16	3.32		27	14.8	3.7
	63.0 (17.2)††		32.6	22	1.04		26.4	18.1	1.25		29.6	20.4	1.61		24.4	18	1.81		27.2	18.4	2.69		27.2	18.9	3.3		24.8	17.5	3.67
	57.0 (13.9)		29	26.8	1.1		23.4	22	1.29		26.4	24.6	1.64		21.8	21.6	1.83		24	22.4	2.67		24.2	22.8	3.28		22.2	21	3.63
80 (26.7)	72.0 (22.2)	730	39	18.9	0.92	730	31.4	15.4	1.15	730	35.4	17.3	1.54	700	29.2	15.3	1.75	730	32.4	15.8	2.66	770	32.6	16	3.31	730	29.6	14.8	3.71
	67.0 (19.4)		35.2	23	0.98		28.4	18.8	1.21		32	21.2	1.58		26.4	18.7	1.79		29.4	19.2	2.68		29.4	19.6	3.3		26.8	18.2	3.7
	63.0 (17.2)††		32.6	26.2	1.04		26.2	21.4	1.24		29.6	24.2	1.61		24.4	21.4	1.82		27	21.8	2.67		27.2	22.4	3.31		24.8	20.8	3.68
	57.0 (13.9)		30.6	28.6	1.07		24.8	23.4	1.27		28.2	26.2	1.63		23	23	1.81		25.4	23.8	2.68		25.8	24.2	3.3		23.6	22.2	3.66
27VNA348 Minimum Demand																													
75 (23.9)	72.0 (22.2)	500	26	9.8	0.52	500	21	8	0.71	500	24.4	9.2	1.03	500	20.4	8.3	1.19	600	26.6	10.1	2.12	650	28.4	10.8	2.87	650	26.2	10	3.23
	67.0 (19.4)		23.4	12.6	0.58		18.9	10.3	0.76		22	11.8	1.07		18.4	10.7	1.22		24	12.9	2.15		25.6	13.8	2.87		23.6	13	3.22
	63.0 (17.2)††		21.6	14.8	0.63		17.3	12.1	0.78		20.2	13.9	1.09		16.8	12.6	1.24		22	15.1	2.15		23.6	16.2	2.87		21.8	15.4	3.22
	57.0 (13.9)		19	17.8	0.67		15.4	14.5	0.82		17.9	16.7	1.11		15	15	1.25		19.5	18.2	2.16		20.8	19.6	2.85		19.5	18.4	3.19
80 (26.7)	72.0 (22.2)	500	25.8	12.6	0.52	500	20.8	10.3	0.71	500	24.2	11.9	1.03	500	20.4	10.8	1.19	600	26.4	12.9	2.12	650	28.2	13.8	2.87	650	37.4	17.3	3.14
	67.0 (19.4)		23.2	15.4	0.58		18.7	12.6	0.75		21.8	14.5	1.07		18.3	13.2	1.22		23.8	15.7	2.14		25.6	16.9	2.88		23.6	16	3.23
	63.0 (17.2)††		21.4	17.6	0.62		17.3	14.4	0.79		20.2	16.6	1.1		16.8	15.1	1.24		22	17.8	2.15		23.6	19.2	2.88		21.6	18.4	3.2
	57.0 (13.9)		20.2	19	0.64		16.4	15.4	0.8		19.1	17.8	1.1		16	16	1.25		20.6	19.4	2.15		22.2	20.8	2.88		20.8	19.5	3.21

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

Detailed Cooling Capacities# - Comfort + Dehumidify Mode (Continued)

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																											
EDB	EWB	ID SCFM	65.0 (18.3)			ID SCFM	75.0 (23.9)			ID SCFM	85.0 (29.4)			ID SCFM	95.0 (35.0)			ID SCFM	105.0 (40.6)			ID SCFM	115.0 (46.1)			ID SCFM	125.0 (51.7)		
			Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**
			Total	Sens‡	Total		Sens‡	Total	Sens‡		Total	Sens‡	Total		Sens‡	Total	Sens‡		Total	Sens‡									
27VNA360 Maximum Demand																													
75 (23.9)	72.0 (22.2)	1400	67	26.8	3.16	1400	66	26.4	3.36	1400	65	25.8	3.73	1300	60.5	23.8	4.04	1250	57.5	22.2	4.63	1125	53	19.8	5.19	1100	47.5	17.1	5.54
	67.0 (19.4)		60.5	33.8	3.19		59.5	33.4	3.37		58.5	32.8	3.71		55	30.4	4.04		52	28.6	4.59		48	25.2	5.14		43	22	5.47
	63.0 (17.2)††		56	39	3.23		55	39	3.39		54	38.5	3.7		50.5	35.6	4		48	33.4	4.57		44	29.4	5.08		39.5	25.8	5.41
	57.0 (13.9)		50	47	3.26		49	47	3.4		48	46.5	3.68		45	43	3.96		42.5	40.5	4.49		39	35.6	5		35	31.2	5.32
80 (26.7)	72.0 (22.2)	1400	67	33.8	3.17	1400	66	33.4	3.37	1400	64.5	33	3.71	1300	60.5	30.6	4.05	1250	57.5	28.6	4.64	1125	53	25.2	5.21	1100	47.5	22	5.55
	67.0 (19.4)		60.5	40.5	3.19		59.5	40.5	3.38		58.5	40	3.71		54.5	37	4.01		52	34.8	4.6		47.5	30.6	5.11		43	26.8	5.48
	63.0 (17.2)††		56	46	3.23		55	46	3.39		54	45.5	3.7		50.5	42	4		48	39.5	4.57		44	34.8	5.08		39.5	30.6	5.41
	57.0 (13.9)		51.5	51.5	3.24		51	51	3.4		50.5	50	3.69		47.5	46.5	3.99		45	43.5	4.53		41	38.5	5.02		37.2	33.4	5.38
27VNA360 Intermediate Demand																													
75 (23.9)	72.0 (22.2)	850	40.5	16.4	1.6	850	40	16.1	1.74	850	40	16.1	2.02	820	38.5	15.3	2.38	750	33.8	13.1	2.57	710	35.6	13.3	3.47	700	31.8	11.5	3.76
	67.0 (19.4)		36.6	20.4	1.63		35.8	20.2	1.75		36	20.4	2.04		34.8	19.4	2.41		30.2	16.8	2.57		32	16.7	3.46		28.6	14.5	3.72
	63.0 (17.2)††		33.6	23.8	1.65		33	23.6	1.78		33.2	23.6	2.07		31.8	22.6	2.41		27.8	19.7	2.59		29.2	19.3	3.43		26.2	16.9	3.7
	57.0 (13.9)		29.8	28.4	1.67		29.2	28.4	1.8		29.2	28.6	2.07		28.2	27.4	2.42		24.6	23.6	2.59		25.6	23.2	3.4		23	20.4	3.65
80 (26.7)	72.0 (22.2)	850	40.5	20.6	1.6	850	39.5	20.4	1.72	850	40	20.4	2.02	820	38.5	19.5	2.39	750	33.6	16.9	2.56	710	30	14.9	2.85	700	31.6	14.6	3.75
	67.0 (19.4)		36.4	24.6	1.63		35.8	24.6	1.76		36	24.6	2.05		34.6	23.6	2.4		29.4	20.2	2.5		31.8	20.2	3.45		28.6	17.6	3.74
	63.0 (17.2)††		33.6	27.8	1.65		32.8	27.8	1.77		33	28	2.06		31.8	26.8	2.41		27.6	23.4	2.58		24.8	20.8	2.88		22.8	18.6	3.21
	57.0 (13.9)		31	31	1.67		30.6	30.6	1.79		30.8	30.6	2.07		29.8	29.2	2.41		26.2	25.2	2.58		23.6	22	2.86		21.8	19.6	3.19
27VNA360 Minimum Demand																													
75 (23.9)	72.0 (22.2)	575	26.6	10.8	0.98	575	26	10.6	1.03	575	26.6	10.7	1.26	575	26.6	10.5	1.61	500	20.8	8.2	1.62	500	26.2	9.9	2.7	500	23.6	8.6	2.95
	67.0 (19.4)		24	13.6	1.02		23.4	13.4	1.07		23.8	13.5	1.29		23.8	13.4	1.64		18.6	10.6	1.66		23.6	12.2	2.73		21.2	10.7	2.96
	63.0 (17.2)††		22.2	15.8	1.04		21.6	15.7	1.1		21.8	15.8	1.32		21.8	15.6	1.66		17	12.5	1.68		21.4	14	2.7		19.3	12.3	2.94
	57.0 (13.9)		19.5	19	1.07		19	18.9	1.13		19.1	19	1.34		19.1	18.7	1.68		15.3	14.7	1.7		18.7	16.6	2.7		16.9	14.8	2.94
80 (26.7)	72.0 (22.2)	575	26.6	13.6	0.98	575	26	13.5	1.04	575	26.4	13.6	1.25	575	26.4	13.5	1.6	500	20.8	10.7	1.63	500	26.2	12.3	2.71	500	23.6	10.8	2.96
	67.0 (19.4)		24	16.4	1.02		23.4	16.3	1.08		23.8	16.5	1.3		23.6	16.3	1.63		18.6	13.1	1.66		23.4	14.6	2.71		21.2	12.9	2.97
	63.0 (17.2)††		22	18.6	1.04		21.4	18.5	1.1		21.8	18.7	1.32		21.6	18.6	1.65		17	15	1.69		21.4	16.4	2.71		19.3	14.5	2.95
	57.0 (13.9)		20.4	20.4	1.05		20.2	20.2	1.12		20.4	20.2	1.33		20.4	20	1.66		16.4	15.7	1.69		19.5	18.2	2.71		17.8	15.9	2.95

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur

† 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 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree below 80°F (27°C).

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

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-08. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

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

EDB — Entering Dry Bulb

EWB — Entering Wet Bulb

Detailed Cooling Capacities# - Cooling Efficiency Mode

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																											
		65.0 (18.3)				75.0 (23.9)				85.0 (29.4)				95.0 (35.0)				105.0 (40.6)				115.0 (46.1)				125.0 (51.7)			
EDB	EWB	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
27VNA336 Maximum Demand																													
75 (23.9)	72.0 (22.2)	1200	46.5	17.7	1.99	1200	42	16.6	2.24	1200	42	16.5	2.34	1200	38.5	15.4	2.65	1200	36	14.4	3.69	1200	33.8	13.6	4.19	1200	31.4	12.8	4.69
	67.0 (19.4)		42	23.6	2.06		38	22.4	2.31		37.8	22.4	2.38		34.6	21.2	2.67		32.4	20.2	3.7		30.4	19.4	4.19		28.4	18.5	4.69
	63.0 (17.2)††		38.5	28.2	2.1		35	26.8	2.35		34.8	27.2	2.41		32	25.8	2.7		29.8	24.6	3.7		28	23.8	4.19		26.2	23	4.66
	57.0 (13.9)		35.2	33.8	2.15		32.2	31.8	2.39		32.2	31.8	2.42		29.8	29.8	2.69		28.2	27.8	3.71		26.8	26.4	4.19		25.2	25	4.63
80 (26.7)	72.0 (22.2)	1200	46	23.6	1.97	1200	42	22.4	2.24	1200	41.5	22.6	2.32	1200	38.5	21.2	2.66	1200	35.8	20.2	3.68	1200	33.6	19.4	4.18	1200	31.2	18.6	4.67
	67.0 (19.4)		42	29.4	2.07		37.8	28	2.3		37.6	28.4	2.37		34.6	27	2.68		32.4	25.8	3.71		31.4	23	3.47		26	16.6	3.49
	63.0 (17.2)††		39	34	2.12		35.2	32.4	2.35		35	33	2.41		32.2	31.4	2.69		30.4	29.6	3.71		28.8	28.4	4.2		27.2	26.8	4.67
	57.0 (13.9)		37.6	36	2.12		34.2	33.8	2.35		34.4	33.8	2.41		32	31.8	2.7		30.2	29.8	3.71		28.6	28.4	4.18		27	26.8	4.66
27VNA336 Intermediate Demand																													
75 (23.9)	72.0 (22.2)	850	24	9.7	0.6	800	21.2	8.9	0.76	700	20.6	8.5	0.84	750	19.9	8.4	1.1	850	19.4	8.3	1.7	850	20.8	8.8	2.28	850	19.1	8.2	2.59
	67.0 (19.4)		21.4	13.8	0.67		19	12.7	0.82		18.4	12	0.89		17.8	12	1.14		17.4	12.4	1.74		18.7	12.8	2.31		17.1	12.3	2.6
	63.0 (17.2)††		19.8	17.1	0.72		17.5	15.6	0.86		16.9	14.7	0.92		16.3	14.8	1.16		16	15.4	1.76		17.2	16	2.32		15.8	15.3	2.61
	57.0 (13.9)		19.1	18.4	0.73		17	16.8	0.88		16.2	16	0.93		15.8	15.8	1.16		15.9	15.7	1.76		16.8	16.7	2.31		15.7	15.5	2.6
80 (26.7)	72.0 (22.2)	850	23.8	13.9	0.6	800	21.2	12.7	0.76	700	20.6	12	0.85	750	19.8	12.1	1.1	850	19.3	12.4	1.7	850	20.8	12.9	2.3	850	18.9	12.3	2.58
	67.0 (19.4)		21.4	18	0.66		19	16.5	0.82		18.4	15.4	0.89		17.7	15.6	1.13		17.4	16.4	1.73		18.7	16.9	2.31		17.1	16.3	2.59
	63.0 (17.2)††		20.6	19.8	0.69		18.3	18.1	0.84		17.5	17.2	0.91		17.1	17	1.15		17.2	17	1.74		18.2	18	2.32		16.9	16.7	2.59
	57.0 (13.9)		20.6	19.7	0.69		18.2	18	0.84		17.4	17.2	0.91		17	17	1.14		17.1	16.9	1.74		18.1	17.9	2.31		16.9	16.7	2.6
27VNA336 Minimum Demand																													
75 (23.9)	72.0 (22.2)	550	11.3	5	0.18	550	9.8	4.5	0.3	550	9.3	4.4	0.38	675	9.4	4.8	0.56	675	10.1	4.9	0.92	675	14.2	6.3	1.55	675	12.9	5.8	1.78
	67.0 (19.4)		10	7.6	0.23		8.7	7.1	0.34		8.2	7.1	0.4		8.3	8	0.58		8.9	8.1	0.95		12.6	9.5	1.57		11.4	9	1.78
	63.0 (17.2)††		9.5	9.1	0.25		8.3	8.2	0.35		8	7.8	0.41		8.2	8.2	0.58		8.7	8.6	0.95		11.7	11.6	1.59		10.8	10.6	1.79
	57.0 (13.9)		9.4	9.1	0.25		8.3	8.2	0.35		7.9	7.8	0.41		8.2	8.2	0.58		8.7	8.6	0.95		11.7	11.6	1.59		10.7	10.6	1.78
80 (26.7)	72.0 (22.2)	550	11.2	7.7	0.18	550	9.7	7.2	0.3	550	9.2	7.2	0.37	675	9.3	8.1	0.55	675	9.9	8.2	0.91	675	14.1	9.5	1.55	675	12.8	9.1	1.78
	67.0 (19.4)		10.3	9.8	0.22		9	8.9	0.32		8.7	8.6	0.39		9	9	0.56		9.5	9.4	0.92		12.8	12.4	1.58		11.7	11.6	1.78
	63.0 (17.2)††		10.2	9.8	0.22		9	8.9	0.32		8.7	8.6	0.39		9	9	0.56		9.5	9.4	0.93		12.7	12.6	1.57		11.7	11.5	1.78
	57.0 (13.9)		10.2	9.8	0.22		9	8.9	0.32		8.7	8.6	0.39		9	9	0.56		9.5	9.4	0.93		12.7	12.5	1.58		11.7	11.5	1.79

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

Detailed Cooling Capacities# - Cooling Efficiency Mode (Continued)

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																																	
EDB	EWB	ID SCFM	65.0 (18.3)			ID SCFM	75.0 (23.9)			ID SCFM	85.0 (29.4)			ID SCFM	95.0 (35.0)			ID SCFM	105.0 (40.6)			ID SCFM	115.0 (46.1)			ID SCFM	125.0 (51.7)								
			Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**		Capacity MBtu/h†		Total Sys. KW**						
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡							
27VNA348 Maximum Demand																																			
75 (23.9)	72.0 (22.2)	1425	69	25.8	2.19	1575	55.5	21	2.56	1650	61.5	23	3.22	1680	50	20.2	3.49	1650	46.5	17.9	4.12	1650	43	16.8	4.63	1650	39	15.6	5.13						
	67.0 (19.4)		62.5	34	2.27		50.5	28.4	2.65		56	32	3.29		45.5	28.6	3.55		42	25.6	4.12		39	24.4	4.63		35.4	23.2	5.1						
	63.0 (17.2)††		58	40.5	2.33		46.5	34.2	2.68		51.5	39	3.31		42	35	3.57		39	31.6	4.13		36	30.4	4.59		33	29.2	5.09						
	57.0 (13.9)		53	48.5	2.4		43	40.5	2.72		48.5	45	3.34		40	39.5	3.58		37.4	35.2	4.13		35	33	4.59		32.4	30.6	5.08						
80 (26.7)	72.0 (22.2)	1425	69	33.8	2.19	1575	55	28.2	2.55	1650	61	31.8	3.21	1680	49.5	28.4	3.48	1650	46	25.6	4.1	1650	42.5	24.4	4.62	1650	39	23.2	5.17						
	67.0 (19.4)		62.5	42	2.28		50	35.6	2.63		55.5	40.5	3.27		47.5	37.6	3.59		42	33.2	4.13		38.5	32	4.58		35.2	35	4.92						
	63.0 (17.2)††		58	48	2.33		46.5	41.5	2.67		52	47.5	3.31		43	41.5	3.56		40	37.6	4.13		37.4	35.2	4.61		34.6	32.6	5.1						
	57.0 (13.9)		55.5	52	2.36		45.5	43	2.68		51.5	48	3.31		42.5	42.5	3.55		40	37.4	4.14		37.4	35.2	4.62		34.6	32.6	5.1						
27VNA348 Intermediate Demand																																			
75 (23.9)	72.0 (22.2)	1050	36.4	14	0.75	1000	28.6	11.1	0.94	990	31.8	12.7	1.28	1030	28.4	11.9	1.61	1150	31.6	12.5	2.44	1280	34.8	13.7	3.45	1350	31.8	12.9	3.9						
	67.0 (19.4)		33	19.1	0.83		25.8	15.3	1		28.6	18.7	1.34		25.6	16.7	1.65		28.4	17.7	2.46		31.6	19.7	3.47		28.8	19.2	3.89						
	63.0 (17.2)††		30.4	23	0.88		23.8	18.6	1.04		26.4	23.2	1.37		23.6	20.4	1.68		26.4	21.8	2.49		29.2	24.4	3.47		26.8	24.2	3.9						
	57.0 (13.9)		28.4	26.6	0.92		22.4	21	1.07		26	24.2	1.38		22.6	22.6	1.69		25.4	23.8	2.49		28.2	26.6	3.46		26.4	24.8	3.88						
80 (26.7)	72.0 (22.2)	1050	36.2	19	0.75	1000	28.4	15.3	0.94	990	31.4	18.7	1.28	1030	28.2	16.7	1.62	1150	31.2	17.7	2.43	1280	34.4	19.7	3.44	1350	47.5	24.4	3.78						
	67.0 (19.4)		32.8	24	0.83		25.6	19.5	1		28.6	24.4	1.34		25.4	21.4	1.65		28.4	23	2.47		31.4	25.6	3.47		28.6	25.4	3.89						
	63.0 (17.2)††		30.4	28	0.87		24	22.6	1.04		28	26	1.35		24.2	24.2	1.67		27.2	25.6	2.48		30.2	28.4	3.47		28.2	26.6	3.88						
	57.0 (13.9)		30.2	28.2	0.88		23.8	22.4	1.03		27.8	26	1.35		24.2	24	1.68		27	25.4	2.47		30	28.4	3.46		28.2	26.6	3.9						
27VNA348 Minimum Demand																																			
75 (23.9)	72.0 (22.2)	615	20.6	8.2	0.33	615	16.1	6.6	0.46	660	17.2	7.1	0.64	700	17.7	7.6	0.96	900	24.6	9.8	1.83	1100	30.6	12.1	2.96	1200	28	11.4	3.37						
	67.0 (19.4)		18.6	11.7	0.39		14.4	9.7	0.5		15.4	10.6	0.68		15.8	11	0.99		22	14	1.85		27.6	17.3	2.97		38	21.6	3.29						
	63.0 (17.2)††		17.1	14.4	0.43		13.3	12.1	0.53		14.2	13.2	0.7		14.6	13.7	1.02		20.4	17.3	1.87		25.6	21.4	2.98		35.4	26	3.28						
	57.0 (13.9)		16.5	15.5	0.44		13.1	12.3	0.54		14.2	13.2	0.7		14.3	14.2	1.02		19.7	18.5	1.88		24.6	23.2	2.97		32.6	30.6	3.27						
80 (26.7)	72.0 (22.2)	615	20.4	11.7	0.33	615	15.9	9.7	0.46	660	17	10.7	0.63	700	17.5	11.1	0.95	900	24.2	14	1.81	1100	30.4	17.2	2.96	1200	27.8	17	3.37						
	67.0 (19.4)		18.5	15.1	0.39		14.3	12.7	0.5		15.5	13.4	0.66		15.7	14.5	0.99		22	18.1	1.85		27.6	22.4	2.98		25.2	22.6	3.36						
	63.0 (17.2)††		17.7	16.6	0.41		14.1	13.3	0.51		15.3	14.2	0.67		15.4	15.3	1		21.2	19.9	1.87		26.4	24.8	2.98		25	23.4	3.38						
	57.0 (13.9)		17.7	16.6	0.41		14.1	13.3	0.51		15.3	14.2	0.67		15.4	15.3	1		21	19.8	1.85		26.4	24.8	2.99		24.8	23.4	3.36						

Detailed Cooling Capacities# - Cooling Efficiency Mode (Continued)

EVAPORATOR AIR °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																											
EDB	EWB	65.0 (18.3)			75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)			ID SCFM	Capacity MBtu/h†	Total Sys. KW**				
		ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**	ID SCFM	Capacity MBtu/h†		Total Sys. KW**		ID SCFM	Capacity MBtu/h†	Total Sys. KW**				
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡				Total	Sens‡				
27VNA360 Maximum Demand																													
75 (23.9)	72.0 (22.2)	1625	69	27.4	3.34	1725	68	27	3.59	1725	67	26.4	3.96	1725	65	25.4	4.5	1725	62	23.8	5.15	1725	57.5	21.6	5.8	1725	50	18.2	5.95
	67.0 (19.4)		62	35.4	3.35		61.5	35.6	3.62		60.5	35.2	3.96		58.5	34.2	4.47		56	32.4	5.12		52	29.8	5.73		45	25.8	5.84
	63.0 (17.2)††		57.5	41.5	3.4		56.5	42.5	3.62		55.5	42	3.94		54	41	4.46		51.5	39.5	5.07		48	36.4	5.69		41.5	31.8	5.8
	57.0 (13.9)		51.5	50.5	3.42		51	51	3.63		50.5	50.5	3.93		49.5	48.5	4.43		48	46	5.06		45	42	5.64		39.5	35.6	5.76
80 (26.7)	72.0 (22.2)	1625	69	35.4	3.35	1725	68	35.8	3.6	1725	66	35.2	3.91	1725	64.5	34.2	4.48	1725	61.5	32.6	5.13	1725	57	29.8	5.77	1725	49.5	25.8	5.92
	67.0 (19.4)		62	43	3.36		61	44	3.59		60	44	3.94		58.5	43	4.46		56	41	5.13		52	38	5.74		45.5	33.2	5.85
	63.0 (17.2)††		57.5	49.5	3.39		56.5	51	3.61		55.5	50.5	3.93		54.5	49.5	4.48		52	47.5	5.1		48.5	44.5	5.71		42.5	38	5.84
	57.0 (13.9)		54	54	3.39		54.5	54.5	3.63		54	53.5	3.95		53	52	4.46		51	49	5.07		48	44.5	5.69		42.5	38	5.84
27VNA360 Intermediate Demand																													
75 (23.9)	72.0 (22.2)	1000	37	15.1	1.3	1000	36.2	14.8	1.45	1000	35.6	14.5	1.65	1100	35.8	14.6	2.07	1260	36.4	14.7	2.67	1260	40	15.4	3.68	1260	34.6	13.1	3.88
	67.0 (19.4)		33.4	20	1.34		32.6	19.8	1.49		32	19.5	1.69		32.2	20.2	2.11		32.6	21	2.7		36	21.4	3.67		31.2	18.6	3.86
	63.0 (17.2)††		30.6	23.8	1.37		30	23.6	1.52		29.4	23.4	1.72		29.4	24.4	2.13		30	26	2.72		33.2	26.2	3.68		28.8	23	3.85
	57.0 (13.9)		28	28	1.4		27.6	27.6	1.54		27.2	27	1.74		28	27.4	2.15		29	28	2.72		31.4	29.2	3.66		27.8	25	3.85
80 (26.7)	72.0 (22.2)	1000	36.8	20	1.3	1000	36	19.9	1.44	1000	35.4	19.6	1.65	1100	35.6	20.2	2.07	1260	36.2	21.2	2.67	1260	40	21.6	3.69	1260	34.4	18.6	3.88
	67.0 (19.4)		33.2	24.8	1.34		32.4	24.8	1.48		31.8	24.6	1.69		32	25.8	2.11		32.6	27.4	2.7		35.8	27.4	3.66		31.2	24.2	3.87
	63.0 (17.2)††		30.8	28.6	1.37		30	28.6	1.51		29.4	28.6	1.71		30	29.4	2.13		31.2	30	2.71		33.6	31.4	3.66		29.8	26.8	3.86
	57.0 (13.9)		29.8	29.8	1.37		29.4	29.4	1.52		29	29	1.71		30	29.4	2.13		31.2	30	2.71		33.6	31.4	3.67		29.8	26.8	3.87
27VNA360 Minimum Demand																													
75 (23.9)	72.0 (22.2)	875	21.2	9.2	0.46	875	20.2	8.9	0.57	875	19.2	8.6	0.75	1000	19.4	8.8	1.08	1000	21.6	9.4	1.59	1000	30	11.7	2.74	1000	26.4	10.1	3.03
	67.0 (19.4)		19.3	13.6	0.53		18.3	13.4	0.64		17.3	13.1	0.8		17.4	13.9	1.13		19.3	14.4	1.64		26.8	16.5	2.75		23.8	14.5	3.04
	63.0 (17.2)††		18	17	0.58		17	16.8	0.68		16.2	16.1	0.84		16.6	16.3	1.14		18.2	17.5	1.66		24.6	20.2	2.77		21.8	17.9	3.04
	57.0 (13.9)		17.7	17.7	0.59		16.9	16.9	0.68		16.2	16.1	0.84		16.6	16.3	1.15		18.2	17.4	1.67		23.6	22	2.77		21.2	19.1	3.04
80 (26.7)	72.0 (22.2)	875	21	13.5	0.45	875	19.9	13.3	0.56	875	18.9	13	0.74	1000	19.1	14	1.07	1000	21.4	14.4	1.59	1000	29.8	16.6	2.74	1000	26.2	14.5	3.03
	67.0 (19.4)		19.2	17.8	0.53		18.3	17.7	0.63		17.5	16.6	0.79		17.9	17.5	1.11		19.6	18.8	1.63		26.8	21.4	2.76		23.6	18.9	3.03
	63.0 (17.2)††		18.8	18.8	0.54		18.1	18.1	0.64		17.4	17.3	0.8		17.9	17.5	1.11		19.6	18.8	1.63		25.4	23.8	2.77		22.8	20.4	3.04
	57.0 (13.9)		18.8	18.8	0.54		18.1	18.1	0.64		17.3	17.3	0.8		17.8	17.5	1.11		19.6	18.8	1.64		25.4	23.6	2.77		22.8	20.4	3.04

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur

† 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 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

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

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-08. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

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

EDB — Entering Dry Bulb

EWB — Entering Wet Bulb

INDOOR AIR °F (°C)		OUTDOOR ENTERING AIR TEMPERATURES °F (°C)																															
		-3 (-19.4)				7 (-13.9)				17 (-8.3)				27 (-2.8)				37 (2.7)				47 (8.3)				57 (13.9)				67 (19.4)			
		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**		ID SCFM	Capacity MBtuh	Total Sys. KW**	
27VNA336 Maximum Demand																																	
65 (18.3)	720	23	21	2.98	750	29.2	26.8	3.51	780	32.2	29.4	3.35	1030	37.8	33.6	3.34	1170	41	37.2	3.18	1005	35	35	2.44	1015	36.8	36.8	2.21	1000	40	40	2.09	
70 (21.1)		22.8	21	3.09		29	26.8	3.63		32	29.2	3.5		37.6	33.4	3.49		40.5	37	3.32		34.6	34.6	2.57		36.4	36.4	2.35		39.5	39.5	2.24	
75 (23.9)		22.6	21	3.25		29	26.6	3.79		31.8	29	3.64		37.4	33.2	3.65		40.5	36.6	3.51		34.2	34.2	2.71		36	36	2.48		39.5	39.5	2.4	
27VNA336 Intermediate Demand																																	
65 (18.3)	460	12.3	11.3	1.45	470	15.7	14.4	1.63	480	18.4	16.8	1.67	580	21.8	19.3	1.66	630	23.8	21.6	1.59	590	22.4	22.4	1.47	575	22.2	22.2	1.22	570	24	24	1.16	
70 (21.1)		12.2	11.2	1.54		15.5	14.2	1.71		18.2	16.6	1.75		21.4	19.1	1.72		23.6	21.4	1.68		22	22	1.54		22	22	1.31		23.6	23.6	1.22	
75 (23.9)		12	11	1.6		15.3	14	1.79		18	16.4	1.84		21.2	18.9	1.81		23.2	21.2	1.75		21.8	21.8	1.64		21.6	21.6	1.39		23.2	23.2	1.29	
27VNA336 Minimum Demand																																	
65 (18.3)	325	7.8	7.1	0.96	325	9.9	9.1	1.05	325	12.3	11.2	1.14	350	14.2	12.6	1.11	360	15.6	14.2	1.1	375	16.1	16.1	1.13	350	15	15	0.88	350	15.6	15.6	0.77	
70 (21.1)		7.6	7	1		9.7	8.9	1.09		12.1	11	1.2		14	12.4	1.17		15.4	14	1.16		15.9	15.9	1.19		14.8	14.8	0.94		15.4	15.4	0.83	
75 (23.9)		7.4	6.8	1.04		9.5	8.8	1.14		11.9	10.8	1.25		13.8	12.2	1.23		15.2	13.8	1.22		15.6	15.6	1.25		14.6	14.6	1		15.1	15.1	0.89	
27VNA348 Maximum Demand																																	
65 (18.3)	1600	31.4	29	3.93	1605	39	35.8	4.72	1585	43	39.5	4.2	1490	50	44	4.26	1325	56	51	4.61	1400	53	53	4.11	1400	58	58	4.15	1400	62	62	4.23	
70 (21.1)		31.2	28.8	4.12		39.5	36.2	4.71		43	39	4.44		49.5	44	4.45		55.5	50.5	4.84		52.5	52.5	4.32		57.5	57.5	4.39		61	61	4.45	
75 (23.9)		31	28.6	4.29		39.5	36	4.91		40	36.4	4.51		49	43.5	4.66		55	50	5.04		52	52	4.54		57	57	4.61		60.5	60.5	4.69	
27VNA348 Intermediate Demand																																	
65 (18.3)	870	20.8	19.1	2.54	890	27.2	25	2.89	930	30.2	27.6	2.77	895	31.4	27.8	2.41	845	26.2	23.8	1.73	870	26.2	26.2	1.65	870	28.6	28.6	1.64	870	33.4	33.4	1.7	
70 (21.1)		21	19.3	2.65		24.6	22.6	3.11		29.6	27	2.89		31	27.6	2.54		25.8	23.4	1.83		25.8	25.8	1.76		28.8	28.8	1.77					

INDOOR AIR °F (°C)		OUTDOOR ENTERING AIR TEMPERATURES °F (°C)																															
		-3 (-19.4)				7 (-13.9)				17 (-8.3)				27 (-2.8)				37 (2.7)				47 (8.3)				57 (13.9)				67 (19.4)			
		Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	ID SCFM	Capacity		Total Sys. KW**	
Total	Sens‡	Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡		Total
27VNA336 Maximum Demand																																	
65 (18.3)	1400	23.6	21.8	3.01	1400	29.2	27	3.34	1400	32.6	29.8	3.25	1400	38	34	3.3	1400	41	37.6	3.16	1400	35.6	35.6	2.47	1400	37.4	37.4	2.26	1400	41	41	2.15	
70 (21.1)		23.4	21.6	3.12		29.2	26.8	3.54		32.4	29.6	3.49		38	33.8	3.48		41	37.2	3.34		34.2	34.2	2.62		37.2	37.2	2.4		40.5	40.5	2.26	
75 (23.9)		23.4	21.4	3.27		29	26.6	3.66		32.2	29.4	3.55		37.8	33.6	3.64		40.5	37	3.49		35	35	2.76		36.8	36.8	2.54		40	40	2.39	
27VNA336 Intermediate Demand																																	
65 (18.3)	900	12.6	11.6	1.41	900	16	14.7	1.55	900	18.7	17.1	1.56	800	21	18.6	1.47	700	17	15.5	0.99	700	16.1	16.1	0.89	700	18.1	18.1	0.85	700	20	20	0.83	
70 (21.1)		12.4	11.4	1.48		15.8	14.5	1.63		18.5	16.9	1.64		20.6	18.4	1.55		16.7	15.2	1.05		15.9	15.9	0.96		17.8	17.8	0.92		20	20	0.91	
75 (23.9)		12.3	11.3	1.55		15.6	14.3	1.71		18.3	16.7	1.72		20.4	18.1	1.63		16.5	15	1.12		15.6	15.6	1.02		17.5	17.5	0.99		19.9	19.9	0.98	
27VNA336 Minimum Demand																																	
65 (18.3)	650	8	7.3	0.9	650	10.1	9.3	0.95	650	12.4	11.3	0.99	650	12.7	11.2	0.83	650	5.5	5	0.32	650	6.7	6.7	0.35	650	8.2	8.2	0.33	650	9.4	9.4	0.32	
70 (21.1)		7.8	7.2	0.94		9.9	9.1	1		12.2	11.2	1.05		12.4	11	0.88		5.4	4.9	0.35		6.2	6.2	0.38		8	8	0.37		9.4	9.4	0.36	
75 (23.9)		7.6	7	0.99		9.7	8.9	1.05		12	11	1.11		12.2	10.9	0.93		5.2	4.7	0.38		6.3	6.3	0.41		7.8	7.8	0.41		9.4	9.4	0.39	
27VNA348 Maximum Demand																																	
65 (18.3)	1600	26.8	24.6	3.27	1605	40.5	37.2	4.64	1565	43.5	39.5	4.25	1360	50	44.5	4.24	1325	56	51	4.61	1400	53	53	4.11	1400	58	58	4.15	1400	62	62	4.23	
70 (21.1)		26.2	24.2	3.4		40	37	4.77		43	39	4.47		49.5	44	4.45		55.5	50.5	4.84		48.5	48.5	3.82		57.5	57.5	4.39		61	61	4.45	
75 (23.9)		26	24	3.56		40	36.8	5.01		41	37.6	4.55		49	43.5	4.66		55	50	5.04		52	52	4.54		57	57	4.61		60.5	60.5	4.69	
27VNA348 Intermediate Demand																																	
65 (18.3)	1140	19.2	17.7	2.4	1140	27.2	25	2.83	1090	29.2	26.8	2.61	1020	29.8	26.4	2.22	1005	26.8	24.4	1.75	930	26	26	1.62	850	29.2	29.2	1.66	850	33.4	33.4	1.72	
70 (21.1)		19.4	17.8	2.56		27	24.8	2																									

NOTES:
 ** 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.
 ‡ 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.
 NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
 EDB — Entering Dry Bulb

Guide specifications

General

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

27VNA3

3 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, forward-swept blade propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of 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 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 units are 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. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron Advance™ (R-454B) refrigerant, 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, forward swept blade, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

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

Condenser Coil

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

Refrigeration Components

- Refrigeration circuit components will include liquid-line and vapor line front-seating shutoff valve with provisions for sweat or mechanical connections, system charge of Puron Advance™ (R-454B) refrigerant, PVE compressor oil, accumulator, electronic expansion valve, reversing valve, and pressure equalization valve.
- Unit will be equipped with high-pressure switch, suction and discharge pressure transducers, and filter drier for Puron Advance™ (R-454B) refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER2 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.
- Infinity® System Control with appropriate software version is required for full featured operation.

System Design Summary

1. System must be installed with factory approved R454B Indoor unit only.
2. Factory authorized dissipation control board must be installed with indoor unit.
3. Must use Infinity® System Control listed in pre-sale literature only
4. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
5. This product is qualified for low ambient cooling operation (below 55°F / 12.8°C) with an Infinity® System Control **ONLY**.
6. The maximum outdoor operating ambient in cooling mode is 125°F (51.7°C).
7. Minimum outdoor operating air temperature for heating mode is -13°F (-25°C).
8. For reliable operation, unit must be level in all horizontal planes.
9. 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 Long Line Guideline and Service Manual available from equipment distributor.
10. 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).
11. Use only copper wire for electrical connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
12. Do not apply capillary tube indoor coils to these units.
13. Factory-supplied filter drier must be installed.

