

25VNA8 Infinity® 18VS Variable Speed Heat Pump with Puron® Refrigerant



Product Data



The Infinity® 18VS heat pump offers high-efficiency variable speed performance in a remarkably small cabinet and provides up to 11 HSPF heating efficiency and up to 19 SEER cooling efficiency. The variable speed inverter capacity control delivers up to 5 stages of operation for exceptional load matching, dehumidification and zoning performance.

This product has been designed and manufactured to provide flexible system matching and work with a wide variety of indoor units and controls.

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

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- Up to 19 SEER /13.0 EER / 11 HSPF
- Microtube Technology™ refrigeration system

Sound

- Sound level as low as 55 dBA (Silencer System II™) in low speed operation
- Soft start and smooth ramp to operating speeds

Comfort

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25-100%
- Air cooled Inverter variable speed drive
 - System requires Infinity® Touch Control for 5-stage operation (Requires version 11 or newer software on sizes 24 - 60 and version 12 or newer software on size 13.)
 - Ratings provided with 2-stage thermostats and suitable non-communicating indoor products for 2-stage operation

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost
- Front-seating service valves
- Inverter control drives compressor and fan motor
- No control module attached to fan motor
- Pressure equalizer valve for easy compressor starting
- High pressure switch
- Suction pressure transducer
- Electronic expansion valve (EXV) for heating, TXV for cooling
- Compressor discharge temperature sensor
- Suction temperature sensor
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:

- 2 control wires to outdoor unit in complete Infinity® system and Touch Control
- Energy Tracking capability with the Infinity® Touch Control (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity® system.)
- Smaller and lighter than 2-stage units
- Minimum and Maximum adjustments with Infinity® Touch Control
- Hybrid Heat® dual fuel capable
- Compatible with non-communicating thermostats

Durability

WeatherArmor Ultra™ protection package:

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

Applications

- Line sets up to 100 ft (30.5 m) equivalent length
- No long-line accessories required

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	5	V	N	A	8	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series		
25 = HP	V = VS HP	N= Infinity Series	A = Puron	8 = 18 SEER	1,000 Btuh (nominal)	A = Standard B = Design Variation	0=Not Defined	0=Not Defined	3=208/230-1	0, 1, 2...		



Qualifying Models Only



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



ISO 9001
OMI-SMI Global



STANDARD FEATURES

FEATURES	Unit Size 25VNA8						
	13	24B	25	36	37	48	60
Puron® Refrigerant	X	X	X	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X	X	X	X
Air-Cooled Integrated Inverter Drive	X	X	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X	X	X	X
Suction Pressure Transducer	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X
Internal Crankcase Heater	X	X	X	X	X	X	X
Utility Interface Connections	X	X	X	X	X	X	X
Enhanced Diagnostics with Infinity® Touch Control (Version 11 or newer software on sizes 24 - 60 and version 12 or newer software on size 13.)	X	X	X	X	X	X	X
Energy Tracking Capability with Infinity® Touch Control (requires software version 11 or later)	X	X	X	X	X	X	X
Deluxe Sound Blanket	X	X	X	X	X	X	X
Outdoor Air Temperature Sensor	X	X	X	X	X	X	X

X = Standard

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps can vary 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 indoor 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	100 (30.5)	100 (30.5)	N/A
Outdoor unit ABOVE indoor unit	100 (30.5)	100 (30.5)	100 (30.5)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

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

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	HP with Puron® 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)
1–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
2–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
3–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
4–Ton	3/8	100*	100*	100*	100*	100	100	--
5–Ton	3/8	100*	100*	100*	100*	100	100	--

* Maximum actual length not to exceed 100 ft (30.5 m)

† Total equivalent length accounts for losses due to elbows or fitting.

-- = outside acceptable range

LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories.

Longer line set applications are not permitted.

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in.)	25VNA8 Cooling Capacity Loss (%)				
		Total Equivalent Line Length (ft)				
		25	50	75	80	100
13	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
24B	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
25	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
37 48	3/4	0.7	1.6	2.4	2.6	3.2
	7/8	0.3	0.7	1.1	1.2	1.6
	1 1/8	0.0	0.1	0.2	0.3	0.4
60	3/4	1.0	2.3	3.5	3.8	4.8
	7/8	0.4	1.0	1.7	1.8	2.3
	1 1/8	0.0	0.1	0.3	0.4	0.5

Rating Line Size in **BOLD**

EQUIPMENT SIZING GUIDELINES

If primary load is cooling, size the same as any other air conditioning system. If primary load is heating, use the chart below for maximum size for heating.

MAXIMUM RECOMMENDED EQUIPMENT SIZE - HEATING

COOLING LOAD (tons)	MAXIMUM RECOMMENDED EQUIPMENT SIZE FOR HEATING*
1	24
1.5	24
2	36
2.5	36
3	48
3.5	60
4	60
5	60

* Make sure duct work is capable of delivering required airflow . Make sure combination rating exists for desired indoor and outdoor combination.

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 compressor stage can be adjusted from these numbers in the Infinity® Control Heat Pump Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Stage 5 Airflow	Max Stage 1 Airflow	
1 –Ton	420	300	300
2 –Ton	739	300	300
3 –Ton	990	300	300
4 –Ton	1389	542	457
5 –Ton	1600	700	600

Cooling – Efficiency Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1 –Ton	420	300
2 –Ton	825	585
3 –Ton	1050	600
4 –Ton	1400	875
5 –Ton	1800	975

Heating – Comfort Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1 –Ton	409	300
2 –Ton	819	300
3 –Ton	1014	300
4 –Ton	1550	429
5 –Ton	1600	500

Heating – Efficiency Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1 –Ton	600	300
2 –Ton	825	585
3 –Ton	1200	700
4 –Ton	1600	1000
5 –Ton	1600	900

Cooling Max Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1 –Ton (550 cfm/ delivered ton)	780	434
2 –Ton (24)	850	585
2 –Ton (25) (550 cfm/ delivered ton)*	1350	510
3 –Ton	1200	600
4 –Ton	1600	875
4 –Ton –49	1450	875
5 –Ton	2000	975

Heating Max Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1 –Ton (550 cfm/ delivered ton)	600	300
2 –Ton (24)	850	585
2 –Ton (25) (550 cfm/ delivered ton)*	850	585
3 –Ton	1200	700
4 –Ton	1600	1000
5 –Ton	2000	900

* Serial number beginning with 0115E and newer

LEGEND::

Max Capacity Airflow – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non-zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

Highest Min. Capacity Airflow – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

Min Cooling (Dehum or Zoning) – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut-back.

PHYSICAL DATA

UNIT SIZE SERIES	13-30	24B-30	25-31	36-31	37-30	48-30	60-30
Compressor Type	Variable Speed Rotary						
REFRIGERANT	Puron® (R-410A)						
Control	TXV (Puron® Hard Shutoff)						
Charge lb (kg)	5.00 (2.27)	5.40 (2.45)	6.38 (2.89)	6.38 (2.89)	7.5 (3.40)	8.30 (3.76)	8.60 (3.90)
Outdoor Htg Exp. Device	EXV						
COND FAN	Forward Swept Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1600	2080	2500	2500	3800	4500	4500
Motor HP	1/5	1/5	1/3	1/3	1/3	1/3	1/3
Motor RPM	650	825	1050	1050	750	850	900
COND COIL							
Face Area (Sq ft)	11.12	11.12	13.90	13.90	21.50	21.50	23.65
Fins per In.	20	20	20	20	20	20	20
Rows	1	1	1	1	1	1	1
Circuits	5	5	6	6	8	8	8
VALVE CONNECT. (In. ID)							
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8
Liquid	3/8						
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8
Max Liquid Line	3/8						

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

Note: See unit Installation Instruction for proper installation.

ELECTRICAL DATA

UNIT SIZE - VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE ** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
13-30	208-230-1	253	197	N/A	10.32	0.58	13.5	20
24B-30				N/A	10.32	0.58	13.5	20
25-31				N/A	17.70	1.20	23.6	40
36-31				N/A	18.30	1.20	24.4	40
37-30				N/A	19.60	1.20	26.0	40
48-30				N/A	23.90	1.20	31.4	50
60-30				N/A	31.30	1.40	40.8	60

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

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

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

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - VOLTAGE, SERIES	
13-30	If a Touch Control is installed, subcooling recommendation displayed in Charging Mode must be followed. If not, subcooling chart shown on the charging label must be followed
24-30	
25-31	
36-31	
37-30	
48-30	
60-30	

SOUND POWER LEVEL (dBA)

Unit Size – Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling	Max Speed Heating
013–30	Freq (Hz)	1500 RPM	2600 RPM	3900 RPM
	125	62.0	64.0	72.0
	250	61.0	59.5	66.0
	500	54.0	55.0	63.5
	1000	53.0	57.0	59.5
	2000	49.0	50.0	56.0
	4000	42.0	49.5	55.0
	8000	47.5	49.5	55.0
	Sound Rating (dBA)	59	63	67
024B–30	Freq (Hz)	1500 RPM	4700 RPM	5400 RPM
	125	63.0	67.5	73.5
	250	57.0	66.5	66.5
	500	51.5	61.5	66.0
	1000	47.5	58.0	59.0
	2000	41.5	54.5	56.5
	4000	38.0	57.5	59.5
	8000	45.5	53.5	55.0
	Sound Rating (dBA)	55	67	68
025–31	Freq (Hz)	1200 RPM	3300 RPM	4800 RPM
	125	59.5	70.0	68.5
	250	56.0	67.5	67.0
	500	54.0	67.5	65.0
	1000	50.0	63.5	62.0
	2000	41.5	59.0	59.0
	4000	35.0	58.0	63.0
	8000	48.0	51.5	55.0
	Sound Rating (dBA)	55	69	71
036–31	Freq (Hz)	1200 RPM	4800 RPM	5400 RPM
	125	59.5	70.0	69.0
	250	56.0	68.0	70.0
	500	54.0	66.0	66.0
	1000	50.0	64.0	64.0
	2000	41.5	61.5	60.5
	4000	35.0	62.0	61.0
	8000	48.0	55.5	56.0
	Sound Rating (dBA)	55	72	71
037–30	Freq (Hz)	1200 RPM	3000 RPM	4800 RPM
	125	64.0	74.0	75.5
	250	61.0	68.0	70.5
	500	57.5	66.5	68.0
	1000	53.5	61.5	63.5
	2000	49.0	59.5	61.0
	4000	42.0	57.5	63.5
	8000	44.0	51.0	55.5
	Sound Rating (dBA)	60	69	72
048–30	Freq (Hz)	1500 RPM	4320 RPM	5400 RPM
	125	67.0	73.5	69.0
	250	63.0	71.5	68.5
	500	57.0	69.5	66.5
	1000	54.5	64.5	64.0
	2000	51.0	62.5	61.5
	4000	54.0	62.5	64.5
	8000	47.5	54.5	60.0
	Sound Rating (dBA)	64	72	73
060–30	Freq (Hz)	1200 RPM	4140 RPM	5400 RPM
	125	61.5	71.5	70.5
	250	59.5	73.0	71.5
	500	54.5	70.0	68.0
	1000	50.5	65.0	62.5
	2000	44.0	62.0	60.0
	4000	41.5	60.5	62.0
	8000	49.0	58.0	61.5
	Sound Rating (dBA)	57	72	71

NOTE: Tested in compliance with AHRI 270–1995 but not listed with AHRI.

RPM-CAPACITY-SOUND (dBA)*

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
25VNA813			
COOLING			
1	1500	58%	59
2	1867	72%	60
3	2100	81%	61
4	2350	90%	62
5	2600	100%	63
HEATING			
1	1500	38%	55
2	2300	59%	60
3	2450	63%	64
4	2600	67%	65
5	3900	100%	67
25VNA824B			
COOLING			
1	1500	35%	55
2	2566	56%	60
3	3150	69%	65
4	3950	87%	66
5	4700	100%	67
HEATING			
1	1500	29%	55
2	2800	53%	59
3	3150	59%	62
4	4700	88%	65
5	5400	100%	68
25VNA825			
COOLING			
1	1200	38%	55
2	1900	58%	60
3	2400	73%	62
4	2600	79%	66
5	3300	100%	69
HEATING			
1	1200	25%	55
2	2400	50%	60
3	3300	69%	62
4	4200	88%	68
5	4800	100%	71
25VNA836			
COOLING			
1	1200	25%	55
2	2400	50%	61
3	3300	69%	65
4	4200	88%	69
5	4800	100%	72
HEATING			
1	1200	22%	55
2	2600	48%	60
3	3400	63%	63
4	4800	89%	69
5	5400	100%	71
25VNA837			
COOLING			
1	1200	25%	60
2	1800	60%	61
3	2200	73%	67
4	2600	87%	67
5	3000	100%	69
HEATING			
1	1200	25%	60
2	2400	50%	67
3	2700	56%	68
4	3000	63%	69
5	4800	100%	72

*Estimated sound for stages 2, 3, and 4

*For 2-stage operation: Cooling Low = Stage 2, Heating low = Stage 3; both cooling and heating High = Stage 5

RPM-CAPACITY-SOUND (dBA)* continued

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
25VNA848			
COOLING			
1	1500	35%	64
2	2460	57%	67
3	2800	65%	68
4	3650	84%	70
5	4320	100%	72
HEATING			
1	1500	28%	64
2	2800	52%	67
3	3300	61%	68
4	4320	80%	71
5	5400	100%	73
25VNA860			
COOLING			
1	1200	32%	57
2	2180	55%	61
3	2850	70%	65
4	3700	90%	68
5	4140	100%	72
HEATING			
1	1200	25%	57
2	2600	50%	51
3	3200	61%	65
4	4140	88%	69
5	5400	100%	71

*Estimated sound for stages 2, 3, and 4

*For 2-stage operation: Cooling Low = Stage 2, Heating low = Stage 3; both cooling and heating High = Stage 5

CONTROLS

SYSTXCCITN01*	Infinity® Touch Control (non-Wi-Fi) (software version 11 or newer on unit sizes 24 – 60; version 12 or newer on size 13)
SYSTXCCITC01*	Infinity® Touch Control (Wi-Fi) (software version 11 or newer on unit sizes 24 – 60; version 12 or newer on size 13)
SYSTXCCITW01*	Infinity® Touch Control with Wi-Fi & Wireless Access Point
SYSTXCC4ZC01	Infinity® 4-Zone Damper Control Module
SYSTXCCSMS01	Infinity® Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCNIM01	Infinity® Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)
SYSTXCCSMS01	Infinity® Smart Sensor

* Requires version 11 software or newer on sizes 24 – 60 and version 12 software or newer on size 13.

THERMOSTATS

PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT PUMP	HYBRID HEAT	HEAT	COOL
TP-PRH01-A	7-Day	√	√	√	√	3	2
TP-PHP01	7-Day		√	√		3	2
TP-NRH01-A	NP	√	√	√	√	3	2
TP-NHP01	NP		√	√		3	2

ACCESSORIES

Accessory Number	Description	13	24B	25	36	37	48	60
HK70EZ015	MODEL PLUG FOR FV4(A,B), FK, 40FK	N/A	X					
HK70EZ016	MODEL PLUG FOR FV4(A,B), FK, 40FK			X				
HK70EZ017	MODEL PLUG FOR FV4(A,B), FK, 40FK				X	N/A		
HK70EZ018	MODEL PLUG FOR FV4(A,B), FK, 40FK						X	
HK70EZ019	MODEL PLUG FOR FV4(A,B), FK, 40FK							X
KHASS0606MPK	SNOW STAND KIT							X
KSASF0201AAA	SUPPORT FEET KIT	X	X	X	X	X	X	X
KSATX0201PUR	TXV KIT	X	X	X				
KSATX0301PUR	TXV KIT				X	X		
KSATX0401PUR	TXV KIT						X	
KSATX0501PUR	TXV KIT							X
KSBTX0201PUR	TXV KIT			X				
KSBTX0301PUR	TXV KIT				X	X		
KSBTX0401PUR	TXV KIT						X	
LM10KK003	VAPOR LINE MUFFLER	X	X	X	X	X	X	X

x = Accessory

Accessory Description and Usage

Model Plug - FV4(A,B), FK, 40FK

Replaces production model plug in outdoor unit and adjusts compressor speed in heating mode to match indoor airflow.

Usage Guideline:

Required when using heat pump in replacement applications with FV4(A,B), FK4, 40FK fan coil indoor unit.

Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended in cold climates where snow can accumulate around unit. Allows improved base pan drainage.

Recommended for rooftop applications.

Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Required if indoor unit does not already contain Puron refrigerant TXV

Vapor Line Muffler

An external muffler installed in the vapor line to minimize vibration transmitted through refrigerant lines

Usage Guideline:

Recommended if vapor line is not installed per recommendations in the installation instructions and vibration may be transmitted into the structure.

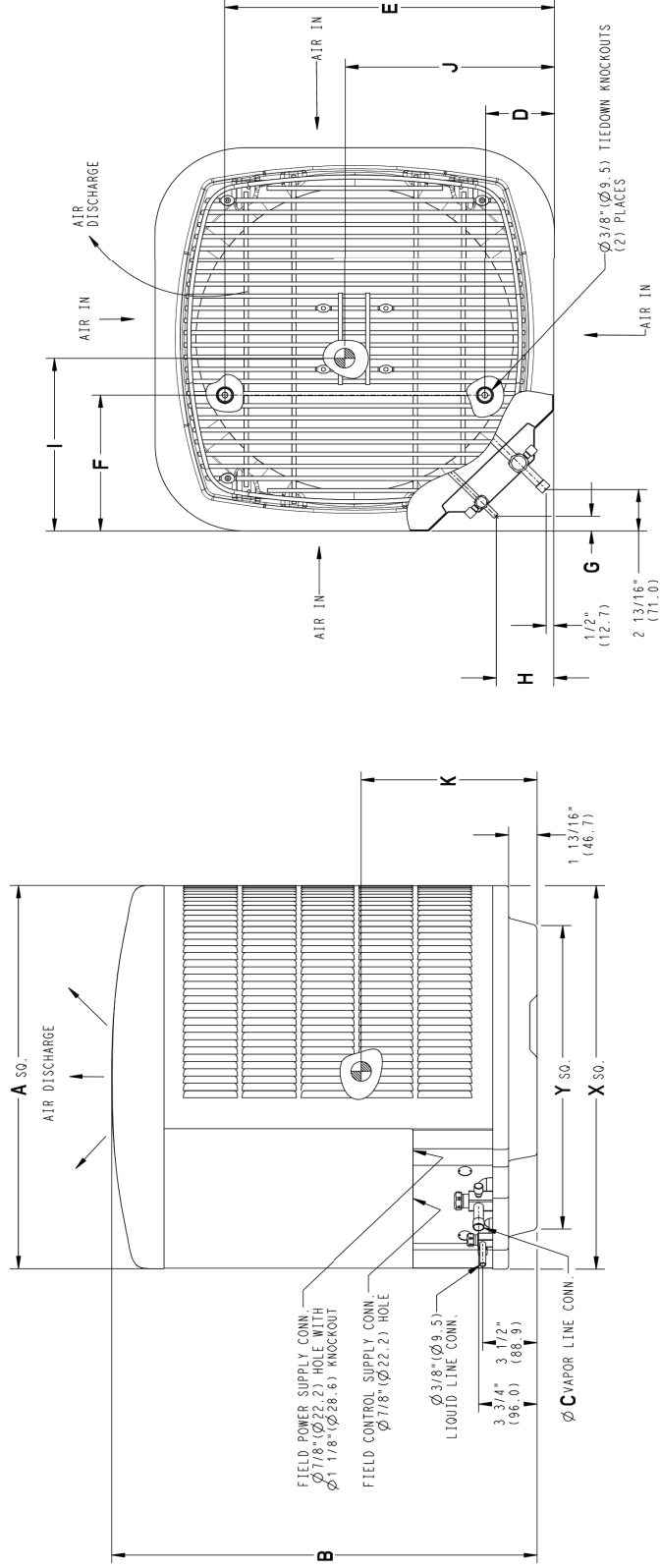
DIMENSIONS

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
25VNA819A030050	0	Y N N N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	139	63.0	162	73.5	25 1/4	641.5	36 9/16	929.5
25VNA824B030050	0	Y N N N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	139	63.0	162	73.5	25 1/4	641.5	36 9/16	929.5
25VNA825A0301050	1	Y N N N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	164	74.4	190	86.2	25 1/4	641.5	43 3/8	1102.2
25VNA836A0301050	1	Y N N N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	164	74.4	190	86.2	25 1/4	641.5	43 3/8	1102.2
25VNA837A0300050	0	Y N N N	31 3/16	792.5	39 3/8	1000.5	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	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	218	98.9	257	116.6	33 5/16	846.6	45 1/4	1149.1
25VNA849A0300050	0	Y N N N	31 3/16	792.5	39 3/8	1000.5	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	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	218	98.9	257	116.6	33 5/16	846.6	45 1/4	1149.1
25VNA860A0300050	0	Y N N N	31 3/16	792.5	42 13/16	1086.9	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	16 1/2	419.1	15	381.0	20	508.0	245	111.1	286	129.7	33 5/16	846.6	48 1/4	1224.8

Y=YES
N=NO

NOTES:

1. CENTER OF GRAVITY

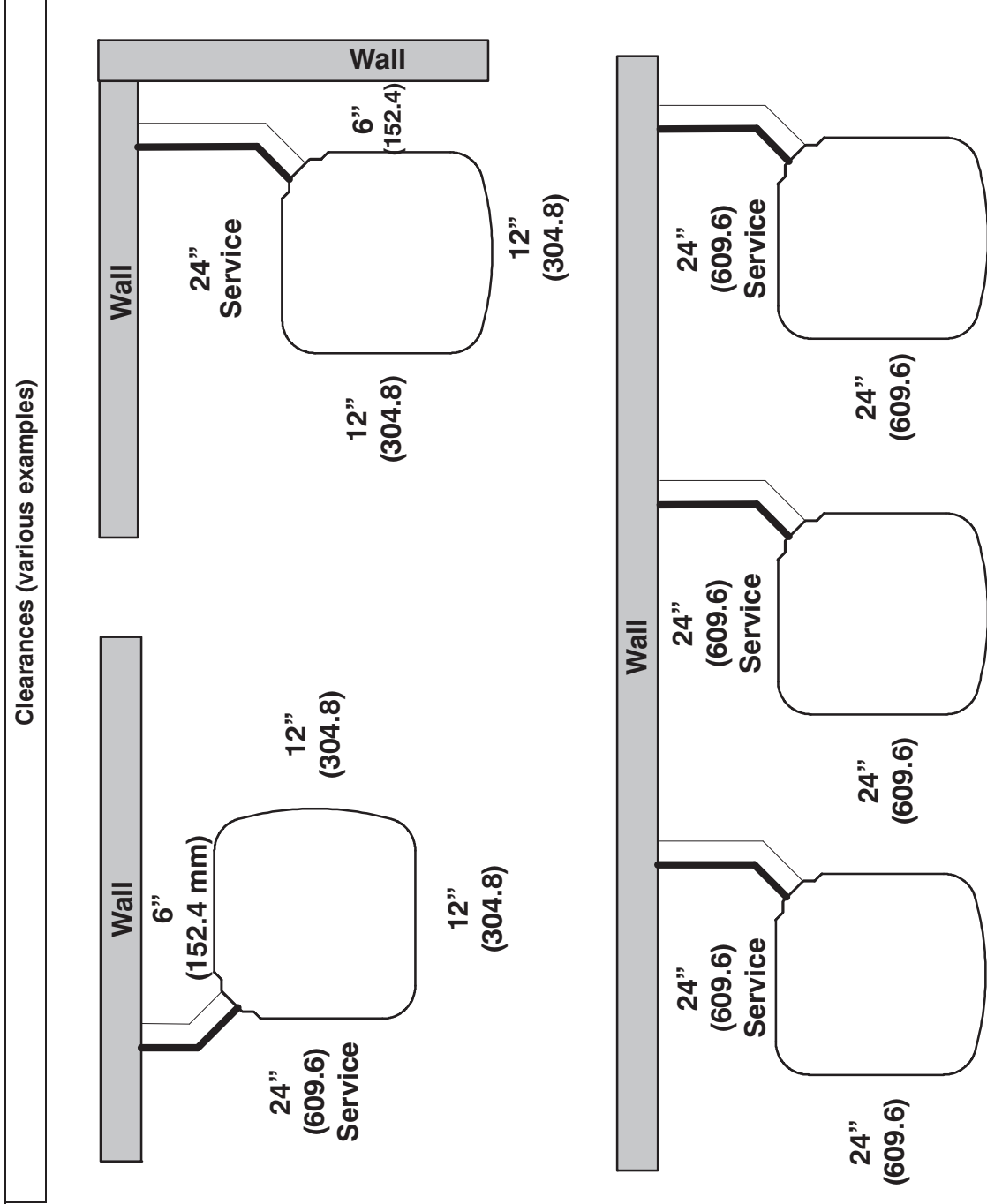


UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
	INCH	MM	INCH	MM
13,24,25,36	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
37,48,60	31 3/16	792.5	22 15/16	583.2
-	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

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

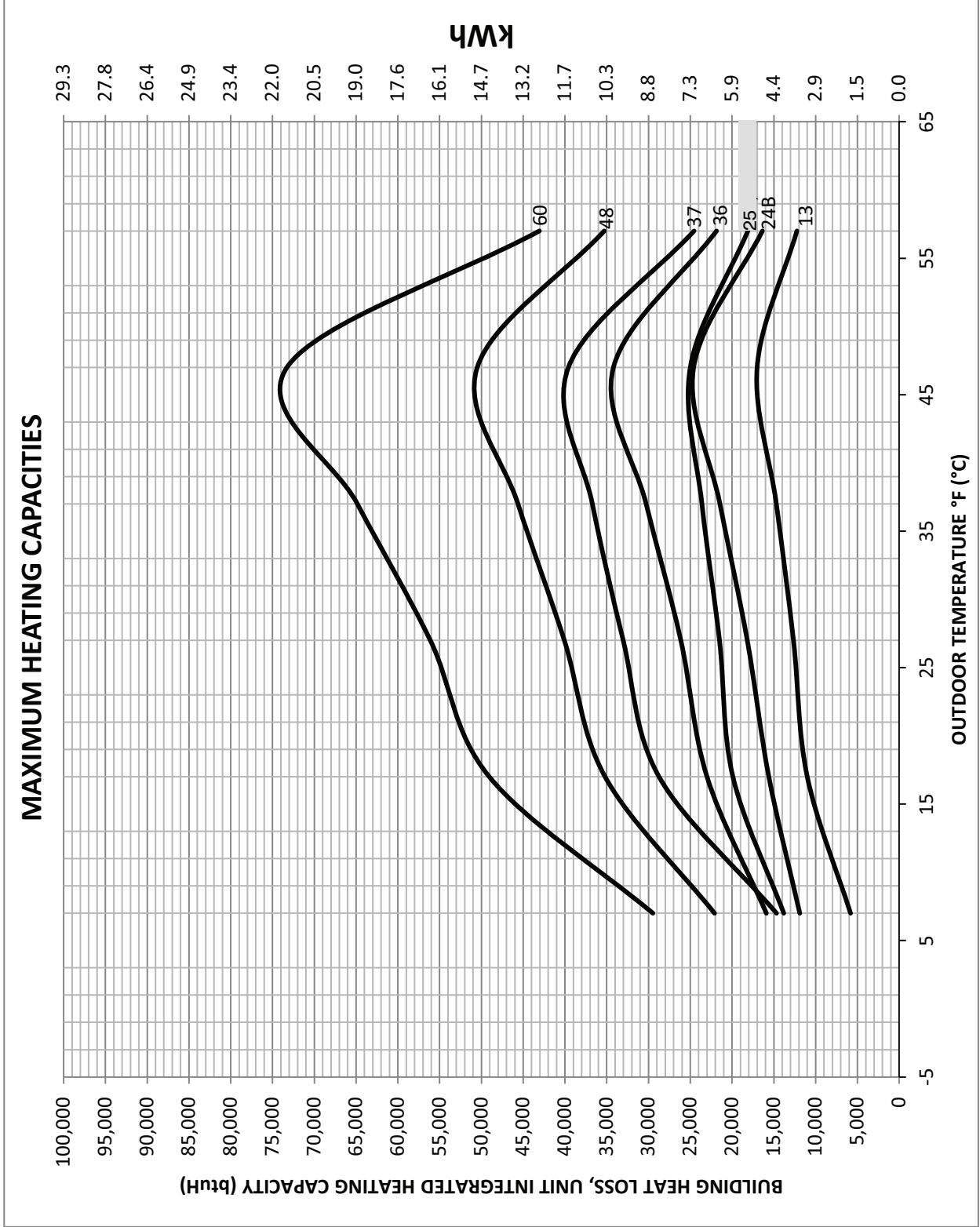
CLEARANCES



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.

25VNA8 BALANCE POINT WORKSHEET



TESTED AHRI COMBINATION RATINGS*

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

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

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

Outdoor Model	Indoor Model	Furnace Model	Cooling				Heating				
			Cooling Cap.	SEER	EER	ID CFM	High Temp		Low Temp		
							Capacity 47°F (8° C)	COP	Capacity 17°F (-8° C)	COP	
25VNA813A*030*	FE4ANF002L+UI		13,000	17.0	13.0	420	9.5	17,000	3.68	11,000	2.70
25VNA824B*030*	FE4ANF002L+UI		24,000	17.5	11.0	825	9.5	24,400	3.62	15,600	2.58
25VNA825A*031*	FE4AN(B,F)005L+UI		24,000	18.0	12.5	825	10.0	26,800	3.56	19,900	2.58
25VNA836A*031*	FE4AN(B,F)005L+UI		34,200	17.5	10.0	1,050	10.0	34,200	3.56	23,000	2.58
25VNA837A*030*	FE4ANB006L+UI		33,600	19.0	13.0	1,050	10.0	40,000	3.50	30,400	2.66
25VNA848A*030*	FE4AN(B,F)005L+UI		46,000	18.0	11.0	1,400	11.0	50,500	3.44	35,200	2.66
25VNA860A*030*	FE4ANB006L+UI		57,000	17.0	10.0	1,600	9.0	60,000	3.10	44,500	2.48

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

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

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

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

COP — Coefficient of Performance

EER — Energy Efficiency Ratio

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

UI — User Interface

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

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

EDB °F (°C)	25VNA13 / FEANF002 Efficiency Mode Condenser Entering Air Temperature °F (°C)												85 (29.3)												65 (18.3)											
	115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)															
	EWB °F (°C)	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**											
75 (23.9)	72 (22.2)		12.74	5.30	1.38		13.71	5.65	1.19		14.50	5.94	1.00		15.45	6.29	0.83		16.38	6.64	0.67		17.29	6.99	0.52											
	67 (19.4)	420	11.44	7.29	1.37	420	13.04	8.33	0.84	420	13.89	8.33	0.84	420	14.79	8.69	0.68	420	15.54	9.05	0.54															
	63 (17.2)		10.49	8.85	1.36		11.29	9.22	1.18		11.96	9.85	1.00		12.75	10.29	0.70		13.51	10.29	0.70		14.25	10.65	0.56											
	57 (13.9)		9.91	9.91	1.35		10.53	10.53	1.18		11.06	11.06	1.00		11.65	11.65	0.85		12.22	12.22	0.71		12.76	12.76	0.59											
	72 (22.2)		12.69	7.35	1.38		13.66	7.70	1.19		14.45	8.02	1.00		15.39	8.38	0.83		16.32	8.75	0.67		17.23	9.10	0.52											
80 (26.7)	67 (19.4)	420	11.41	9.30	1.37	420	12.28	9.68	1.19	420	13.00	10.01	1.00	420	13.85	10.38	0.84	420	14.69	10.76	0.68	420	15.50	11.13	0.54											
	63 (17.2)		10.64	10.64	1.36		11.32	11.22	1.18		11.99	11.57	1.00		12.76	11.96	0.84		13.51	12.35	0.70		14.25	12.72	0.56											
	57 (13.9)		10.62	10.62	1.36		11.26	11.26	1.18		11.82	11.82	1.00		12.44	12.44	0.84		13.04	13.04	0.70		13.61	13.61	0.57											
	72 (22.2)		9.96	4.09	1.02		10.76	4.39	0.91		12.08	5.08	0.78		12.96	5.39	0.66		13.82	5.71	0.55		14.66	6.02	0.43											
	67 (19.4)	300	8.90	5.49	1.02	300	9.61	5.79	0.92	420	10.82	7.08	0.79	420	11.60	7.40	0.68	420	12.37	7.75	0.57	420	13.11	8.08	0.47											
80 (26.7)	63 (17.2)		8.15	6.80	1.02		8.80	6.90	0.92		9.92	8.66	0.80		10.62	9.00	0.69		11.31	9.34	0.59		11.98	9.68	0.49											
	57 (13.9)		7.57	7.57	1.01		8.06	8.06	0.92		9.50	9.50	0.80		10.06	10.06	0.70		10.60	10.60	0.61		11.12	11.12	0.52											
	72 (22.2)		9.93	5.54	1.02		10.72	5.85	0.91		12.03	7.15	0.78		12.90	7.49	0.66		13.76	7.82	0.55		14.61	8.15	0.43											
	67 (19.4)	300	8.87	6.93	1.02	300	9.58	7.25	0.92	420	10.79	9.12	0.79	420	11.57	9.48	0.68	420	12.33	9.83	0.57	420	13.08	10.18	0.47											
	57 (13.9)		8.10	8.10	1.02		8.82	8.35	0.92		10.21	10.21	0.80		10.81	10.81	0.69		11.39	11.37	0.59		12.04	11.75	0.49											
75 (23.9)	72 (22.2)		8.18	3.29	0.84		8.84	3.55	0.77		8.08	3.43	0.51		8.77	3.68	0.44		9.45	3.93	0.36		10.13	4.19	0.28											
	67 (19.4)	200	7.31	4.21	0.83	200	7.89	4.47	0.77	300	7.22	4.87	0.51	300	7.84	5.14	0.45	300	8.45	5.41	0.38	300	9.04	5.68	0.31											
	63 (17.2)		6.67	4.93	0.83		7.20	5.20	0.77		6.61	6.00	0.51		7.17	6.29	0.46		7.71	6.57	0.40		8.24	6.84	0.33											
	57 (13.9)		5.91	5.91	0.82		6.30	6.26	0.77		6.42	6.42	0.51		6.87	6.87	0.46		7.31	7.31	0.41		7.71	7.71	0.35											
	72 (22.2)		8.17	4.23	0.84		8.82	4.52	0.77		8.03	4.91	0.51		8.72	5.18	0.44		9.41	5.45	0.36		10.09	5.73	0.28											
80 (26.7)	67 (19.4)	200	7.29	5.16	0.83	200	7.87	5.44	0.77	300	7.21	6.33	0.51	300	7.82	6.63	0.45	300	8.43	6.92	0.38	300	9.02	7.21	0.31											
	63 (17.2)		6.68	5.85	0.83		7.19	6.16	0.77		6.92	6.92	0.51		7.41	7.41	0.46		7.87	7.87	0.39		8.31	8.31	0.33											
	57 (13.9)		6.31	6.31	0.82		6.71	6.71	0.77		6.91	6.91	0.51		7.40	7.40	0.46		7.85	7.85	0.40		8.31	8.31	0.33											
	72 (22.2)		9.96	4.09	1.02		10.76	4.39	0.91		12.08	5.08	0.78		12.96	5.39	0.66		13.82	5.71	0.55		14.66	6.02	0.43											
	67 (19.4)	300	8.90	5.49	1.02	300	9.61	5.79	0.92	420	10.82	7.08	0.79	420	11.60	7.40	0.68	420	12.37	7.75	0.57	420	13.11	8.08	0.47											

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	25VNA824B / FE4ANF002L Efficiency Mode Condenser Entering Air Temperature °F (°C)																			
		115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)				
		ID SCFM	Capacity MBtuh Total	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW**		
75 (23.9)	72 (22.2)	825	23.99	9.99	3.08	825	25.38	10.48	2.68	825	26.51	10.88	2.31	825	27.76	11.32	1.97	825	28.92	11.74	1.65
	67 (19.4)		21.78	14.06	3.03		23.03	14.51	2.64		24.07	14.89	2.29		25.19	15.30	1.95		26.23	15.68	1.65
	63 (17.2)		20.14	17.25	2.99		21.29	17.68	2.61		22.25	18.03	2.26		23.28	18.42	1.94		24.25	18.78	1.65
	57 (13.9)		19.20	19.20	2.96		20.07	20.07	2.59		20.78	20.78	2.25		21.53	21.53	1.93		22.23	22.23	1.65
	72 (22.2)		23.92	14.05	3.08		25.31	14.51	2.68		26.44	14.88	2.31		27.69	15.29	1.97		28.85	15.69	1.65
80 (26.7)	67 (19.4)	825	21.71	18.07	3.03	825	22.96	18.50	2.64	825	24.00	18.85	2.29	825	25.12	19.23	1.95	825	26.16	19.59	1.65
	63 (17.2)		20.49	20.49	3.00		21.42	21.42	2.62		22.32	21.83	2.27		23.31	22.27	1.94		24.26	22.63	1.65
	57 (13.9)		20.46	20.46	3.00		21.38	21.38	2.62		22.11	22.11	2.26		22.90	22.90	1.94		23.62	23.62	1.65
	72 (22.2)		14.71	6.31	1.53		16.06	6.81	1.40		17.24	7.25	1.24		18.61	7.76	1.10		20.01	8.28	0.95
	67 (19.4)		13.26	9.12	1.52		14.47	9.68	1.40		15.56	10.19	1.25		16.82	10.77	1.11		18.08	11.35	0.97
75 (23.9)	63 (17.2)	650	12.21	11.32	1.52	650	13.33	11.93	1.40	650	14.34	12.51	1.25	650	15.50	13.13	1.12	650	16.65	13.77	0.98
	57 (13.9)		11.92	11.92	1.51		12.87	12.87	1.40		13.73	13.73	1.25		14.68	14.68	1.12		15.62	15.62	0.99
	72 (22.2)		14.65	9.16	1.53		16.00	9.72	1.40		17.18	10.22	1.24		18.55	10.80	1.10		19.95	11.38	0.95
	67 (19.4)		13.23	11.93	1.52		14.43	12.55	1.40		15.52	13.13	1.25		16.77	13.77	1.11		18.02	14.42	0.97
	63 (17.2)		12.80	12.80	1.52		13.80	13.80	1.40		14.71	14.71	1.25		15.72	15.72	1.11		16.74	16.71	0.98
75 (23.9)	57 (13.9)	650	12.78	12.78	1.52	650	13.78	13.78	1.40	650	14.68	14.68	1.25	650	15.69	15.69	1.12	650	16.69	16.69	0.98
	72 (22.2)		10.98	4.91	1.02		12.29	5.41	1.00		13.78	6.15	0.95		15.69	7.00	0.85		17.68	8.17	0.79
	67 (19.4)		9.86	7.42	1.02		11.05	8.01	1.00		12.29	8.62	0.42		14.68	9.55	0.36		16.69	10.68	0.30
	63 (17.2)		9.15	9.15	1.02		10.29	9.90	1.00		11.43	10.63	0.43		13.78	11.55	0.38		15.69	12.68	0.33
	57 (13.9)		9.13	9.13	1.02		10.15	10.15	1.00		11.30	10.15	0.43		13.78	11.30	0.39		15.69	12.68	0.35
80 (26.7)	72 (22.2)	650	10.93	7.45	1.02	650	12.27	8.08	1.00	650	13.78	8.86	0.42	650	15.69	9.50	0.36	650	17.68	10.68	0.30
	67 (19.4)		9.88	9.86	1.02		11.12	10.63	1.00		12.27	11.12	0.43		14.68	12.27	0.37		16.69	13.78	0.32
	63 (17.2)		9.88	9.86	1.02		10.95	10.95	1.00		12.27	10.95	0.43		14.68	12.27	0.37		16.69	13.78	0.32
	57 (13.9)		9.85	9.85	1.02		10.94	10.94	1.00		12.27	10.94	0.43		14.68	12.27	0.37		16.69	13.78	0.32
	72 (22.2)		10.93	7.45	1.02		12.27	8.08	1.00		13.78	8.86	0.42		15.69	9.50	0.36		17.68	10.68	0.30

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAIR AIR °F (°C)	25VNA8257 FEANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)												65 (18.3)											
		115 (46.1)				105 (40.5)				95 (35)						85 (29.4)				75 (23.9)					
		ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. kW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. kW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. kW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. kW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. kW**				
75 (23.9)	72 (22.2)		23.61	9.88	2.53		25.24	10.47	2.23		26.64	10.98	1.92		28.18	11.54	1.66		29.67	12.09	1.41		31.12	12.64	1.18
	67 (19.4)		21.33	13.74	2.50		22.80	14.32	2.22		24.06	14.87	1.92		25.46	15.46	1.67		26.82	16.05	1.43		28.12	16.59	1.21
	63 (17.2)	825	19.66	16.76	2.48		21.01	17.35	2.21		22.17	17.92	1.92	825	23.46	18.51	1.67		24.71	19.11	1.44		25.92	19.72	1.23
	57 (13.9)		18.72	18.72	2.47		19.79	19.79	2.20		20.71	20.71	1.91		21.71	21.71	1.67		22.67	22.67	1.45		23.60	23.60	1.24
	67 (19.4)		23.53	13.78	2.53		25.17	14.37	2.23		26.56	14.92	1.92		28.10	15.50	1.66		29.60	16.09	1.41		31.02	16.63	1.18
80 (26.7)	67 (19.4)	825	21.28	17.58	2.50		22.75	18.19	2.22		24.00	18.75	1.92	825	25.40	19.35	1.67		26.74	19.96	1.43		28.05	20.56	1.21
	63 (17.2)		20.03	20.03	2.49		21.17	21.09	2.21		22.29	21.72	1.92	825	23.54	22.34	1.67		24.78	22.95	1.44		25.96	23.61	1.23
	57 (13.9)		19.99	19.99	2.49		21.10	21.10	2.21		22.06	22.06	1.91		23.08	23.08	1.67		24.09	24.09	1.44		25.06	25.06	1.23
	67 (19.4)		15.43	6.56	1.50		16.55	6.96	1.36		17.40	7.27	1.13		18.52	7.59	0.97		19.58	8.06	0.82		20.65	8.45	0.67
	63 (17.2)	650	13.88	9.30	1.50		14.90	9.71	1.36		15.70	10.04	1.14	650	16.69	10.46	0.99		17.67	10.87	0.85		18.63	11.27	0.71
80 (26.7)	63 (17.2)		12.80	11.44	1.50		13.73	11.87	1.37		14.47	12.22	1.14	650	15.39	12.65	1.00		16.27	13.10	0.87		17.17	13.48	0.73
	57 (13.9)		12.38	12.38	1.50		13.13	13.13	1.37		13.73	13.73	1.14		14.44	14.44	1.01		15.14	15.14	0.88		15.81	15.81	0.76
	67 (19.4)		15.37	9.34	1.50		16.49	9.75	1.36		17.33	10.09	1.13		18.42	10.48	0.97		19.51	10.89	0.82		20.58	11.27	0.67
	63 (17.2)	650	13.87	12.03	1.50		14.88	12.46	1.36		15.67	12.80	1.14	650	16.66	13.25	0.99		17.62	13.69	0.85		18.59	14.08	0.71
	57 (13.9)		13.28	13.28	1.50		14.07	14.07	1.37		14.69	14.69	1.14	650	15.58	15.21	1.00		16.44	15.74	0.87		17.23	16.25	0.73
75 (23.9)	67 (19.4)		11.91	5.24	1.08		12.82	5.56	1.00		13.38	4.52	0.57		11.19	4.70	0.49		11.92	5.07	0.40		12.67	5.34	0.30
	63 (17.2)	650	10.68	7.75	1.09		11.52	8.07	1.01		9.32	6.60	0.59	650	10.00	6.88	0.52		10.68	7.16	0.44		11.35	7.44	0.35
	57 (13.9)		9.85	9.65	1.09		10.61	10.02	1.02		8.58	8.20	0.60	585	9.20	8.49	0.54		9.81	8.79	0.47		10.41	9.08	0.38
	67 (19.4)		9.79	9.79	1.09		10.43	10.43	1.02		8.47	8.47	0.60		8.98	8.98	0.54		9.48	9.48	0.48		9.96	9.96	0.40
	63 (17.2)		11.85	7.79	1.08		12.79	8.13	1.00		10.33	6.64	0.57		11.10	6.91	0.49		11.86	7.20	0.40		12.62	7.48	0.30
80 (26.7)	67 (19.4)	650	10.87	9.78	1.09		11.51	10.58	1.01		9.33	8.66	0.58	650	10.00	8.96	0.52		10.67	9.26	0.44		11.33	9.56	0.35
	63 (17.2)		10.56	10.56	1.09		11.24	11.24	1.02		9.12	9.12	0.59	585	9.67	9.67	0.52		10.20	10.20	0.45		10.72	10.72	0.37
	57 (13.9)		10.54	10.54	1.09		11.22	11.22	1.02		9.11	9.11	0.59		9.65	9.65	0.52		10.18	10.18	0.45		10.69	10.69	0.37

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR AIR	25VNA836 / FE4ANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)												ID SCFM	Total Syst. KW**	Capacity MBtuh	ID SCFM	Total Syst. KW**	Capacity MBtuh	ID SCFM	Total Syst. KW**	Capacity MBtuh	ID SCFM	Total Syst. KW**	Capacity MBtuh						
		115 (46.1)			105 (40.5)			95 (35)			85 (29.4)															75 (23.9)			65 (18.3)		
		ID SCFM	Capacity MBtuh	Total Syst. KW**	ID SCFM	Capacity MBtuh	Total Syst. KW**	ID SCFM	Capacity MBtuh	Total Syst. KW**	ID SCFM	Capacity MBtuh	Total Syst. KW**													ID SCFM	Capacity MBtuh	Total Syst. KW**	ID SCFM	Capacity MBtuh	Total Syst. KW**
75 (23.9)	72 (22.2)	33.66	13.76	3.92	35.83	14.56	3.82	37.64	15.24	3.33	39.71	16.02	3.03	41.70	16.78	2.74	43.66	17.54	2.45	1050	1050	2.70	39.71	16.02	3.03	41.70	16.78	2.74	43.66	17.54	2.45
	67 (19.4)	30.67	18.58	3.83	32.83	19.41	3.55	34.28	20.14	3.26	36.14	20.93	2.98	37.96	21.76	2.70	39.71	22.50	2.42												
	63 (17.2)	28.43	22.37	3.76	30.25	23.22	3.49	31.80	23.97	3.20	33.50	24.78	2.93	35.17	25.58	2.67	36.77	26.36	2.41												
	57 (13.9)	26.29	26.29	3.70	27.67	27.67	3.42	28.85	28.85	3.14	30.12	30.12	2.88	31.51	31.06	2.63	32.87	31.93	2.38												
	72 (22.2)	33.58	18.53	3.92	35.75	19.37	3.82	37.55	20.09	3.33	39.61	20.91	3.03	41.61	21.68	2.74	43.56	22.44	2.45												
80 (26.7)	67 (19.4)	30.58	23.31	3.83	32.94	24.17	3.55	34.20	24.92	3.26	36.06	25.73	2.98	37.87	26.55	2.70	39.64	27.35	2.42	1050	1050	2.67	33.48	29.54	2.93	35.15	30.40	2.67	36.73	31.18	2.41
	63 (17.2)	28.45	27.05	3.77	30.25	27.93	3.49	31.78	28.71	3.20	33.48	29.54	2.93	35.15	30.40	2.67	36.73	31.18	2.41												
	57 (13.9)	27.92	27.92	3.75	29.37	29.37	3.47	30.60	30.60	3.18	31.93	31.93	2.91	33.21	33.21	2.65	34.45	34.45	2.39												
	72 (22.2)	21.50	9.09	2.51	22.99	9.62	2.19	24.00	9.99	1.85	25.46	10.52	1.58	26.89	11.04	1.32	28.22	11.54	1.09												
	67 (19.4)	19.38	12.78	2.49	20.72	13.34	2.18	21.71	13.77	1.84	23.03	14.33	1.57	24.32	14.88	1.33	25.58	15.44	1.11												
75 (23.9)	63 (17.2)	17.85	15.69	2.47	19.07	16.26	2.18	20.03	16.73	1.83	21.24	17.32	1.57	22.42	17.89	1.34	23.59	18.46	1.12	900	900	1.34	19.90	19.90	1.57	20.84	20.84	1.34	21.76	21.76	1.13
	57 (13.9)	17.16	17.16	2.47	18.15	18.15	2.17	18.94	18.94	1.82	19.90	19.90	1.57	20.84	20.84	1.34	21.76	21.76	1.13												
	72 (22.2)	21.43	12.83	2.51	22.91	13.39	2.19	23.93	13.80	1.85	25.39	14.36	1.58	26.81	14.92	1.32	28.20	15.48	1.09												
	67 (19.4)	19.34	16.49	2.49	20.67	17.07	2.18	21.66	17.54	1.84	22.97	18.13	1.57	24.25	18.71	1.33	25.52	19.29	1.11												
	63 (17.2)	18.40	18.40	2.48	19.44	19.44	2.18	20.23	20.23	1.83	21.35	21.04	1.57	22.50	21.67	1.34	23.66	22.27	1.12												
80 (26.7)	57 (13.9)	18.36	18.36	2.48	19.40	19.40	2.18	20.20	20.20	1.83	21.20	21.20	1.57	22.18	22.18	1.34	23.13	23.13	1.12	600	600	0.34	11.51	4.98	0.49	12.34	5.28	0.40	13.12	7.88	0.28
	72 (22.2)	14.47	6.38	1.82	15.58	6.77	1.53	16.69	4.69	0.66	17.69	4.98	0.49	18.79	5.28	0.34	19.89	5.58	0.22												
	67 (19.4)	13.00	9.42	1.82	14.02	9.86	1.54	15.04	6.85	0.69	16.06	7.17	0.52	17.08	7.49	0.37	18.10	7.81	0.25												
	63 (17.2)	12.02	11.77	1.82	12.97	12.18	1.55	13.92	8.53	0.70	14.87	8.87	0.54	15.82	9.21	0.39	16.77	9.55	0.27												
	57 (13.9)	11.94	11.94	1.82	12.73	12.73	1.55	13.68	8.69	0.71	14.59	9.25	0.54	15.49	9.81	0.40	16.39	10.36	0.28												
75 (23.9)	72 (22.2)	14.41	9.47	1.82	15.54	9.92	1.52	16.64	6.90	0.71	17.74	7.22	0.54	18.84	7.55	0.40	19.94	7.88	0.28	600	600	0.40	11.46	7.22	0.54	12.29	7.55	0.40	13.12	7.88	0.28
	67 (19.4)	13.03	12.45	1.82	14.03	12.93	1.54	15.04	9.02	0.71	16.06	9.37	0.54	17.08	9.72	0.40	18.10	10.07	0.28												
	63 (17.2)	12.86	12.86	1.82	13.70	13.70	1.54	14.54	9.40	0.69	15.49	9.99	0.52	16.44	10.58	0.38	17.39	11.17	0.26												
	57 (13.9)	12.84	12.84	1.82	13.67	13.67	1.54	14.51	9.38	0.69	15.46	9.97	0.52	16.41	10.56	0.38	17.36	11.15	0.26												
	72 (22.2)	21.50	9.09	2.51	22.99	9.62	2.19	24.00	9.99	1.85	25.46	10.52	1.58	26.89	11.04	1.32	28.22	11.54	1.09												

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR °F (°C)	25VNA837 / FE4NIB006L Efficiency Mode Condenser Entering Air Temperature °F (°C)												65 (18.3)							
		115 (46.1)				105 (40.5)				95 (35)				75 (23.9)				55 (13.3)			
		ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**
75 (23.9)	72 (22.2)	33.34	13.66	3.38	35.36	14.43	2.99	37.11	15.07	2.60	39.00	15.77	2.25	40.82	16.46	1.93	42.56	17.12	1.64		
	67 (19.4)	30.28	18.76	3.34	32.11	19.52	2.97	33.70	20.19	2.58	35.41	20.92	2.26	37.04	21.61	1.95	38.64	22.90	1.66		
	63 (17.2)	28.02	22.76	3.31	29.71	23.52	2.95	31.19	24.21	2.57	32.77	24.95	2.25	34.29	25.67	1.95	35.77	26.37	1.67		
	57 (13.9)	26.22	26.22	3.28	27.53	27.53	2.93	28.66	28.66	2.56	29.86	29.86	2.25	31.00	31.00	1.96	32.09	32.09	1.69		
	67 (19.4)	33.22	18.74	3.38	35.26	19.50	2.99	36.99	20.17	2.60	38.88	20.89	2.25	40.70	21.60	1.93	42.44	22.28	1.64		
80 (26.7)	67 (19.4)	30.18	23.76	3.34	32.01	24.54	2.97	33.60	25.23	2.58	35.31	25.97	2.26	36.94	26.69	1.95	38.54	27.40	1.66		
	63 (17.2)	28.06	27.66	3.31	29.73	28.49	2.95	31.18	29.21	2.57	32.75	29.98	2.25	34.26	30.72	1.95	35.73	31.44	1.67		
	57 (13.9)	27.88	27.88	3.31	29.25	29.25	2.95	30.44	30.44	2.57	31.68	31.68	2.25	32.88	32.88	1.96	34.02	34.02	1.68		
	67 (19.4)	22.97	9.60	3.06	24.68	10.23	2.52	26.27	10.83	1.97	27.96	11.46	1.55	29.61	12.08	1.19	31.25	12.70	0.88		
	63 (17.2)	20.76	13.46	3.06	22.31	14.15	2.53	23.77	14.82	1.99	25.28	15.50	1.58	26.77	16.18	1.23	28.24	16.87	0.92		
80 (26.7)	63 (17.2)	19.15	16.49	3.06	20.58	17.23	2.54	21.93	17.94	2.00	23.33	18.68	1.60	24.69	19.40	1.25	26.04	20.13	0.95		
	57 (13.9)	18.30	18.30	3.06	19.47	19.47	2.54	20.57	20.57	2.01	21.69	21.69	1.61	22.78	22.78	1.27	23.85	23.85	0.98		
	67 (19.4)	22.86	13.49	3.06	24.58	14.18	2.52	26.17	14.84	1.97	27.85	15.54	1.55	29.51	16.22	1.19	31.14	16.90	0.88		
	63 (17.2)	20.69	17.29	3.06	22.23	18.04	2.53	23.70	18.76	1.99	25.20	19.52	1.58	26.69	20.27	1.23	28.16	21.01	0.92		
	57 (13.9)	19.52	19.52	3.06	20.75	20.75	2.54	22.01	21.83	2.00	23.37	22.86	1.60	24.72	23.46	1.25	26.05	24.25	0.95		
75 (23.9)	72 (22.2)	17.86	7.53	2.92	19.41	8.11	2.31	21.91	21.91	2.00	23.09	23.09	1.60	24.24	24.24	1.26	25.37	25.37	0.96		
	67 (19.4)	16.10	10.65	2.94	17.51	11.32	2.34	19.42	6.15	1.11	21.14	6.65	0.76	23.09	7.17	0.48	25.37	7.63	0.26		
	63 (17.2)	14.87	13.08	2.95	16.15	13.82	2.36	18.38	10.26	1.18	20.58	10.91	0.83	22.86	11.57	0.55	25.37	12.24	0.33		
	57 (13.9)	14.32	14.32	2.95	15.40	15.40	2.37	17.46	11.67	1.20	19.33	12.58	0.85	21.91	13.49	0.57	25.37	14.41	0.35		
	67 (19.4)	17.78	10.67	2.92	19.33	11.35	2.31	21.91	8.44	1.11	23.09	9.04	0.76	25.37	9.64	0.48	25.37	10.26	0.26		
80 (26.7)	67 (19.4)	16.07	13.74	2.94	17.46	14.50	2.34	19.42	10.73	1.15	21.14	11.41	0.80	23.09	12.09	0.52	25.37	12.78	0.30		
	63 (17.2)	15.31	15.31	2.94	16.47	16.47	2.35	18.45	12.45	1.17	20.58	13.26	0.82	22.86	14.02	0.54	25.37	14.78	0.33		
	57 (13.9)	15.28	15.28	2.94	16.44	16.44	2.35	18.43	12.43	1.18	20.57	13.39	0.83	22.86	14.36	0.55	25.37	15.33	0.33		
	67 (19.4)	17.86	7.53	2.92	19.41	8.11	2.31	21.91	6.15	1.11	23.09	6.65	0.76	25.37	7.17	0.48	25.37	7.63	0.26		
	63 (17.2)	16.10	10.65	2.94	17.51	11.32	2.34	19.42	8.44	1.15	21.14	9.03	0.80	23.09	9.63	0.52	25.37	10.24	0.30		

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR AIR	25VNA848 / FE4ANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)																		
		115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)			
		ID SCFM	Capacity MBtuh Total	Total Syst. KW**	ID SCFM	Capacity MBtuh Total	Total Syst. KW**	ID SCFM	Capacity MBtuh Total	Total Syst. KW**	ID SCFM	Capacity MBtuh Total	Total Syst. KW**	ID SCFM	Capacity MBtuh Total	Total Syst. KW**	ID SCFM	Capacity MBtuh Total	Total Syst. KW**	
STAGE 5																				
75 (23.9)	72 (22.2)	1400	44.46	17.96	5.30	47.55	19.13	4.76	50.59	20.28	4.26	53.58	21.41	3.78	56.49	22.53	3.33	59.36	23.64	2.90
	67 (19.4)	1400	40.53	24.37	5.19	43.36	25.62	4.67	46.12	26.85	4.18	48.81	28.07	3.72	51.44	29.27	3.28	54.03	30.47	2.88
	63 (17.2)		37.62	29.42	5.09	40.24	30.72	4.59	42.79	32.02	4.12	45.28	33.30	3.67	47.70	34.55	3.25	50.09	35.81	2.86
	57 (13.9)		34.79	34.79	4.99	36.84	36.84	4.50	38.82	38.82	4.04	40.75	40.75	3.61	42.87	42.14	3.21	44.94	43.50	2.83
	72 (22.2)	1400	44.36	24.28	5.30	47.46	25.53	4.77	50.50	26.76	4.26	53.48	27.99	3.78	56.39	29.19	3.33	59.24	30.40	2.90
80 (26.7)	67 (19.4)	1400	40.43	30.64	5.19	43.26	31.96	4.67	46.02	33.28	4.18	48.71	34.57	3.72	51.35	35.85	3.28	53.94	37.15	2.88
	63 (17.2)		37.66	35.55	5.10	40.25	36.99	4.59	42.77	38.38	4.12	45.25	39.75	3.67	47.66	41.09	3.25	50.04	42.41	2.86
	57 (13.9)		36.88	36.88	5.07	39.04	39.04	4.56	41.10	41.10	4.09	43.11	43.11	3.64	45.06	45.06	3.23	46.95	46.95	2.84
	72 (22.2)	1200	29.36	12.30	3.08	31.57	13.11	2.74	33.60	13.87	2.38	35.73	14.86	2.08	37.85	15.46	1.79	39.94	16.25	1.53
	67 (19.4)	1200	26.65	17.55	3.05	28.66	18.45	2.73	30.51	19.30	2.38	32.44	20.17	2.09	34.35	21.05	1.82	36.25	21.92	1.56
75 (23.9)	63 (17.2)		24.64	21.63	3.04	26.47	22.60	2.72	28.19	23.52	2.38	29.95	24.47	2.10	31.72	25.42	1.83	33.46	26.36	1.58
	57 (13.9)		23.69	23.69	3.03	25.21	25.21	2.71	26.63	26.63	2.37	28.09	28.09	2.10	29.52	29.52	1.84	30.92	30.92	1.60
	72 (22.2)	1200	29.26	17.54	3.08	31.47	18.44	2.74	33.50	19.28	2.38	35.64	20.16	2.08	37.75	21.04	1.79	39.84	21.91	1.53
	67 (19.4)	1200	26.58	22.70	3.06	28.58	23.70	2.73	30.43	24.64	2.38	32.35	25.61	2.09	34.25	26.57	1.82	36.15	27.54	1.56
	63 (17.2)		25.33	25.33	3.04	26.94	26.94	2.72	28.40	28.38	2.38	30.14	29.65	2.10	31.85	30.76	1.83	33.56	31.83	1.58
80 (26.7)	57 (13.9)		25.29	25.29	3.04	26.90	26.90	2.72	28.39	28.39	2.38	29.92	29.92	2.10	31.42	31.42	1.83	32.90	32.90	1.58
	72 (22.2)	1100	25.37	10.73	2.67	27.27	11.42	2.37	19.54	8.42	1.06	20.95	8.94	0.89	22.36	9.47	0.72	23.78	10.00	0.56
	67 (19.4)	1100	22.95	15.36	2.66	24.75	16.20	2.37	17.66	12.16	1.09	18.94	12.78	0.92	20.22	13.39	0.76	21.49	14.00	0.61
	63 (17.2)		21.20	18.93	2.65	22.84	19.87	2.38	16.38	15.07	1.11	17.54	15.80	0.95	18.70	16.45	0.79	19.87	17.13	0.65
	57 (13.9)		20.51	20.51	2.65	21.90	21.90	2.38	16.01	16.01	1.11	17.02	17.02	0.96	18.02	18.02	0.81	19.01	19.01	0.67
75 (23.9)	72 (22.2)	1100	25.29	15.39	2.67	27.28	16.22	2.37	19.46	12.19	1.06	20.87	12.80	0.89	22.28	13.41	0.72	23.69	14.03	0.56
	67 (19.4)	1100	22.91	19.93	2.66	24.69	20.87	2.37	17.66	15.85	1.09	18.93	16.56	0.92	20.19	17.27	0.76	21.46	17.97	0.61
	63 (17.2)		21.96	21.96	2.66	23.43	23.43	2.38	17.13	17.13	1.10	18.21	18.21	0.93	19.27	19.27	0.78	20.33	20.33	0.64
	57 (13.9)		21.92	21.92	2.66	23.39	23.39	2.38	17.10	17.10	1.10	18.18	18.18	0.93	19.24	19.24	0.78	20.29	20.29	0.64
	72 (22.2)	1200	29.36	12.30	3.08	31.57	13.11	2.74	33.60	13.87	2.38	35.73	14.86	2.08	37.85	15.46	1.79	39.94	16.25	1.53

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP AIR °F (°C)	25VNA8607FE4ANB006L Efficiency Mode Condenser Entering Air Temperature °F (°C)										75 (23.9)										65 (18.3)									
		115 (46.1)					105 (40.5)					95 (35)					85 (29.4)					75 (23.9)					65 (18.3)				
		ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	Total Sys. KW**					
75 (23.9)	72 (22.2)		54.16	21.71	7.27		58.13	23.22	6.50		62.05	24.71	5.83		65.88	26.19	5.23		69.70	27.67	4.89		73.51	29.16	4.22						
	67 (19.4)		49.48	29.16	7.08		53.10	30.83	6.32		56.62	32.47	5.65		60.10	34.10	5.06		63.54	35.73	4.54		66.97	37.96	4.08						
	63 (17.2)	1600	46.01	35.04	6.94		49.36	36.81	6.19		52.62	38.56	5.52	1600	55.84	40.30	4.93		59.02	42.03	4.42	1600	62.18	43.77	3.96						
	57 (13.9)		42.15	42.15	6.80		44.79	44.79	6.03		47.47	47.22	5.36		50.24	49.26	4.76		53.01	51.19	4.27		55.79	53.12	3.82						
	72 (22.2)		54.02	29.01	7.27		57.99	30.66	6.51		61.91	32.31	5.83		65.73	33.94	5.23		69.54	35.58	4.89		73.38	37.25	4.22						
80 (26.7)	67 (19.4)		49.35	36.40	7.08		52.97	38.20	6.32		56.50	39.99	5.65		59.97	41.75	5.06		63.42	43.53	4.54		66.85	45.31	4.08						
	63 (17.2)	1600	45.98	42.19	6.95		49.31	44.12	6.19		52.56	46.03	5.52	1600	55.76	47.91	4.94		58.94	49.79	4.42	1600	62.09	51.68	3.96						
	57 (13.9)		44.59	44.59	6.89		47.37	47.37	6.12		50.06	50.06	5.44		52.70	52.70	4.85		55.28	55.28	4.33		57.84	57.84	3.87						
	72 (22.2)		35.59	14.62	3.53		38.22	15.60	3.17		40.53	16.44	2.81		43.15	17.42	2.52		45.75	18.40	2.26		48.31	19.37	2.03						
	67 (19.4)	1350	32.14	20.20	3.49		34.58	21.25	3.13		36.71	22.19	2.76	1350	39.08	23.23	2.48		41.41	24.27	2.22	1350	43.72	25.33	1.99						
80 (26.7)	63 (17.2)		29.59	24.58	3.46		31.84	25.69	3.11		33.86	26.69	2.73		36.06	27.78	2.44		38.24	28.87	2.19		40.37	29.94	1.96						
	57 (13.9)		27.84	27.84	3.44		29.82	29.62	3.09		31.23	31.23	2.70		32.94	32.94	2.42		34.60	34.60	2.16		36.29	36.29	1.94						
	72 (22.2)		35.48	20.25	3.53		38.16	21.30	3.17		40.41	22.20	2.81		43.03	23.25	2.52		45.63	24.29	2.26		48.16	25.95	2.03						
	67 (19.4)	1350	32.03	25.76	3.49		34.46	26.87	3.13		36.60	27.89	2.76	1350	38.97	28.99	2.48		41.31	30.09	2.22	1350	43.64	31.19	1.99						
	57 (13.9)		29.73	29.73	3.46		31.58	31.58	3.11		33.26	33.26	2.72		35.03	35.03	2.44		36.78	36.78	2.18		38.50	38.50	1.95						
75 (23.9)	72 (22.2)		26.64	11.15	2.26		28.72	11.89	2.04		31.20	12.63	1.81		33.26	13.47	1.61		35.03	14.25	1.44		36.78	15.03	1.26						
	67 (19.4)		23.82	15.66	2.25		25.70	16.41	2.04		28.14	17.16	1.76		30.08	17.91	1.54		32.22	18.66	1.33		34.30	19.41	1.14						
	63 (17.2)	1200	21.78	19.18	2.24		23.51	19.96	2.03		25.70	20.74	1.81	1200	28.14	21.51	1.61		30.08	22.28	1.44	1200	32.22	23.03	1.26						
	57 (13.9)		20.87	20.87	2.23		22.22	22.22	2.03		24.15	24.15	1.76		26.19	26.19	1.54		28.14	28.14	1.33		30.08	30.08	1.14						
	72 (22.2)		26.55	15.78	2.26		28.63	16.54	2.04		31.20	17.29	1.81		33.26	18.07	1.61		35.03	18.85	1.44		36.78	19.63	1.26						
80 (26.7)	67 (19.4)		23.75	20.23	2.25		25.64	21.01	2.04		28.14	21.81	1.81		30.08	22.58	1.61		32.22	23.36	1.44		34.30	24.14	1.26						
	63 (17.2)	1200	22.48	22.48	2.24		23.92	23.92	2.03		25.70	24.15	1.81	1200	28.14	24.15	1.61		30.08	26.19	1.44	1200	32.22	28.14	1.26						
	57 (13.9)		22.45	22.45	2.24		23.87	23.87	2.03		25.70	25.70	1.81		27.67	27.67	1.61		29.52	29.52	1.44		31.37	31.37	1.26						
	72 (22.2)		26.64	11.15	2.26		28.72	11.89	2.04		31.20	12.63	1.81		33.26	13.47	1.61		35.03	14.25	1.44		36.78	15.03	1.26						
	67 (19.4)	975	21.61	13.15	0.82		22.93	13.15	0.82		24.25	13.15	0.82	975	25.64	13.15	0.82		27.07	13.15	0.82	975	28.93	13.15	0.82						

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB ° F (° C)	25VNA813 / FE-4NF002L Comfort + Dehumidify Mode Condenser Entering Air Temperature ° F (° C)															
	105 (40.5)				85 (29.4)				75 (23.9)				65 (18.3)			
	ID SCFM	Capacity Total	Capacity Sensit	Total Sys. KW	ID SCFM	Capacity Total	Capacity Sensit	Total Sys. KW	ID SCFM	Capacity Total	Capacity Sensit	Total Sys. KW	ID SCFM	Capacity Total	Capacity Sensit	Total Sys. KW
75 (23.9)	72 (22.2)	13.37	5.44	1.18	420	14.50	5.94	1.00	420	15.45	6.29	0.83	420	16.38	6.64	0.67
	67	14.26	10.65	0.56		11.99	7.16	1.18		13.04	7.97	1.00				
	63	12.22	12.22	0.71		12.76	12.76	0.59		10.99	8.49	1.18				
	57	15.41	8.38	0.83		16.33	8.74	0.67		17.24	9.10	0.82				
	(13.9)	13.00	10.01	1.00		13.85	10.39	0.84		14.69	10.76	0.88				
80 (26.7)	72 (22.2)	10.99	10.23	1.18	420	12.01	11.57	1.00	420	12.77	11.97	0.84	420	13.52	12.35	0.70
	67	0.00	0.00	0.00		10.68	10.68	1.17		11.81	11.81	1.00				
	63	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	57	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	(13.9)	10.76	4.39	0.91		11.82	4.87	0.78		12.65	5.18	0.66				
75 (23.9)	72 (22.2)	11.65	8.92	0.50	360	9.61	5.79	0.92	360	10.58	6.60	0.79	360	11.32	6.92	0.68
	67	10.06	10.06	0.61		10.54	10.54	0.52		8.80	6.91	0.92				
	63	12.61	6.97	0.66		13.43	7.30	0.55		14.21	7.63	0.43				
	57	10.55	8.35	0.79		11.29	8.69	0.68		12.01	9.02	0.57				
	(13.9)	8.81	8.35	0.92		9.74	9.67	0.79		10.39	10.04	0.69				
80 (26.7)	72 (22.2)	0.00	0.00	0.00	360	8.62	8.62	0.92	360	9.70	9.70	0.79	360	10.25	10.25	0.69
	67	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	63	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	57	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	(13.9)	9.57	3.95	0.77		8.06	3.42	0.51		8.75	3.67	0.45				
75 (23.9)	72 (22.2)	8.23	6.83	0.34	300	8.56	5.36	0.78	300	7.20	4.86	0.52	300	7.82	5.13	0.46
	67	7.30	7.30	0.41		7.70	7.70	0.36		7.83	6.48	0.78				
	63	8.71	5.16	0.45		9.40	5.44	0.37		10.08	5.71	0.29				
	57	7.19	6.32	0.52		7.80	6.61	0.46		8.41	6.91	0.39				
	(13.9)	7.88	7.88	0.78		6.91	6.91	0.52		7.40	7.40	0.46				
80 (26.7)	72 (22.2)	0.00	0.00	0.00	300	7.86	7.86	0.78	300	6.89	6.89	0.52	300	7.38	7.38	0.46
	67	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	63	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	57	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00				
	(13.9)	9.44	3.92	0.37		9.00	7.19	0.32		9.55	5.41	0.77				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	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	
			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		Total
75 (23.9)	72 (22.2)	642	24.61	9.99	2.60	608	25.43	10.26	2.22	634	26.73	10.77	1.90	663	27.99	11.27	1.60	708	29.29	11.79	1.33	
	67 (19.4)		22.32	13.17	2.56		23.05	13.27	2.20		24.23	13.87	1.99		25.36	14.46	1.60		26.57	15.19	1.34	
	63 (17.2)		20.82	15.67	2.53		21.29	15.62	2.18		22.39	16.30	1.87		23.44	17.00	1.60		24.55	17.84	1.34	
	57 (13.9)		18.73	18.73	2.50		19.03	18.99	2.15		20.00	19.77	1.86		20.94	20.63	1.59		21.98	21.66	1.35	
	72 (22.2)		24.55	13.18	2.60		25.37	13.28	2.23		26.67	13.88	1.90		27.93	14.49	1.60		29.23	15.20	1.33	
80 (26.7)	67 (19.4)	642	22.26	16.33	2.56	608	23.00	16.25	2.20	634	24.17	16.95	1.89	663	25.31	17.67	1.60	708	26.51	18.55	1.34	
	63 (17.2)		20.61	18.80	2.54		21.27	18.58	2.18		22.35	19.35	1.87		23.41	20.17	1.60		24.53	21.19	1.35	
	57 (13.9)		19.90	19.90	2.52		20.17	20.17	2.16		21.12	21.12	1.86		22.06	22.06	1.59		23.16	23.16	1.35	
	72 (22.2)		15.21	6.19	1.37		16.13	6.52	1.21		17.53	7.08	1.07		18.92	7.64	0.93		20.37	8.22	0.78	
	67 (19.4)		13.70	8.14	1.37		14.54	8.44	1.21		15.81	9.12	1.08		17.07	9.81	0.95		18.41	10.80	0.81	
75 (23.9)	63 (17.2)	437	12.58	9.66	1.36	415	13.37	9.90	1.21	437	14.52	10.71	1.08	456	15.68	11.49	0.96	484	16.92	12.42	0.83	
	57 (13.9)		11.42	11.42	1.35		11.92	11.92	1.20		12.92	12.92	1.09		13.91	13.91	0.98		15.03	15.03	0.86	
	72 (22.2)		15.17	8.18	1.37		16.09	8.46	1.21		17.47	9.16	1.07		18.87	9.88	0.93		20.36	10.65	0.78	
	67 (19.4)		13.66	10.10	1.37		14.51	10.33	1.21		15.77	11.18	1.08		17.03	12.00	0.95		18.37	12.96	0.81	
	63 (17.2)		12.58	11.62	1.36		13.35	11.80	1.21		14.51	12.75	1.08		15.66	13.67	0.96		16.91	14.77	0.83	
80 (26.7)	57 (13.9)	362	12.18	12.18	1.36	415	12.69	12.69	1.21	437	13.76	13.76	1.09	456	14.81	14.81	0.97	484	15.99	15.99	0.84	
	72 (22.2)		11.44	4.66	0.97		6.60	2.69	0.40		7.58	3.09	0.38		8.49	3.44	0.35		9.61	3.90	0.30	
	67 (19.4)		10.26	6.13	0.97		5.88	3.57	0.41		6.74	4.08	0.40		7.54	4.46	0.38		8.50	5.05	0.33	
	63 (17.2)		9.39	7.28	0.97		5.34	4.26	0.41		6.12	4.85	0.41		6.85	5.27	0.39		7.75	5.98	0.36	
	57 (13.9)		8.56	8.56	0.97		4.90	4.90	0.42		5.60	5.60	0.42		6.18	6.18	0.41		7.00	7.00	0.38	
75 (23.9)	72 (22.2)	362	11.42	6.18	0.97	222	6.57	3.61	0.40	234	7.55	4.13	0.38	229	8.46	4.53	0.35	245	9.58	5.13	0.30	
	67 (19.4)		10.24	7.63	0.97		5.86	4.48	0.41		6.72	5.11	0.40		7.52	5.54	0.38		8.53	6.25	0.33	
	63 (17.2)		9.40	8.79	0.97		5.34	5.17	0.41		6.12	5.89	0.41		6.85	6.35	0.39		7.75	7.20	0.36	
	57 (13.9)		9.15	9.15	0.97		5.26	5.26	0.42		6.02	6.02	0.41		6.63	6.63	0.40		7.51	7.51	0.37	
	72 (22.2)		11.44	4.66	0.97		6.60	2.69	0.40		7.58	3.09	0.38		8.49	3.44	0.35		9.61	3.90	0.30	

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	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	
			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		Total
75 (23.9)	72 (22.2)	608	24.05	9.74	2.20	608	25.31	10.23	1.90	608	26.93	10.87	1.64	663	28.53	11.51	1.40	708	30.24	12.20	1.18	
	67 (19.4)		21.69	12.60	2.19		22.84	13.11	1.89		24.30	13.68	1.65		25.76	14.68	1.42		27.35	15.63	1.20	
	63 (17.2)		19.98	14.84	2.17		21.05	15.36	1.88		22.40	16.25	1.65		23.76	17.17	1.43		25.20	18.29	1.22	
	57 (13.9)		17.96	17.96	2.15		18.83	18.68	1.87		20.01	19.72	1.64		21.32	20.70	1.43		22.50	22.16	1.24	
	72 (22.2)		23.98	12.65	2.20		25.25	13.15	1.90		26.85	13.94	1.64		28.46	14.73	1.40		30.15	15.64	1.18	
80 (26.7)	67 (19.4)	608	21.63	15.47	2.19	608	22.79	15.99	1.89	634	24.25	16.90	1.65	663	25.71	17.85	1.42	708	27.28	19.03	1.20	
	63 (17.2)		19.98	17.70	2.17		21.04	18.23	1.88		22.39	19.25	1.65		23.75	20.31	1.43		25.21	21.65	1.22	
	57 (13.9)		19.08	19.08	2.16		19.91	19.91	1.88		21.11	21.11	1.65		22.34	22.34	1.43		23.76	23.76	1.23	
	72 (22.2)		15.55	6.31	1.34		16.33	6.61	1.11		17.39	7.04	0.97		18.54	7.49	0.82		19.76	8.00	0.67	
	67 (19.4)		13.99	8.14	1.35		14.70	8.46	1.12		15.68	8.96	0.98		16.71	9.53	0.84		17.84	10.19	0.71	
75 (23.9)	63 (17.2)	437	12.85	9.59	1.35	437	13.92	9.91	1.12	482	14.42	10.48	0.99	475	15.37	11.12	0.86	510	16.42	11.92	0.73	
	57 (13.9)		11.51	11.51	1.35		12.02	12.02	1.12		12.80	12.70	1.00		13.64	13.47	0.88		14.57	14.45	0.77	
	72 (22.2)		15.51	8.19	1.34		16.26	8.49	1.11		17.34	9.02	0.97		18.49	9.57	0.82		19.72	10.27	0.67	
	67 (19.4)		13.96	10.01	1.35		14.86	10.33	1.12		15.64	10.92	0.98		16.67	11.58	0.84		17.81	12.41	0.71	
	63 (17.2)		12.84	11.44	1.35		13.51	11.79	1.12		14.41	12.41	0.99		15.36	13.18	0.86		16.40	14.13	0.73	
80 (26.7)	57 (13.9)	437	12.26	12.26	1.35	12.79	12.79	1.12	13.57	13.57	1.00	14.43	14.43	0.87	15.44	15.44	0.75	510	16.40	14.13	0.73	
	72 (22.2)		11.60	4.69	1.00	8.92	3.59	0.58	9.47	3.82	0.52	10.00	4.04	0.45	10.52	4.25	0.32					
	67 (19.4)		10.38	6.01	1.01	7.98	4.45	0.60	8.46	4.67	0.54	8.93	4.88	0.48	9.39	5.10	0.41					
	63 (17.2)		9.51	7.00	1.01	7.29	5.10	0.61	7.72	5.33	0.56	8.15	5.55	0.50	8.56	5.76	0.44					
	57 (13.9)		10.39	5.98	1.01	6.96	6.09	0.62	6.74	6.31	0.58	7.10	6.52	0.54	7.47	6.73	0.48					
75 (23.9)	72 (22.2)	342	11.57	6.04	1.00	342	8.90	4.49	0.58	250	9.45	4.72	0.52	250	9.98	4.95	0.45	250	10.49	5.17	0.37	
	67 (19.4)		10.36	7.32	1.01		7.96	5.34	0.60		8.44	5.57	0.54		8.91	5.79	0.48		9.37	6.01	0.41	
	63 (17.2)		9.50	8.34	1.01		7.28	5.99	0.61		7.71	6.23	0.56		8.14	6.45	0.51		8.54	6.67	0.44	
	57 (13.9)		8.99	8.99	1.02		6.65	6.65	0.61		6.96	6.96	0.58		7.27	7.27	0.53		7.56	7.56	0.48	
	72 (22.2)		11.60	4.69	1.00		8.64	3.49	0.58		9.30	3.76	0.52		9.74	3.95	0.45		10.45	4.23	0.32	
80 (26.7)	67 (19.4)	342	10.38	6.01	1.01	342	7.72	4.24	0.59	222	8.31	4.55	0.54	229	8.69	4.72	0.48	245	9.32	5.06	0.41	
	63 (17.2)		9.51	7.00	1.01		7.04	4.82	0.60		7.58	5.17	0.56		7.93	5.31	0.51		8.50	5.70	0.45	
	57 (13.9)		8.42	8.42	1.02		6.16	5.65	0.61		6.61	6.07	0.58		6.92	6.18	0.54		7.42	6.65	0.49	
	72 (22.2)		11.57	6.03	1.00		8.62	4.29	0.58		9.28	4.61	0.52		9.72	4.78	0.45		10.43	5.13	0.37	
	67 (19.4)		10.36	7.32	1.01		7.70	5.03	0.59		8.29	5.39	0.54		8.68	5.55	0.48		9.31	5.95	0.41	
75 (23.9)	63 (17.2)	342	9.50	8.34	1.01	342	7.03	5.61	0.60	222	7.57	6.01	0.56	229	7.92	6.14	0.51	245	8.49	6.59	0.45	
	57 (13.9)		8.99	8.99	1.02		6.30	6.30	0.61		6.76	6.76	0.57		6.98	6.98	0.53		7.49	7.49	0.48	
	72 (22.2)		11.60	4.69	1.00		8.64	3.49	0.58		9.30	3.76	0.52		9.74	3.95	0.45		10.45	4.23	0.32	
	67 (19.4)		10.38	6.01	1.01		7.72	4.24	0.59		8.31	4.55	0.54		8.69	4.72	0.48		9.32	5.06	0.41	
	63 (17.2)		9.51	7.00	1.01		7.04	4.82	0.60		7.58	5.17	0.56		7.93	5.31	0.51		8.50	5.70	0.45	

STAGE 1 - FEANFOUS ONLY

STAGE 1 - ALL OTHER INDOOR COMBINATIONS

STAGE 3

STAGE 5

STAGE 1 - FEANFOUS ONLY

STAGE 1 - ALL OTHER INDOOR COMBINATIONS

STAGE 3

STAGE 5

STAGE 1 - FEANFOUS ONLY

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 - Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB ° F (° C)	EVAP. AIR EWB ° F (° C)		105 (40.5)				85 (35)				75 (23.3)				65 (18.3)			
			Capacity MBtuh		Total Sys. KW		Capacity MBtuh		Total Sys. KW		Capacity MBtuh		Total Sys. KW		Capacity MBtuh		Total Sys. KW	
			Total	Sensit.	Total	Sensit.	Total	Sensit.	Total	Sensit.	Total	Sensit.	Total	Sensit.	Total	Sensit.	Total	Sensit.
ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	ID SCFM	
75 (23.9)	72 (22.2)	34.02	13.71	2.91	35.00	14.33	2.52	37.64	15.13	2.19	39.66	15.93	1.89	41.83	16.79	1.61		
	67	30.97	17.74	2.85	32.42	13.38	2.47	34.27	19.38	2.17	36.10	20.40	1.88	37.30	21.11	1.73		
	63	28.74	20.92	2.80	30.10	21.57	2.43	31.81	22.72	2.14	32.83	23.41	2.00	34.63	24.80	1.72		
	57	25.73	25.56	2.73	26.83	26.26	2.37	27.87	27.05	2.26	29.38	28.45	1.98	31.01	30.18	1.72		
	72 (22.2)	34.41	17.92	2.77	35.26	18.16	2.58	37.27	19.15	2.25	39.27	20.16	1.94	41.41	21.33	1.65		
80 (26.7)	67	30.67	21.50	2.92	32.12	22.15	2.53	33.95	23.33	2.22	35.78	24.54	1.92	37.75	26.02	1.65		
	63	28.49	24.67	2.87	29.84	25.33	2.49	31.53	26.66	2.19	33.25	28.05	1.90	35.08	29.75	1.64		
	57	27.02	27.02	2.82	28.04	28.04	2.45	29.59	29.59	2.16	31.17	31.17	1.88	32.28	32.28	1.75		
	72 (22.2)	22.84	9.21	2.45	24.22	9.76	1.91	26.00	10.47	1.51	27.69	11.14	1.16	29.54	11.89	0.87		
	67	20.96	11.85	2.26	22.23	12.44	1.76	23.85	13.36	1.39	25.39	14.20	1.07	26.68	13.84	1.44		
75 (23.9)	63	19.62	14.03	2.06	20.81	14.66	1.60	22.32	15.74	1.25	21.65	15.23	1.74	23.11	16.32	1.38		
	57	17.72	17.24	1.86	18.79	17.93	1.43	18.37	17.54	2.03	19.57	18.63	1.85	20.88	19.98	1.32		
	72 (22.2)	24.22	12.44	1.66	23.40	11.90	2.24	25.13	12.78	1.80	26.78	13.60	1.41	28.58	14.55	1.07		
	67	20.25	13.91	2.65	21.49	14.53	2.09	23.07	15.61	1.68	24.57	16.59	1.32	26.21	17.77	1.01		
	63	18.96	16.11	2.46	20.15	16.72	1.83	21.61	17.97	1.55	23.01	19.07	1.22	24.55	20.43	0.93		
57	18.02	18.02	2.26	18.96	18.96	1.77	20.34	20.34	1.42	21.63	21.63	1.11	21.07	21.07	1.53			
75 (23.9)	72 (22.2)	17.97	7.25	2.27	14.42	5.88	1.11	15.67	6.37	0.76	16.94	6.88	0.48	18.21	7.36	0.27		
	67	15.37	8.76	2.23	13.55	8.09	0.95	14.69	8.66	0.64	15.85	9.23	0.39	15.11	8.71	0.70		
	63	14.72	10.65	1.87	12.96	10.01	0.78	14.03	10.64	0.50	13.42	10.01	0.94	14.30	10.52	0.68		
	57	13.65	13.33	1.50	12.28	12.28	0.60	11.69	11.69	1.18	12.40	12.40	0.90	12.11	12.11	0.72		
	72 (22.2)	18.97	9.81	1.10	14.74	8.00	1.27	15.86	8.48	0.93	16.67	8.28	0.72	16.90	8.84	0.45		
80 (26.7)	67	15.73	10.94	2.56	13.71	10.22	1.18	13.59	9.93	0.96	14.70	10.56	0.85	15.82	11.20	0.41		
	63	14.92	12.81	2.31	12.02	11.19	1.17	13.04	11.88	0.82	14.08	12.56	0.55	15.13	13.26	0.33		
	57	13.31	13.31	2.25	12.15	12.15	0.98	13.05	13.05	0.87	13.95	13.95	0.42	13.19	13.19	0.79		
	72 (22.2)	17.21	6.93	2.27	11.89	4.85	1.16	12.71	5.21	0.82	13.90	5.70	0.54	15.29	6.25	0.32		
	67	14.73	8.14	2.23	11.15	5.91	0.99	11.87	6.32	0.68	12.96	6.90	0.43	12.64	6.74	0.80		
75 (23.9)	63	14.10	9.74	1.87	10.82	6.89	0.80	11.31	7.28	0.52	10.96	7.06	1.03	11.97	7.72	0.76		
	57	12.97	12.07	1.50	9.73	8.24	0.61	9.18	7.68	1.24	9.95	8.34	0.96	10.04	8.43	0.79		
	72 (22.2)	18.18	9.13	1.10	12.17	5.90	1.33	12.87	6.23	1.01	12.88	6.23	0.81	14.20	6.88	0.53		
	67	15.07	9.98	2.56	11.27	6.98	1.22	11.00	6.75	1.02	12.04	7.40	0.72	13.26	8.18	0.47		
	63	14.28	11.55	2.30	9.83	7.28	1.22	10.51	7.69	0.87	11.50	8.42	0.60	12.66	9.30	0.37		
57	12.37	12.37	2.25	9.04	8.60	1.02	9.64	9.01	0.72	10.53	9.87	0.47	10.28	9.71	0.91			

STAGE 1 - FE-ANBOOBL ONLY

STAGE 1 - OTHER COILS

STAGE 3

STAGE 5

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 1 - Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	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	
			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		Total
75 (23.9)	72 (22.2)	1110	46.15	18.51	4.57	1184	49.48	19.81	4.11	1257	52.80	21.11	3.68	1330	56.10	22.38	3.28	1226	58.13	23.21	2.80	
	67 (19.4)		42.05	23.76	4.47		45.08	25.46	4.03		48.10	27.15	3.62		51.08	28.84	3.24					
	63 (17.2)		39.02	27.87	4.39		41.83	28.88	3.97		44.61	31.87	3.57		47.36	33.85	3.20					
	57 (13.9)		35.01	33.85	4.28		37.53	36.29	3.88		40.02	38.72	3.51		42.47	41.16	3.16					
	72 (22.2)		46.07	23.69	4.57		49.40	25.39	4.11		52.71	27.07	3.68		55.99	28.76	3.28					
80 (26.7)	67 (19.4)	1110	41.97	28.88	4.47	1184	45.00	30.96	4.03	1257	48.01	33.04	3.62	1330	50.99	35.10	3.24	1226	52.80	35.16	2.77	
	63 (17.2)		38.97	32.95	4.39		41.78	35.35	3.97		44.56	37.73	3.57		47.31	40.09	3.20					
	57 (13.9)		36.54	36.54	4.32		39.18	39.18	3.92		41.80	41.80	3.53		44.40	44.40	3.17					
	72 (22.2)		29.64	11.97	2.58		31.86	12.87	2.24		34.06	13.75	1.96		36.31	14.65	1.69		1001	39.02	15.76	1.45
	67 (19.4)		26.82	15.33	2.57		28.87	16.54	2.24		30.87	17.64	1.96		32.91	18.82	1.71			35.37	20.54	1.48
63 (17.2)	24.74	17.92	2.56	26.64	19.39	2.23	28.46	20.78	1.97	30.37	22.07	1.72	32.64	24.25	1.50							
57 (13.9)	22.07	21.73	2.54	23.80	23.54	2.22	25.49	25.08	1.97	27.16	26.77	1.74	29.37	29.37	1.53							
72 (22.2)	29.56	15.35	2.58	31.78	16.57	2.24	33.99	17.69	1.96	36.22	18.85	1.69	38.92	20.56	1.45							
80 (26.7)	67 (19.4)	744	26.77	18.85	2.57	801	28.80	20.17	2.24	842	30.80	21.51	1.96	887	32.83	22.97	1.71	1001	35.29	25.26	1.48	
	63 (17.2)		24.72	21.24	2.56		26.62	23.01	2.23		28.48	24.54	1.97		30.35	26.20	1.72		32.64	28.94	1.50	
	57 (13.9)		23.28	23.28	2.55		25.15	25.15	2.23		26.88	26.88	1.97		28.66	28.66	1.73		31.18	31.18	1.52	
	72 (22.2)		25.50	10.32	2.25		17.80	7.20	1.03		19.19	7.76	0.86		20.61	8.34	0.70		22.05	8.92	0.55	
	67 (19.4)		23.02	13.19	2.25		16.09	9.17	1.06		17.34	9.88	0.90		18.62	10.62	0.74		19.92	11.37	0.60	
75 (23.9)	63 (17.2)	662	21.21	15.43	2.25	457	14.83	10.71	1.07	482	15.98	11.55	0.92	508	17.16	12.41	0.77	534	18.35	13.29	0.64	
	57 (13.9)		18.95	18.71	2.24		13.20	12.99	1.09		14.23	14.01	0.95		15.29	15.05	0.81		16.35	16.12	0.68	
	72 (22.2)		25.43	13.24	2.25		17.75	9.19	1.03		19.14	9.91	0.86		20.56	10.65	0.70		21.99	11.40	0.55	
	67 (19.4)		22.97	16.07	2.25		16.05	11.14	1.06		17.30	12.01	0.90		18.57	12.91	0.74		19.86	13.83	0.60	
	63 (17.2)		21.20	18.29	2.25		14.82	12.68	1.07		15.97	13.68	0.92		17.15	14.70	0.77		18.34	15.74	0.63	
57 (13.9)	20.00	20.00	2.25	13.83	13.93	1.08	15.01	15.01	0.94	16.13	16.13	0.79	17.26	17.26	0.66							

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 5 – Compressor speed limited to stage four at 65 outdoor; Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 27

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB ° F (° C)	25VNA866 / FE4ANI8006L Comfort + Dehumidify Mode Condenser Entering Air Temperature ° F (° C)												Total Sys. KW			
	105 (40.5)			85 (29.4)			75 (23.9)			65 (18.3)						
	EWB ° F (° C)	Capacity MBtuh Total	ID SCFM	Total Sys. KW	Capacity MBtuh Total	ID SCFM	Total Sys. KW	Capacity MBtuh Total	ID SCFM	Total Sys. KW	Capacity MBtuh Total	ID SCFM				
STAGE 5																
75 (23.9)	72 (22.2)	56.98	22.75	6.30	61.18	24.39	5.69	65.39	26.02	5.16	69.54	27.67	4.65	72.77	28.99	4.11
	67 (19.4)	57.22	39.64	4.45	52.98	29.89	5.92	56.86	32.03	5.32	60.74	34.16	4.81	64.57	36.23	4.32
	63 (17.2)	50.09	48.04	4.68	52.36	48.62	4.14	50.15	35.79	5.59	53.79	38.31	5.01	57.43	40.86	4.52
	57 (13.9)	62.88	32.18	5.53	66.96	34.17	4.99	70.04	35.24	4.44	45.89	44.38	5.24	49.20	47.47	4.68
	72 (22.2)	54.69	37.56	5.71	58.47	40.09	5.17	62.20	42.47	4.65	64.99	43.29	4.12	61.11	31.39	5.46
80 (26.7)	67 (19.4)	48.26	40.83	5.99	51.80	43.73	5.39	55.34	46.67	4.87	58.85	49.38	4.37	61.43	50.01	3.85
	63 (17.2)	48.26	40.83	5.99	46.16	46.16	5.69	48.48	49.48	5.10	52.81	52.81	4.60	56.00	56.00	4.11
	57 (13.9)	45.30	45.30	5.89	48.58	48.58	5.29	51.87	51.87	4.77	54.71	54.71	4.27	57.84	57.84	3.87
	72 (22.2)	36.31	14.61	3.03	38.82	15.60	2.68	41.60	16.70	2.41	44.40	17.81	2.17	47.46	19.02	1.97
	67 (19.4)	32.79	18.86	3.00	35.12	19.95	2.63	37.63	21.32	2.37	40.17	22.70	2.13	42.96	24.35	1.93
75 (23.9)	63 (17.2)	30.18	21.81	2.97	32.38	23.34	2.61	34.71	24.92	2.34	37.06	26.53	2.10	39.65	28.52	1.91
	57 (13.9)	26.75	26.42	2.95	28.76	26.28	2.57	30.84	30.17	2.31	32.95	32.10	2.07	35.30	34.56	1.88
	72 (22.2)	36.22	18.72	3.03	38.73	19.96	2.68	41.49	21.36	2.41	44.30	22.74	2.17	47.35	24.41	1.97
	67 (19.4)	32.71	22.72	3.00	35.04	24.28	2.63	37.54	25.92	2.37	40.08	27.58	2.13	42.87	29.65	1.93
	63 (17.2)	30.13	25.85	2.97	32.33	27.65	2.61	34.66	29.50	2.34	37.01	31.38	2.10	39.60	33.79	1.91
80 (26.7)	57 (13.9)	28.27	28.27	2.96	30.32	30.32	2.59	32.44	32.44	2.32	34.59	34.59	2.08	37.14	37.14	1.89
	72 (22.2)	26.49	10.68	1.96	19.30	7.79	1.08	20.56	8.28	0.94	22.21	8.94	0.76	23.90	9.82	0.61
	67 (19.4)	23.68	13.47	1.96	17.11	9.75	1.07	18.24	10.22	0.93	19.74	11.04	0.79	21.29	11.89	0.63
	63 (17.2)	21.61	15.04	1.95	15.49	11.27	1.06	16.55	11.74	0.93	17.93	12.67	0.79	19.36	13.65	0.64
	57 (13.9)	18.94	18.82	1.95	13.48	13.48	1.05	14.35	13.97	0.93	15.59	15.07	0.80	16.85	16.25	0.66
75 (23.9)	72 (22.2)	26.42	13.61	1.96	19.25	9.91	1.08	20.51	10.39	0.94	22.16	11.21	0.78	23.84	12.06	0.61
	67 (19.4)	23.63	16.38	1.96	17.06	11.86	1.07	18.20	12.32	0.93	19.69	13.29	0.79	21.24	14.31	0.63
	63 (17.2)	21.58	18.54	1.95	15.48	13.38	1.06	16.52	13.83	0.93	17.91	14.91	0.79	19.34	16.06	0.64
	57 (13.9)	20.17	20.17	1.95	14.47	14.47	1.05	15.19	15.19	0.93	16.42	16.42	0.80	17.73	17.73	0.65
	72 (22.2)	26.49	10.68	1.96	19.30	7.79	1.08	20.56	8.28	0.94	22.21	8.94	0.76	23.90	9.82	0.61
80 (26.7)	67 (19.4)	23.68	13.47	1.96	17.11	9.75	1.07	18.24	10.22	0.93	19.74	11.04	0.79	21.29	11.89	0.63
	63 (17.2)	21.61	15.04	1.95	15.49	11.27	1.06	16.55	11.74	0.93	17.93	12.67	0.79	19.36	13.65	0.64
	57 (13.9)	18.94	18.82	1.95	13.48	13.48	1.05	14.35	13.97	0.93	15.59	15.07	0.80	16.85	16.25	0.66
	72 (22.2)	26.42	13.61	1.96	19.25	9.91	1.08	20.51	10.39	0.94	22.16	11.21	0.78	23.84	12.06	0.61
	67 (19.4)	23.63	16.38	1.96	17.06	11.86	1.07	18.20	12.32	0.93	19.69	13.29	0.79	21.24	14.31	0.63
75 (23.9)	63 (17.2)	21.58	18.54	1.95	15.48	13.38	1.06	16.52	13.83	0.93	17.91	14.91	0.79	19.34	16.06	0.64
	57 (13.9)	20.17	20.17	1.95	14.47	14.47	1.05	15.19	15.19	0.93	16.42	16.42	0.80	17.73	17.73	0.65
	72 (22.2)	26.49	10.68	1.96	19.30	7.79	1.08	20.56	8.28	0.94	22.21	8.94	0.76	23.90	9.82	0.61
	67 (19.4)	23.68	13.47	1.96	17.11	9.75	1.07	18.24	10.22	0.93	19.74	11.04	0.79	21.29	11.89	0.63
	63 (17.2)	21.61	15.04	1.95	15.49	11.27	1.06	16.55	11.74	0.93	17.93	12.67	0.79	19.36	13.65	0.64
80 (26.7)	57 (13.9)	18.94	18.82	1.95	13.48	13.48	1.05	14.35	13.97	0.93	15.59	15.07	0.80	16.85	16.25	0.66
	72 (22.2)	26.42	13.61	1.96	19.25	9.91	1.08	20.51	10.39	0.94	22.16	11.21	0.78	23.84	12.06	0.61
	67 (19.4)	23.63	16.38	1.96	17.06	11.86	1.07	18.20	12.32	0.93	19.69	13.29	0.79	21.24	14.31	0.63
	63 (17.2)	21.58	18.54	1.95	15.48	13.38	1.06	16.52	13.83	0.93	17.91	14.91	0.79	19.34	16.06	0.64
	57 (13.9)	20.17	20.17	1.95	14.47	14.47	1.05	15.19	15.19	0.93	16.42	16.42	0.80	17.73	17.73	0.65

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
 Stage 5 — Compressor speed limited to stage four at 65 outdoor; Stage 1 — Compressor speed limited to stage two at 105 outdoor.

NOTES:
 † Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
 ‡ Sensible capacities are shown for both 80°F (27°C) and 75°F (24°C) entering air at the indoor coil.
 § For sensible capacities at other than these, deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above reference temperature.
 # Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
 ** System kw is total of indoor and outdoor unit kilowatts.

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

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE

INDOOR AIR		25VNA813 / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)																													
		7 (-13.9)					17 (-8.3)					27 (-2.8)																			
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys. KWt																
		Total	Integ†			Total	Integ†			Total	Integ†		Total	Integ†																	
STAGE 5																															
65 (18.3)	420	5.94	5.46	0.75	600	11.17	10.18	1.13	500	12.84	11.40	1.16	12.84	11.40	1.16																
70 (21.1)	420	5.82	5.35	0.79	600	11.00	10.03	1.19	500	12.65	11.24	1.23	12.65	11.24	1.23																
75 (23.3)	420	5.70	5.24	0.83	600	10.83	9.88	1.26	500	12.46	11.07	1.29	12.46	11.07	1.29																
STAGE 3																															
65 (18.3)	300	5.45	5.01	0.77	300	6.69	6.10	0.82	420	8.14	7.23	0.74	8.14	7.23	0.74																
70 (21.1)	300	5.33	4.90	0.81	300	6.55	5.97	0.86	420	7.98	7.09	0.79	7.98	7.09	0.79																
75 (23.3)	300	5.22	4.79	0.86	300	6.41	5.85	0.91	420	7.83	6.95	0.84	7.83	6.95	0.84																
STAGE 1																															
65 (18.3)	300	5.45	5.01	0.77	300	6.69	6.10	0.81	420	7.65	6.79	0.76	7.65	6.79	0.76																
70 (21.1)	300	5.33	4.90	0.81	300	6.55	5.97	0.86	420	7.50	6.66	0.79	7.50	6.66	0.79																
75 (23.3)	300	5.22	4.79	0.86	300	6.42	5.85	0.91	420	7.34	6.52	0.84	7.34	6.52	0.84																
25VNA813 / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)																															
INDOOR AIR		37 (2.8)										47 (8.3)										57 (13.9)									
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	Capacity MBtuh		Total Sys. KWt												
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†		Total	Integ†													
STAGE 5																															
65 (18.3)	500	14.93	13.59	1.21	500	17.28	17.28	1.28	420	12.56	12.56	0.75	420	12.56	12.56	0.75	12.56	12.56	0.75												
70 (21.1)	500	14.70	13.37	1.28	500	17.00	17.00	1.35	420	12.24	12.24	0.81	420	12.24	12.24	0.81	12.24	12.24	0.81												
75 (23.3)	500	14.46	13.16	1.35	500	16.71	16.71	1.43	420	11.99	11.99	0.87	420	11.99	11.99	0.87	11.99	11.99	0.87												
STAGE 3																															
65 (18.3)	420	9.64	8.77	0.76	420	11.21	11.21	0.78	420	12.56	12.56	0.75	420	12.56	12.56	0.75	12.56	12.56	0.75												
70 (21.1)	420	9.45	8.60	0.82	420	10.97	10.97	0.83	420	12.18	12.18	0.81	420	12.18	12.18	0.81	12.18	12.18	0.81												
75 (23.3)	420	9.26	8.43	0.87	420	10.74	10.74	0.89	420	11.85	11.85	0.87	420	11.85	11.85	0.87	11.85	11.85	0.87												
STAGE 1																															
65 (18.3)	420	9.11	8.29	0.76	300	6.27	6.27	0.39	300	7.30	7.30	0.38	300	7.30	7.30	0.38	7.30	7.30	0.38												
70 (21.1)	420	8.93	8.13	0.81	300	6.10	6.10	0.43	300	7.07	7.07	0.43	300	7.07	7.07	0.43	7.07	7.07	0.43												
75 (23.3)	420	8.74	7.96	0.87	300	5.93	5.93	0.47	300	6.86	6.86	0.47	300	6.86	6.86	0.47	6.86	6.86	0.47												

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.

See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA824B / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)						27 (-2.8)																
		7 (-13.9)			17 (-8.3)			Capacity MBtuh			ID SCFM			Total Sys. KWt			Capacity MBtuh			ID SCFM			Total Sys. KWt	
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
65 (18.3)	450	12.00	11.03	1.37	825	15.76	14.37	1.69	825	18.37	16.31	1.74	825	18.18	16.15	1.83	825	17.99	15.98	1.92	825	18.37	16.31	1.74
70 (21.1)		11.90	10.93	1.45		15.80	14.22	1.77		18.18	16.15	1.83												
75 (23.3)		11.70	10.75	1.50		15.44	14.07	1.86		17.99	15.98	1.92												
65 (18.3)	300	8.37	7.69	0.89	500	10.11	9.21	0.88	500	11.81	10.49	0.90	500	11.61	10.31	0.96	500	11.41	10.13	1.01	500	11.81	10.49	0.90
70 (21.1)		8.22	7.56	0.94		9.93	9.05	0.93		11.61	10.31	0.96												
75 (23.3)		8.07	7.42	0.98		9.75	8.89	0.99		11.41	10.13	1.01												
65 (18.3)	300	8.37	7.69	0.89	500	10.10	9.21	0.88	500	10.55	9.37	0.81	500	10.36	9.20	0.84	500	10.17	9.03	0.89	500	10.55	9.37	0.88
70 (21.1)		8.22	7.56	0.94		9.93	9.05	0.93		10.36	9.20	0.84												
75 (23.3)		8.07	7.42	0.98		9.75	8.89	0.99		10.17	9.03	0.89												

INDOOR AIR		25VNA824B / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)						57 (13.9)																
		37 (2.8)			47 (8.3)			Capacity MBtuh			ID SCFM			Total Sys. KWt			Capacity MBtuh			ID SCFM			Total Sys. KWt	
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
65 (18.3)	825	21.73	19.77	1.82	825	24.94	24.94	1.89	825	24.60	24.60	1.99	825	24.26	24.26	2.10	825	24.94	24.94	1.89	825	26.71	26.71	1.01
70 (21.1)		21.46	19.52	1.92		24.60	24.60	1.99		26.71	26.71	1.01												
75 (23.3)		21.18	19.27	2.02		24.26	24.26	2.10		26.03	26.03	1.16												
65 (18.3)	650	13.45	12.24	0.95	650	15.09	15.09	0.99	650	16.71	16.71	1.01	650	16.38	16.38	1.09	650	16.71	16.71	1.01	650	16.71	16.71	1.01
70 (21.1)		13.21	12.02	1.01		14.83	14.83	1.06		16.38	16.38	1.09												
75 (23.3)		12.98	11.81	1.07		14.56	14.56	1.13		16.07	16.07	1.16												
65 (18.3)	650	11.91	10.84	0.81	585	7.42	7.42	0.37	585	7.98	7.98	0.37	585	7.74	7.74	0.42	585	7.98	7.98	0.37	585	7.98	7.98	0.37
70 (21.1)		11.62	10.58	0.87		7.20	7.20	0.42		7.74	7.74	0.42												
75 (23.3)		11.38	10.35	0.93		6.99	6.99	0.46		7.52	7.52	0.47												

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA825 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	450	13.73	12.61	1.94	825	20.11	18.34	2.16	825	22.21	19.73	2.08	825	22.21	19.73	2.08
70 (21.1)		13.57	12.47	2.01		19.90	18.14	2.26		21.97	19.52	2.17				
75 (23.3)		13.48	12.39	2.08		19.71	17.97	2.36		21.73	19.30	2.27				
STAGE 3																
65 (18.3)	340	9.32	8.57	1.42	500	11.26	10.27	1.36	500	13.17	11.70	1.22	500	13.17	11.70	1.22
70 (21.1)		9.21	8.46	1.48		11.11	10.13	1.42		12.99	11.54	1.29				
75 (23.3)		9.10	8.38	1.54		10.96	10.00	1.48		12.82	11.39	1.35				
STAGE 1																
65 (18.3)	340	9.32	8.56	1.42	500	11.23	10.24	1.35	500	8.59	7.63	0.80	500	8.59	7.63	0.80
70 (21.1)		9.19	8.45	1.48		11.07	10.10	1.41		8.45	7.50	0.83				
75 (23.3)		9.07	8.34	1.53		10.87	9.91	1.47		8.30	7.37	0.88				

INDOOR AIR		25VNA825 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	825	25.00	22.75	2.11	825	27.16	27.16	2.11	825	19.19	19.19	1.28	825	19.19	19.19	1.28
70 (21.1)		24.69	22.46	2.21		26.80	26.80	2.21		19.22	19.22	1.36				
75 (23.3)		24.36	22.17	2.31		26.41	26.41	2.31		18.44	18.44	1.42				
STAGE 3																
65 (18.3)	650	15.11	13.75	1.25	650	17.04	17.04	1.25	650	19.10	19.10	1.27	650	19.10	19.10	1.27
70 (21.1)		14.89	13.55	1.32		16.77	16.77	1.32		18.78	18.78	1.35				
75 (23.3)		14.67	13.35	1.39		16.51	16.51	1.40		18.44	18.44	1.42				
STAGE 1																
65 (18.3)	650	10.20	9.28	0.80	585	7.58	7.58	0.44	585	9.05	9.05	0.42	585	9.05	9.05	0.42
70 (21.1)		9.99	9.09	0.85		7.40	7.40	0.48		8.83	8.83	0.47				
75 (23.3)		9.81	8.93	0.90		7.22	7.22	0.52		8.62	8.62	0.52				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA836 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	450	16.00	14.70	2.35	1200	23.19	21.15	2.51	1200	26.38	23.43	2.48	1200	26.13	23.21	2.60
70 (21.1)		15.90	14.61	2.44		23.00	20.97	2.61		26.13	23.21	2.60				
75 (23.3)		15.75	14.48	2.53		22.80	20.79	2.72		25.87	22.98	2.71				
STAGE 3																
65 (18.3)	360	10.11	9.29	1.52	500	12.21	11.13	1.49	500	14.64	13.01	1.31	500	14.47	12.85	1.38
70 (21.1)		9.99	9.18	1.58		12.06	10.99	1.56		14.47	12.85	1.38				
75 (23.3)		9.87	9.07	1.64		11.91	10.86	1.63		14.29	12.69	1.45				
STAGE 1																
65 (18.3)	360	10.10	9.28	1.51	500	12.21	11.14	1.49	500	10.13	9.00	0.92	500	9.98	8.86	0.96
70 (21.1)		9.98	9.17	1.57		12.06	11.00	1.56		9.98	8.86	0.96				
75 (23.3)		9.85	9.06	1.64		11.92	10.86	1.63		9.83	8.73	1.01				

INDOOR AIR		25VNA836 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	1200	30.62	27.87	2.60	1200	34.60	34.60	2.69	900	22.12	22.12	1.39	900	21.86	21.86	1.48
70 (21.1)		30.29	27.56	2.72		34.20	34.20	2.82		21.86	21.86	1.48				
75 (23.3)		29.94	27.24	2.84		33.79	33.79	2.94		21.51	21.51	1.57				
STAGE 3																
65 (18.3)	900	17.02	15.49	1.35	900	19.45	19.45	1.35	900	22.19	22.19	1.38	900	21.81	21.81	1.47
70 (21.1)		16.79	15.28	1.42		19.17	19.17	1.44		21.81	21.81	1.47				
75 (23.3)		16.57	15.06	1.50		18.89	18.89	1.52		21.45	21.45	1.56				
STAGE 1																
65 (18.3)	900	11.92	10.84	0.92	700	7.88	7.88	0.44	700	9.16	9.16	0.42	700	8.95	8.95	0.47
70 (21.1)		11.73	10.68	0.98		7.70	7.70	0.49		8.95	8.95	0.47				
75 (23.3)		11.55	10.51	1.04		7.52	7.52	0.53		8.74	8.74	0.52				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA837 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
		ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh	
EDB ° F (° C)	Total	Integ†		Total	Integ†			Total	Integ†			Total	Integ†			
STAGE 5 - FE4ANB006L ONLY																
65 (18.3)	15.01	13.79	1.95	1200	30.72	28.01	3.22	1200	34.01	30.20	3.21	1200	33.69	29.92	3.35	3.21
70 (21.1)	14.67	13.48	2.00	1200	30.40	27.72	3.35	1200	33.69	29.92	3.35	1200	33.69	29.92	3.35	3.35
75 (23.3)	14.23	13.08	2.04	1200	30.00	27.36	3.47	1200	33.30	29.58	3.48	1200	33.30	29.58	3.48	3.48
STAGE 5 - OTHER COILS																
65 (18.3)	14.91	13.70	1.98	1200	30.72	28.01	3.22	1200	34.01	30.20	3.21	1200	33.69	29.92	3.35	3.21
70 (21.1)	14.50	13.33	2.02	1200	30.40	27.72	3.35	1200	33.69	29.92	3.35	1200	33.69	29.92	3.35	3.35
75 (23.3)	14.00	12.87	2.05	1200	30.00	27.36	3.47	1200	33.30	29.58	3.48	1200	33.30	29.58	3.48	3.48
STAGE 3 - FE4ANB006L ONLY																
65 (18.3)	12.11	11.13	1.72	500	14.47	13.20	1.82	500	17.03	15.12	1.63	500	16.82	14.94	1.71	1.63
70 (21.1)	11.88	10.92	1.78	500	14.26	13.00	1.89	500	16.82	14.94	1.71	500	16.82	14.94	1.71	1.71
75 (23.3)	11.58	10.64	1.83	500	14.02	12.78	1.96	500	16.60	14.74	1.80	500	16.60	14.74	1.80	1.80
STAGE 3 - OTHER COILS																
65 (18.3)	11.82	10.86	1.82	500	14.47	13.19	1.82	500	17.03	15.12	1.63	500	16.82	14.94	1.71	1.63
70 (21.1)	11.45	10.52	1.85	500	14.26	13.00	1.89	500	16.82	14.94	1.71	500	16.82	14.94	1.71	1.71
75 (23.3)	11.00	10.11	1.86	500	14.02	12.78	1.96	500	16.60	14.74	1.80	500	16.60	14.74	1.80	1.80
STAGE 1 - FE4ANB006L ONLY																
65 (18.3)	12.11	11.13	1.72	500	14.47	13.19	1.82	500	17.03	15.12	1.63	500	16.82	14.94	1.71	1.63
70 (21.1)	11.88	10.91	1.78	500	14.25	12.99	1.89	500	16.80	14.92	1.75	500	16.80	14.92	1.75	1.75
75 (23.3)	11.58	10.64	1.83	500	14.01	12.78	1.96	500	16.60	14.74	1.85	500	16.60	14.74	1.85	1.85
STAGE 1 - OTHER COILS																
65 (18.3)	11.83	10.87	1.83	500	14.47	13.19	1.82	500	17.03	15.12	1.66	500	16.82	14.94	1.75	1.66
70 (21.1)	11.45	10.52	1.85	500	14.25	12.99	1.89	500	16.80	14.92	1.75	500	16.80	14.92	1.75	1.75
75 (23.3)	11.00	10.11	1.86	500	14.01	12.78	1.96	500	16.60	14.74	1.85	500	16.60	14.74	1.85	1.85

INDOOR AIR		25VNA837 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
		ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh	
EDB ° F (° C)	Total	Integ†		Total	Integ†			Total	Integ†			Total	Integ†			
STAGE 5 - FE4ANB006L ONLY																
65 (18.3)	37.61	34.23	3.24	1200	40.49	40.49	3.21	900	25.27	25.27	1.66	900	25.27	25.27	1.66	1.66
70 (21.1)	37.20	33.85	3.38	1200	40.00	40.00	3.35	900	24.90	24.90	1.75	900	24.90	24.90	1.75	1.75
75 (23.3)	36.77	33.46	3.52	1200	39.49	39.49	3.48	900	24.49	24.49	1.85	900	24.49	24.49	1.85	1.85
STAGE 5 - OTHER COILS																
65 (18.3)	37.61	34.23	3.24	1200	40.49	40.49	3.21	900	25.27	25.27	1.66	900	25.27	25.27	1.66	1.66
70 (21.1)	37.20	33.85	3.38	1200	40.00	40.00	3.35	900	24.90	24.90	1.75	900	24.90	24.90	1.75	1.75
75 (23.3)	36.77	33.46	3.52	1200	39.49	39.49	3.48	900	24.49	24.49	1.85	900	24.49	24.49	1.85	1.85
STAGE 3 - FE4ANB006L ONLY																
65 (18.3)	19.68	17.91	1.65	900	22.48	22.48	1.66	900	25.26	25.26	1.66	900	25.26	25.26	1.66	1.66
70 (21.1)	19.42	17.67	1.74	900	22.17	22.17	1.75	900	24.82	24.82	1.75	900	24.82	24.82	1.75	1.75
75 (23.3)	19.15	17.43	1.83	900	21.84	21.84	1.84	900	24.43	24.43	1.85	900	24.43	24.43	1.85	1.85
STAGE 3 - OTHER COILS																
65 (18.3)	19.68	17.91	1.65	900	22.48	22.48	1.66	900	25.26	25.26	1.66	900	25.26	25.26	1.66	1.66
70 (21.1)	19.42	17.67	1.74	900	22.17	22.17	1.75	900	24.82	24.82	1.75	900	24.82	24.82	1.75	1.75
75 (23.3)	19.15	17.43	1.83	900	21.84	21.84	1.84	900	24.43	24.43	1.85	900	24.43	24.43	1.85	1.85
STAGE 1 - FE4ANB006L ONLY																
65 (18.3)	16.65	15.15	1.51	700	11.61	11.61	0.70	700	14.22	14.22	0.88	700	14.22	14.22	0.88	0.88
70 (21.1)	16.42	14.94	1.60	700	11.40	11.40	0.76	700	13.94	13.94	0.81	700	13.94	13.94	0.81	0.81
75 (23.3)	16.18	14.73	1.68	700	11.19	11.19	0.82	700	13.65	13.65	0.81	700	13.65	13.65	0.81	0.81
STAGE 1 - OTHER COILS																
65 (18.3)	16.65	15.15	1.51	700	11.61	11.61	0.70	700	14.22	14.22	0.88	700	14.22	14.22	0.88	0.88
70 (21.1)	16.42	14.94	1.60	700	11.40	11.40	0.76	700	13.94	13.94	0.81	700	13.94	13.94	0.81	0.81
75 (23.3)	16.18	14.73	1.68	700	11.19	11.19	0.82	700	13.65	13.65	0.81	700	13.65	13.65	0.81	0.81

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 - Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** - Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA848 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	700	22.65	20.82	2.72	1600	35.57	32.43	3.74	1600	40.44	35.92	3.87	1600	40.44	35.92	3.87
70 (21.1)		22.10	20.31	2.77		35.20	32.09	3.88		40.08	35.59	4.02				
75 (23.3)		20.89	19.19	2.73		34.73	31.67	4.00		39.66	35.23	4.17				
STAGE 3																
65 (18.3)	600	17.23	15.83	2.08	700	20.52	18.71	2.19	700	24.10	21.40	2.18	700	24.10	21.40	2.18
70 (21.1)		16.82	15.46	2.13		20.25	18.46	2.29		23.86	21.19	2.29				
75 (23.3)		16.32	15.00	2.17		19.94	18.18	2.37		23.61	20.97	2.40				
STAGE 1																
65 (18.3)	600	17.23	15.83	2.08	700	20.51	18.70	2.19	700	20.26	17.99	1.88	700	20.26	17.99	1.88
70 (21.1)		16.82	15.46	2.13		20.24	18.45	2.28		20.03	17.79	1.97				
75 (23.3)		16.32	15.00	2.17		19.93	18.17	2.37		19.81	17.60	2.07				

INDOOR AIR		25VNA848 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	1600	46.06	41.92	4.02	1600	51.02	51.02	4.13	1600	57.74	35.74	2.39	1600	57.74	35.74	2.39
70 (21.1)		45.63	41.52	4.18		50.50	50.50	4.30		35.29	35.29	2.51				
75 (23.3)		45.16	41.10	4.34		49.96	49.96	4.47		34.80	34.80	2.64				
STAGE 3																
65 (18.3)	1275	27.80	25.30	2.26	1275	31.75	31.75	2.33	1275	35.74	35.74	2.39	1275	35.74	35.74	2.39
70 (21.1)		27.51	25.03	2.37		31.38	31.38	2.45		35.28	35.28	2.51				
75 (23.3)		27.20	24.76	2.49		31.01	31.01	2.58		34.80	34.80	2.64				
STAGE 1																
65 (18.3)	1275	23.56	21.44	1.94	1000	16.14	16.14	0.88	1000	18.69	18.69	0.87	1000	18.69	18.69	0.87
70 (21.1)		23.29	21.19	2.04		15.90	15.90	0.95		18.40	18.40	0.94				
75 (23.3)		23.01	20.94	2.15		15.65	15.65	1.02		18.10	18.10	1.02				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

INDOOR AIR		25VNA860 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	840	29.44	27.05	3.99	1800	48.43	44.16	6.49	1600	55.69	49.46	6.61				
70 (21.1)		29.47	27.09	4.22		49.06	44.73	7.02		56.12	49.84	7.10				
75 (23.3)		29.57	27.17	4.47		49.80	45.40	7.61		56.61	50.28	7.63				
STAGE 3																
65 (18.3)	700	20.47	18.81	2.46	900	24.06	21.94	2.99	1275	28.38	25.21	2.32				
70 (21.1)		20.30	18.66	2.58		23.86	21.75	2.51		28.08	24.94	2.44				
75 (23.3)		20.25	18.60	2.73		23.67	21.58	2.64		27.78	24.68	2.56				
STAGE 1																
65 (18.3)	700	20.47	18.81	2.46	900	24.06	21.93	2.99	1275	21.17	18.80	1.57				
70 (21.1)		20.31	18.66	2.58		23.85	21.75	2.51		20.88	18.55	1.56				
75 (23.3)		20.27	18.62	2.73		23.66	21.57	2.64		20.60	18.30	1.65				

INDOOR AIR		25VNA860 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	1600	64.63	58.81	6.84	1600	73.25	73.25	7.06	1400	43.82	43.82	2.61				
70 (21.1)		64.85	59.01	7.31		73.27	73.27	7.50		43.06	43.06	2.72				
75 (23.3)		65.13	59.27	7.81		73.33	73.33	7.98		42.35	42.35	2.83				
STAGE 3																
65 (18.3)	1275	33.13	30.14	2.42	1275	38.00	38.00	2.52	1400	43.82	43.82	2.61				
70 (21.1)		32.71	29.76	2.53		37.45	37.45	2.63		43.06	43.06	2.72				
75 (23.3)		32.29	29.38	2.65		36.91	36.91	2.75		42.35	42.35	2.83				
STAGE 1																
65 (18.3)	1275	24.69	22.46	1.57	900	16.76	16.76	0.84	900	19.39	19.39	0.96				
70 (21.1)		24.31	22.12	1.66		16.40	16.40	0.93		18.97	18.97	1.06				
75 (23.3)		23.94	21.78	1.76		16.04	16.04	1.02		18.56	18.56	1.16				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE

INDOOR AIR		25VNA813 / FE4ANF002L Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)										
		7 (-13.9)		17 (-8.3)		27 (-2.8)		ID SCFM		Total Sys. KWt		
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		ID SCFM	Total Sys. KWt	Capacity MBtuh		Total Sys. KWt
		Total	Integ†	Total	Integ†	Total	Integ†			Total	Integ†	
STAGE 5												
65 (18.3)	204	5.70	5.23	10.64	9.70	1.38	262	311	12.42	11.03	1.34	
70 (21.1)		5.56	5.13	10.48	9.56	1.44			12.23	10.86	1.41	
75 (23.3)		5.46	5.02	10.32	9.41	1.50			12.04	10.70	1.47	
STAGE 3												
65 (18.3)	205	5.32	4.88	6.48	5.91	0.91	205	233	7.76	6.89	0.88	
70 (21.1)		5.20	4.78	6.35	5.79	0.95			7.61	6.75	0.93	
75 (23.3)		5.09	4.66	6.21	5.67	1.00			7.45	6.62	0.96	
STAGE 1												
65 (18.3)	205	5.32	4.88	6.49	5.91	0.91	205	209	7.21	6.40	0.96	
70 (21.1)		5.20	4.78	6.35	5.79	0.95			7.05	6.26	0.95	
75 (23.3)		5.09	4.68	6.22	5.67	1.00			6.90	6.13	1.00	

INDOOR AIR		25VNA813 / FE4ANF002L Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)										
		37 (2.8)		47 (8.3)		57 (13.9)		ID SCFM		Total Sys. KWt		
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		ID SCFM	Total Sys. KWt	Capacity MBtuh		Total Sys. KWt
		Total	Integ†	Total	Integ†	Total	Integ†			Total	Integ†	
STAGE 5												
65 (18.3)	360	14.49	13.18	16.89	16.89	1.38	409	302	12.00	12.00	0.87	
70 (21.1)		14.26	12.98	16.61	16.61	1.45			11.59	11.59	0.92	
75 (23.3)		14.03	12.77	16.33	16.33	1.52			11.35	11.35	0.98	
STAGE 3												
65 (18.3)	261	9.19	8.37	10.73	10.73	0.90	289	302	12.00	12.00	0.87	
70 (21.1)		9.01	8.20	10.49	10.49	0.95			11.56	11.56	0.92	
75 (23.3)		8.82	8.03	10.25	10.25	1.01			11.31	11.31	0.98	
STAGE 1 - FE4ANF005 ONLY												
65 (18.3)	213	8.46	7.70	5.63	5.63	0.53	150	150	6.42	6.42	0.56	
70 (21.1)		8.28	7.53	5.47	5.47	0.57			6.24	6.24	0.60	
75 (23.3)		8.09	7.37	5.30	5.30	0.60			6.06	6.06	0.64	

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.

See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA824B / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
65 (18.3)	450	12.00	11.03	1.37	825	15.76	14.37	1.69	825	18.37	16.31	1.74	825	18.18	16.15	1.83
70 (21.1)		11.90	10.93	1.45		15.60	14.22	1.77		16.15	14.07	1.86		17.99	15.98	1.92
75 (23.3)		11.70	10.75	1.50		15.44	14.07	1.86		17.99	15.98	1.92				
65 (18.3)	300	8.37	7.69	0.89	500	10.11	9.21	0.88	500	11.81	10.49	0.90	500	11.61	10.31	0.96
70 (21.1)		8.22	7.56	0.94		9.93	9.05	0.93		10.31	9.05	0.99		11.41	10.13	1.01
75 (23.3)		8.07	7.42	0.98		9.75	8.89	0.99		10.31	9.05	0.99				
65 (18.3)	300	8.37	7.69	0.89	500	10.11	9.21	0.88	500	11.81	10.49	0.90	500	11.61	10.31	0.96
70 (21.1)		8.22	7.56	0.94		9.93	9.05	0.93		10.31	9.05	0.99		11.41	10.13	1.01
75 (23.3)		8.07	7.42	0.98		9.75	8.89	0.99		10.31	9.05	0.99				

INDOOR AIR		25VNA824B / FE4ANF002L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
65 (18.3)	825	21.73	19.77	1.82	825	24.94	24.94	1.89	650	16.71	16.71	1.01	650	16.37	16.37	1.08
70 (21.1)		21.46	19.52	1.92		24.60	24.60	1.99		16.37	16.37	1.08				
75 (23.3)		21.18	19.27	2.02		24.26	24.26	2.10		16.03	16.03	1.16				
65 (18.3)	650	13.45	12.24	0.95	650	15.09	15.09	0.99	650	16.71	16.71	1.01	650	16.38	16.38	1.09
70 (21.1)		13.21	12.02	1.01		14.83	14.83	1.06		16.38	16.38	1.09				
75 (23.3)		12.98	11.81	1.07		14.56	14.56	1.13		16.07	16.07	1.16				
65 (18.3)	650	11.91	10.84	0.81	585	7.42	7.42	0.37	585	7.98	7.98	0.37	585	7.74	7.74	0.42
70 (21.1)		11.62	10.58	0.87		7.20	7.20	0.42		7.74	7.74	0.42				
75 (23.3)		11.38	10.35	0.93		6.99	6.99	0.46		7.52	7.52	0.47				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA825 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	450	13.73	12.61	1.94	825	20.11	18.34	2.16	825	22.21	19.73	2.08	825	21.97	19.52	2.17
70 (21.1)		13.48	12.39	2.01		19.90	18.14	2.26		21.73	19.30	2.27				
75 (23.3)		9.32	8.57	1.42		11.26	10.27	1.36		13.17	11.70	1.22				
STAGE 3																
65 (18.3)	340	9.21	8.46	1.48	500	11.11	10.13	1.42	500	12.99	11.54	1.29	500	12.82	11.39	1.35
70 (21.1)		9.10	8.38	1.54		10.96	10.00	1.48		12.82	11.39	1.35				
75 (23.3)		9.32	8.56	1.42		11.23	10.24	1.35		13.17	11.70	1.22				
STAGE 1																
65 (18.3)	340	9.19	8.45	1.48	500	11.07	10.10	1.41	500	12.99	11.54	1.29	500	12.82	11.39	1.35
70 (21.1)		9.07	8.34	1.53		10.87	9.91	1.47		12.82	11.39	1.35				
75 (23.3)		9.32	8.56	1.42		11.23	10.24	1.35		13.17	11.70	1.22				

INDOOR AIR		25VNA825 / FE4ANF005 Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	825	25.00	22.75	2.11	825	27.16	27.16	2.11	825	19.19	19.19	1.28	825	19.22	19.22	1.36
70 (21.1)		24.69	22.46	2.21		26.80	26.80	2.21		19.22	19.22	1.36				
75 (23.3)		24.36	22.17	2.31		26.41	26.41	2.31		18.44	18.44	1.42				
STAGE 3																
65 (18.3)	650	15.11	13.75	1.25	650	17.04	17.04	1.25	650	19.10	19.10	1.27	650	18.78	18.78	1.35
70 (21.1)		14.89	13.55	1.32		16.77	16.77	1.32		18.78	18.78	1.35				
75 (23.3)		14.67	13.35	1.39		16.51	16.51	1.40		18.44	18.44	1.42				
STAGE 1																
65 (18.3)	650	10.20	9.28	0.80	585	7.58	7.58	0.44	585	9.05	9.05	0.42	585	8.83	8.83	0.47
70 (21.1)		9.99	9.09	0.85		7.40	7.40	0.48		8.83	8.83	0.47				
75 (23.3)		9.81	8.93	0.90		7.22	7.22	0.52		8.62	8.62	0.52				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA836 / FE4ANF005 Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	434	16.04	14.74	2.38	595	22.29	20.33	2.79	735	25.50	22.65	2.67	735	25.50	22.65	2.67
70 (21.1)		15.86	14.57	2.46		22.09	20.14	2.90		25.24	22.42	2.79		25.24	22.42	2.79
75 (23.3)		15.74	14.46	2.56		21.88	19.95	3.01		24.99	22.20	2.90		24.99	22.20	2.90
STAGE 3																
65 (18.3)	277	9.92	9.11	1.64	325	11.82	10.78	1.69	425	13.89	12.34	1.55	425	13.89	12.34	1.55
70 (21.1)		9.80	9.01	1.70		11.68	10.65	1.76		13.71	12.18	1.62		13.71	12.18	1.62
75 (23.3)		9.69	8.90	1.76		11.53	10.52	1.83		13.54	12.02	1.69		13.54	12.02	1.69
STAGE 1 - FE4ANF005 ONLY																
65 (18.3)	277	9.90	9.10	1.63	277	11.61	10.59	1.79	341	9.37	8.32	1.09	341	9.37	8.32	1.09
70 (21.1)		9.78	8.99	1.69		11.46	10.45	1.85		9.22	8.19	1.14		9.22	8.19	1.14
75 (23.3)		9.66	8.88	1.75		11.32	10.32	1.92		9.06	8.05	1.20		9.06	8.05	1.20
STAGE 1 - ALL OTHER INDOOR COILS																
65 (18.3)	277	9.90	9.10	1.63	277	11.61	10.59	1.79	341	9.37	8.32	1.09	341	9.37	8.32	1.09
70 (21.1)		9.78	8.99	1.69		11.46	10.45	1.85		9.22	8.19	1.14		9.22	8.19	1.14
75 (23.3)		9.66	8.88	1.75		11.32	10.32	1.92		9.06	8.05	1.20		9.06	8.05	1.20

INDOOR AIR		25VNA836 / FE4ANF005 Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	874	29.79	27.11	2.72	1014	34.01	34.01	2.75	736	21.71	21.71	1.46	736	21.71	21.71	1.46
70 (21.1)		29.45	26.80	2.84		33.62	33.62	2.88		21.29	21.29	1.55		21.29	21.29	1.55
75 (23.3)		29.09	26.48	2.96		33.20	33.20	3.01		20.98	20.98	1.64		20.98	20.98	1.64
STAGE 3																
65 (18.3)	528	16.28	14.82	1.53	626	18.77	18.77	1.49	737	21.39	21.39	1.46	737	21.39	21.39	1.46
70 (21.1)		16.06	14.61	1.61		18.51	18.51	1.57		21.31	21.31	1.55		21.31	21.31	1.55
75 (23.3)		15.84	14.41	1.69		18.23	18.23	1.65		20.96	20.96	1.64		20.96	20.96	1.64
STAGE 1 - FE4ANF005 ONLY																
65 (18.3)	406	11.08	10.08	1.09	250	6.91	6.91	0.64	250	7.92	7.92	0.67	250	7.92	7.92	0.67
70 (21.1)		10.89	9.91	1.15		6.75	6.75	0.68		7.73	7.73	0.71		7.73	7.73	0.71
75 (23.3)		10.70	9.74	1.21		6.58	6.58	0.72		7.55	7.55	0.76		7.55	7.55	0.76
STAGE 1 - ALL OTHER INDOOR COILS																
65 (18.3)	406	11.09	10.09	1.09	199	6.61	6.61	0.72	217	7.68	7.68	0.73	217	7.68	7.68	0.73
70 (21.1)		10.89	9.91	1.15		6.46	6.46	0.76		7.50	7.50	0.77		7.50	7.50	0.77
75 (23.3)		10.70	9.74	1.21		6.31	6.31	0.80		7.31	7.31	0.82		7.31	7.31	0.82

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA837 / FE4ANB006L Heating Comfort Mode Outdoor Coil Entering Air Temperature °F (°C)												
		7 (-13.9)					17 (-8.3)							
		ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh			
EDB °F (°C)	Total	Integt		Total	Integt		Total	Integt	Total	Integt	Total Sys. KWt			
STAGE 5 - FE4ANB006L ONLY														
65 (18.3)	15.03	13.81	1.95	29.43	26.83	3.54	595	28.74	26.20	3.60	735	33.56	29.80	3.54
70 (21.1)	14.68	13.49	2.00	27.40	24.98	3.54		26.20	24.98	3.54		33.03	29.34	3.65
75 (23.3)	14.23	13.08	2.04					27.40	24.98	3.54		32.53	28.89	3.75
STAGE 5 - OTHER COILS														
65 (18.3)	14.85	13.64	1.99	29.43	26.83	3.54	595	28.74	26.20	3.60	735	33.56	29.80	3.54
70 (21.1)	14.41	13.25	2.03	27.40	24.98	3.54		26.20	24.98	3.54		33.03	29.34	3.65
75 (23.3)	13.90	12.78	2.05					27.40	24.98	3.54		32.53	28.89	3.75
STAGE 3 - FE4ANB006L ONLY														
65 (18.3)	12.11	11.13	1.72	14.47	13.20	1.82	500	14.26	13.00	1.89	500	16.81	14.93	1.86
70 (21.1)	11.88	10.91	1.76	14.01	12.78	1.96		14.01	12.78	1.96		16.58	14.73	1.94
75 (23.3)	11.58	10.64	1.83					14.01	12.78	1.96		16.33	14.51	2.02
STAGE 3 - OTHER COILS														
65 (18.3)	11.00	10.11	1.82	14.13	12.88	2.05	325	13.78	12.56	2.09	425	16.74	14.87	1.97
70 (21.1)	10.46	9.61	1.81	13.37	12.19	2.12		13.37	12.19	2.12		16.49	14.65	2.05
75 (23.3)	10.14	9.32	1.84					13.37	12.19	2.12		16.22	14.40	2.12
STAGE 1 - FE4ANB006L ONLY														
65 (18.3)	12.11	11.13	1.72	14.47	13.19	1.82	500	14.26	13.00	1.89	500	13.59	12.07	1.76
70 (21.1)	11.88	10.91	1.76	14.01	12.78	1.96		14.01	12.78	1.96		13.40	11.90	1.74
75 (23.3)	11.58	10.64	1.83					14.01	12.78	1.96		13.19	11.72	1.81
STAGE 1 - ALL OTHER INDOOR COILS														
65 (18.3)	11.00	10.11	1.82	13.71	12.50	2.11	277	13.27	12.09	2.12	341	13.42	11.92	1.92
70 (21.1)	10.47	9.62	1.81	12.79	11.66	2.13		12.79	11.66	2.13		13.19	11.72	1.98
75 (23.3)	10.14	9.32	1.84					12.79	11.66	2.13		12.95	11.50	2.04

INDOOR AIR		25VNA837 / FE4ANB006L Heating Comfort Mode Outdoor Coil Entering Air Temperature °F (°C)												
		37 (2.8)					47 (6.3)							
		ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh			
EDB °F (°C)	Total	Integt		Total	Integt		Total	Integt	Total	Integt	Total Sys. KWt			
STAGE 5 - FE4ANB006L ONLY														
65 (18.3)	37.18	33.84	3.48	40.10	40.10	3.34	1014	39.59	39.59	3.47	737	24.96	24.96	1.77
70 (21.1)	36.72	33.41	3.61	39.05	39.05	3.60		39.05	39.05	3.60		24.55	24.55	1.86
75 (23.3)	36.23	32.97	3.73					39.05	39.05	3.60		24.14	24.14	1.95
STAGE 5 - OTHER COILS														
65 (18.3)	37.18	33.84	3.48	40.10	40.10	3.34	1014	39.59	39.59	3.47	737	24.96	24.96	1.77
70 (21.1)	36.72	33.41	3.61	39.05	39.05	3.60		39.05	39.05	3.60		24.55	24.55	1.86
75 (23.3)	36.23	32.97	3.73					39.05	39.05	3.60		24.14	24.14	1.95
STAGE 3 - FE4ANB006L ONLY														
65 (18.3)	19.31	17.58	1.91	22.06	22.06	1.84	626	21.73	21.73	1.93	737	24.96	24.96	1.77
70 (21.1)	19.04	17.32	1.99	21.39	21.39	2.02		21.39	21.39	2.02		24.38	24.38	1.85
75 (23.3)	18.75	17.07	2.08					21.39	21.39	2.02		24.12	24.12	1.95
STAGE 3 - OTHER COILS														
65 (18.3)	19.31	17.58	1.91	22.06	22.06	1.84	626	21.73	21.73	1.93	737	24.96	24.96	1.77
70 (21.1)	19.04	17.32	1.99	21.39	21.39	2.02		21.39	21.39	2.02		24.55	24.55	1.86
75 (23.3)	18.75	17.07	2.08					21.39	21.39	2.02		24.14	24.14	1.95
STAGE 1 - FE4ANB006L ONLY														
65 (18.3)	16.30	14.84	1.76	11.40	11.40	0.77	500	11.19	11.19	0.83	500	13.86	13.86	0.77
70 (21.1)	16.06	14.62	1.84	10.97	10.97	0.89		11.19	11.19	0.83		13.45	13.45	0.83
75 (23.3)	15.81	14.39	1.92					10.97	10.97	0.89		13.18	13.18	0.89
STAGE 1 - OTHER COILS														
65 (18.3)	16.15	14.70	1.92	10.53	10.53	1.24	199	10.31	10.31	1.28	217	12.45	12.45	1.23
70 (21.1)	15.90	14.47	1.99	10.08	10.08	1.33		10.31	10.31	1.28		12.27	12.27	1.28
75 (23.3)	15.64	14.24	2.07					10.08	10.08	1.33		11.98	11.98	1.33

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 - Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** - Compressor speed limited to stage two at 27 and 37 outdoor.

See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA848 / FE4ANF005 Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	600	22.44	20.62	2.78	934	34.33	31.30	3.70	1139	39.97	35.50	3.80				
70 (21.1)		20.06	18.43	2.60		33.36	30.42	3.99		40.36	35.85	4.06				
75 (23.3)		20.34	18.69	2.57		32.54	29.67	3.83		39.62	35.19	4.44				
STAGE 3																
65 (18.3)	450	16.76	15.40	2.15	633	20.49	18.68	2.24	724	23.71	21.06	2.29				
70 (21.1)		15.82	14.54	2.03		20.28	18.49	2.36		23.55	20.92	2.43				
75 (23.3)		15.13	13.91	2.12		19.73	17.99	2.41		23.38	20.76	2.56				
STAGE 1																
65 (18.3)	450	16.80	15.44	2.16	569	20.44	18.64	2.30	629	19.82	17.80	1.98				
70 (21.1)		16.51	15.17	2.43		20.20	18.42	2.41		20.00	17.77	1.98				
75 (23.3)		13.93	12.80	2.31		18.49	16.86	2.70		19.83	17.61	2.09				

INDOOR AIR		25VNA848 / FE4ANF005 Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	1344	45.25	41.18	4.09	1550	50.80	50.80	4.12	996	35.14	35.14	2.47				
70 (21.1)		45.69	41.58	4.37		51.38	51.38	4.42		34.47	34.47	2.34				
75 (23.3)		46.09	41.94	4.66		51.92	51.92	4.74		34.72	34.72	2.52				
STAGE 3																
65 (18.3)	814	27.37	24.91	2.37	905	31.23	31.23	2.43	996	35.14	35.14	2.47				
70 (21.1)		27.16	24.72	2.51		30.96	30.96	2.58		34.84	34.84	2.62				
75 (23.3)		26.96	24.54	2.66		30.69	30.69	2.73		34.50	34.50	2.78				
STAGE 1																
65 (18.3)	680	23.02	20.95	2.06	350	15.27	15.27	1.19	403	17.49	17.49	1.15				
70 (21.1)		22.56	20.53	2.16		14.75	14.75	1.17		16.87	16.87	1.22				
75 (23.3)		22.78	20.73	2.16		14.36	14.36	1.23		16.27	16.27	1.20				

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** – Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.
 See additional notes on page 41

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

INDOOR AIR		25VNA860 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		7 (-13.9)					17 (-8.3)					27 (-2.8)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	840	29.44	27.05	3.99	1800	48.43	44.16	6.49	1600	55.69	49.46	6.61	1600	55.69	49.46	6.61
70 (21.1)	840	29.47	27.09	4.22	1800	49.06	44.73	7.02	1600	56.12	49.84	7.10	1600	56.12	49.84	7.10
75 (23.3)	840	29.57	27.17	4.47	1800	49.80	45.40	7.61	1600	56.61	50.28	7.63	1600	56.61	50.28	7.63
STAGE 3																
65 (18.3)	700	20.47	18.81	2.46	900	24.06	21.94	2.39	1275	28.38	25.21	2.32	1275	28.38	25.21	2.32
70 (21.1)	700	20.30	18.66	2.58	900	23.86	21.75	2.51	1275	28.08	24.94	2.44	1275	28.08	24.94	2.44
75 (23.3)	700	20.25	18.60	2.73	900	23.67	21.58	2.64	1275	27.78	24.68	2.56	1275	27.78	24.68	2.56
STAGE 1																
65 (18.3)	700	20.47	18.81	2.46	900	24.06	21.93	2.39	1275	21.17	18.80	1.57	1275	21.17	18.80	1.57
70 (21.1)	700	20.31	18.66	2.58	900	23.85	21.75	2.51	1275	20.88	18.55	1.56	1275	20.88	18.55	1.56
75 (23.3)	700	20.27	18.62	2.73	900	23.66	21.57	2.64	1275	20.60	18.30	1.65	1275	20.60	18.30	1.65

INDOOR AIR		25VNA860 / FE4ANB006L Heating Efficiency Mode Outdoor Coil Entering Air Temperature ° F (° C)														
		37 (2.8)					47 (8.3)					57 (13.9)				
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt	ID SCFM	Capacity MBtuh		Total Sys. KWt
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	1600	64.63	58.81	6.84	1600	73.25	73.25	7.06	1400	43.82	43.82	2.61	1400	43.82	43.82	2.61
70 (21.1)	1600	64.85	59.01	7.31	1600	73.27	73.27	7.50	1400	43.06	43.06	2.72	1400	43.06	43.06	2.72
75 (23.3)	1600	65.13	59.27	7.81	1600	73.33	73.33	7.98	1400	42.35	42.35	2.83	1400	42.35	42.35	2.83
STAGE 3																
65 (18.3)	1275	33.13	30.14	2.42	1275	38.00	38.00	2.52	900	19.39	19.39	0.96	900	19.39	19.39	0.96
70 (21.1)	1275	32.71	29.76	2.53	1275	37.45	37.45	2.63	900	18.97	18.97	1.06	900	18.97	18.97	1.06
75 (23.3)	1275	32.29	29.38	2.65	1275	36.91	36.91	2.75	900	18.56	18.56	1.16	900	18.56	18.56	1.16
STAGE 1																
65 (18.3)	1275	24.69	22.46	1.57	900	16.76	16.76	0.84	900	13.39	13.39	0.61	900	13.39	13.39	0.61
70 (21.1)	1275	24.31	22.12	1.66	900	16.40	16.40	0.93	900	13.16	13.16	0.61	900	13.16	13.16	0.61
75 (23.3)	1275	23.94	21.78	1.76	900	16.04	16.04	1.02	900	12.83	12.83	0.61	900	12.83	12.83	0.61

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 5 — Compressor speed limited to stage four at 7 and stage three at 57 outdoor; **Stage 1** — Compressor speed limited to stage three at 7 and 17 and to stage two at 27 and 37 outdoor.

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 system 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 system 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

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 unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A) 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.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

25VNA8

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

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- 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 tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, charge compensator, electronic expansion valve, and reversing valve.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron® refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.
- Compliant with IEC 61000-4-5 Transient Surge Requirement.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.
- Infinity control with appropriate software version is required for full featured operation.

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. This product is not qualified for low ambient cooling operation.
Minimum cooling outdoor operating temperatures:
 - Communicating systems: 40°F (4.44°C)
 - Non-communicating systems: 55°F (12.8°C)
3. The maximum outdoor operating ambient in cooling mode is 115°F (46.11°C).
4. Minimum outdoor operating air temperature for heating mode is 10°F (-12.2°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. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
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. Puron refrigerant TXV required on indoor coil.

