

**25VNA8 Infinity® 18VS
Variable Speed Heat Pump
with Puron® Refrigerant
2 – 5 Ton**



Product Data

INDUSTRY LEADING FEATURES / BENEFITS



INFINITY® 18VS

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 18 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.

Energy Efficiency

- Up to 18 SEER /12.5 EER / 11 HSPF
- Microtube Technology™ refrigeration system

Sound

- Sound level as low as 55 dBA in low speed (Silencer System II).
- 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 with version 11 software or newer for 5-stage operation.
 - 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
- Infinity intelligence monitors critical system parameters
- 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
- 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...		



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.



STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series				
	24A–30 24B–30	25–30	36–30	48–30	60–30
Puron Refrigerant	X	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X	X
Air–Cooled Integrated Inverter Drive	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X	X
Suction Pressure Transducer	X	X	X	X	X
High Pressure Switch	X	X	X	X	X
Internal Crankcase Heater	X	X	X	X	X
Utility Interface Connections	X	X	X	X	X
Enhanced Diagnostics with Infinity™ Touch Control with version 11 software or newer	X	X	X	X	X
Deluxe Sound Blanket	X	X	X	X	X
Outdoor Air Temperature Sensor	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)
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
24B–30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
24A–30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
25–30	7/8	0.0	0.1	0.3	0.3	0.4
	5/8	1.1	2.4	3.7	4.0	5.0
36–30	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
48–30	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
60–30	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*
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 airflows can be adjusted from these numbers in the Infinity Control Heat Pump Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Capacity Airflow	Highest Min Capacity Airflow	
2–Ton	739	263	222
3–Ton	990	289	236
4–Ton	1389	542	457
5–Ton	1600	700	600

Cooling – Efficiency Mode		
Size	Max Capacity Airflow	Highest Min Capacity Airflow
2–Ton	825	585
3–Ton	1050	600
4–Ton	1400	875
5–Ton	1800	975

Heating – Comfort Mode		
Size	Max Capacity Airflow	Highest Min Capacity Airflow
2–Ton	819	270
3–Ton	1014	226
4–Ton	1550	429
5–Ton	1600	500

Heating – Efficiency Mode		
Size	Max Capacity Airflow	Highest Min Capacity Airflow
2–Ton	825	585
3–Ton	1200	700
4–Ton	1600	1000
5–Ton	1600	900

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	24B-30	24A-30	25-30	36-30	48-30	60-30
Operating Weight lb (kg)	139 (63.0)	164 (74.4)	164 (74.4)	164 (74.4)	218 (99)	245 (111)
Shipping Weight lb (kg)	162 (73.5)	190 (86)	190 (86)	190 (86)	257 (117)	286 (130)
Compressor Type	Variable Speed Rotary					
REFRIGERANT	Puron® (R-410A)					
Control	TXV (Puron® Hard Shutoff)					
Charge lb (kg)	5.40 (2.45)	6.38 (2.89)	6.38 (2.89)	6.38 (2.89)	8.30 (3.76)	8.60 (3.90)
Outdoor Htg Exp. Device	EXV					
COND FAN	Forward Swept Propeller Type, Direct Drive					
Air Discharge	Vertical	Vertical	Vertical			Vertical
Air Qty (CFM)	2080	2500	2500	2500	4500	4500
Motor HP	1/5	1/3	1/3	1/3	1/3	1/3
Motor RPM	825	1050	1050	1050	850	900
COND COIL						
Face Area (Sq ft)	11.12	13.90	13.90	13.90	21.50	23.65
Fins per In.	20	20	20	20	20	20
Rows	1	1	1	1	1	1
Circuits	5	6	6	6	8	8
VALVE CONNECT. (In. ID)						
Vapor	5/8	3/4	3/4	3/4	7/8	7/8
Liquid	3/8					
REFRIGERANT TUBES (In. OD)						
Rated Vapor*	3/4	7/8	7/8	7/8	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		
24B-30	208-230-1	253	197	N/A	10.32	0.58	13.5	20
24A-30				N/A	17.70	1.20	23.6	40
25-30				N/A	17.70	1.20	23.6	40
36-30				N/A	18.30	1.20	24.4	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	
24-30	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
25-30	
36-30	
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
024B – 30	Freq (Hz)	1500 RPM	4700 RPM	5400 RPM
	125	40.5	44.0	45.5
	250	45.5	49.5	53.5
	500	41.5	53.0	56.0
	1000	44.0	52.5	54.0
	2000	39.0	50.5	53.0
	4000	34.5	53.0	56.5
	8000	31.0	45.0	45.5
	Sound Rating (dBA)	55	67	68
024A – 30	Freq (Hz)	1200 RPM	3300 RPM	4800 RPM
	125	43.0	53.0	51.5
	250	47.0	59.5	61.5
	500	51.0	62.5	62.5
	1000	49.5	63.5	63.5
	2000	42.5	63.0	61.5
	4000	35.5	63.5	62.0
	8000	46.0	54.0	54.5
	Sound Rating (dBA)	55	72	71
025 – 30	Freq (Hz)	1200 RPM	3300 RPM	4800 RPM
	125	43.0	52.0	52.5
	250	47.0	59.5	59.0
	500	51.0	64.5	61.5
	1000	49.5	63.0	62.0
	2000	42.5	60.0	60.0
	4000	35.5	59.5	64.0
	8000	46.0	50.5	54.5
	Sound Rating (dBA)	55	69	71
036 – 30	Freq (Hz)	1200 RPM	4800 RPM	5400 RPM
	125	43.0	53.0	51.5
	250	47.0	59.5	61.5
	500	51.0	62.5	62.5
	1000	49.5	63.5	63.5
	2000	42.5	63.0	61.5
	4000	35.5	63.5	62.0
	8000	46.0	54.0	54.5
	Sound Rating (dBA)	55	72	71
048 – 30	Freq (Hz)	1500 RPM	4320 RPM	5400 RPM
	125	49.5	59.0	52.5
	250	54.5	64.0	60.0
	500	54.0	66.0	63.5
	1000	54.5	64.5	64.0
	2000	52.0	63.5	63.0
	4000	54.5	63.5	65.5
	8000	46.5	53.0	59.0
	Sound Rating (dBA)	64	72	73
060 – 30	Freq (Hz)	1200 RPM	4140 RPM	5400 RPM
	125	39	49.5	46
	250	48	59.5	59
	500	46.5	62	60
	1000	45.5	60	57
	2000	39.5	58.5	56.5
	4000	36.5	55	56.5
	8000	35.5	48	54.5
	Sound Rating (dBA)	57	72	71

NOTE: Tested in compliance with AHRI 270–2008 but not listed with AHRI.

RPM-CAPACITY-SOUND (dBA)*

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
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
25VNA824A			
COOLING			
1	1200	38%	55
2	1900	58%	61
3	2400	73%	64
4	2600	79%	68
5	3300	100%	72
HEATING			
1	1200	25%	55
2	2400	50%	60
3	3300	69%	62
4	4200	88%	68
5	4800	100%	71
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
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 – A	Infinity Touch Control (non – Wi – Fi) version 11 or newer
SYSTXCCITC01 – A	Infinity Touch Control (Wi – Fi)
SYSTXCCITW01 – A	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

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	24B – 30	24A – 30 25 – 30	36 – 30	48 – 30	60 – 30
HK70EZ015	MODEL PLUG FOR FV4(A,B), FK, 40FK	X				
HK70EZ016	MODEL PLUG FOR FV4(A,B), FK, 40FK		X			
HK70EZ017	MODEL PLUG FOR FV4(A,B), FK, 40FK			X		
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
KSASF0101AAA	SPRT FEET KIT				X	X
KSASF0201AAA	SPRT FEET KIT	X	X	X		
KSATX0201PUR	TXV KIT	X	X			
KSATX0301PUR	TXV KIT			X		
KSATX0401PUR	TXV KIT				X	
KSATX0501PUR	TXV KIT					X
KSBTX0201PUR	TXV KIT		X			
KSBTX0301PUR	TXV KIT			X		
KSBTX0401PUR	TXV KIT				X	
LM10KK003	VAPOR LINE MUFFLER	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:

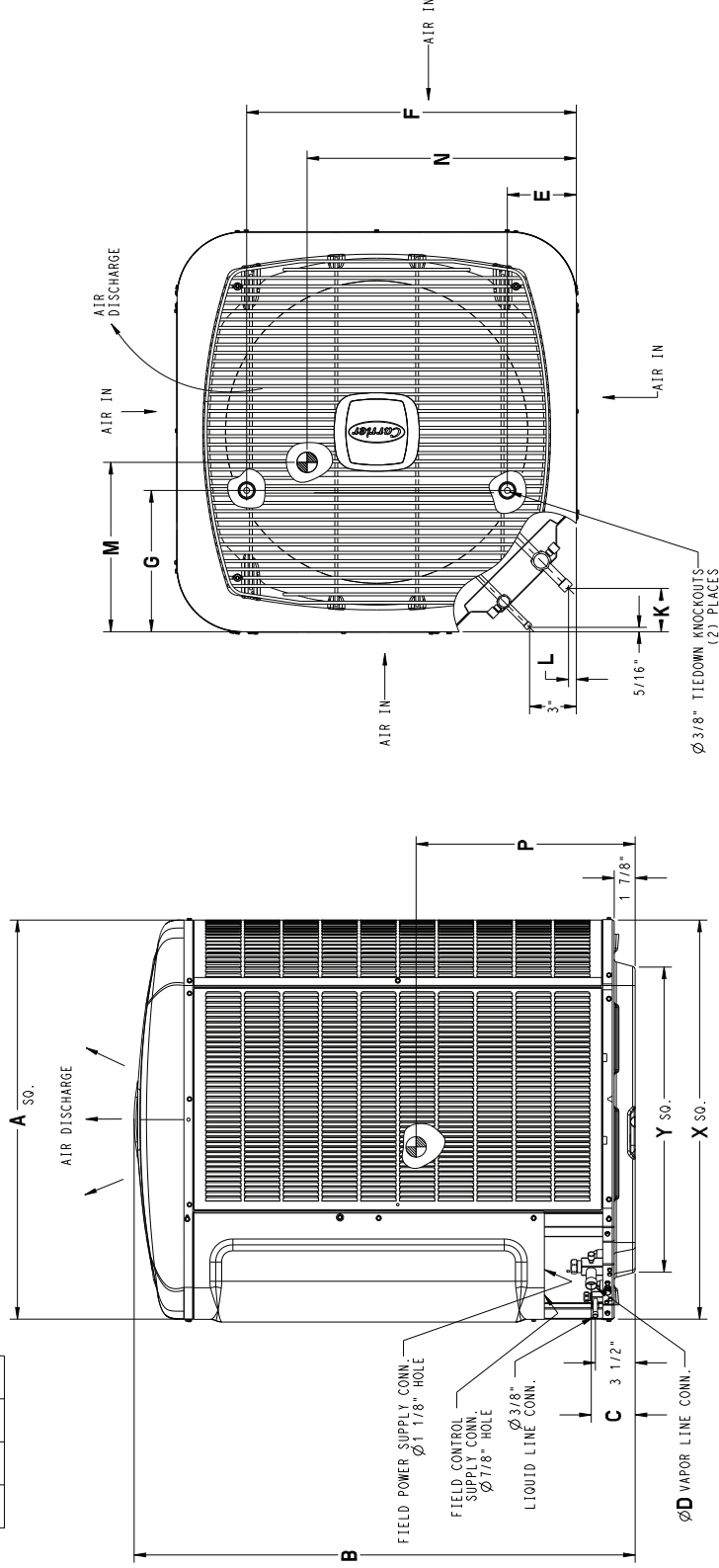
Recommended if vapor line is not installed per recommendations in the installation instructions and vibration may be transmitted into the structure.

DIMENSIONS - ENGLISH

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (lbs)	SHIPPING WEIGHT (lbs)	SHIPPING DIMENSIONS (L x W x H)
25VWA824A	0	X 0 0 0	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	164	190	25 1/4" X 25 1/4" X 43 3/8"
25VWA824B	0	X 0 0 0	23 1/8"	31 5/8"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	11 1/4"	11 1/4"	14 1/2"	139	162	25 1/4" X 25 1/4" X 35 5/8"
25VWA825A	0	X 0 0 0	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	164	190	25 1/4" X 25 1/4" X 43 3/8"
25VWA836A	0	X 0 0 0	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	164	190	25 1/4" X 25 1/4" X 43 3/8"
25VWA848A	0	X 0 0 0	31 3/16"	39 3/4"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	14 1/2"	14 5/8"	18 3/4"	218	257	33 3/8" X 33 3/8" X 46 1/8"
25VWA860A	0	X 0 0 0	31 3/16"	43 3/16"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	15"	20"	245	286	33 3/8" X 33 3/8" X 49 9/16"

X = YES
O = NO

208-230-160	230-160	208/230-360	460-3-60
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When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) above unit. For proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m) Position so water, snow, or ice from roof or eaves cannot fall directly on unit.

NOTE: 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with louver panels require 24" (609.6 mm) between units.

On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

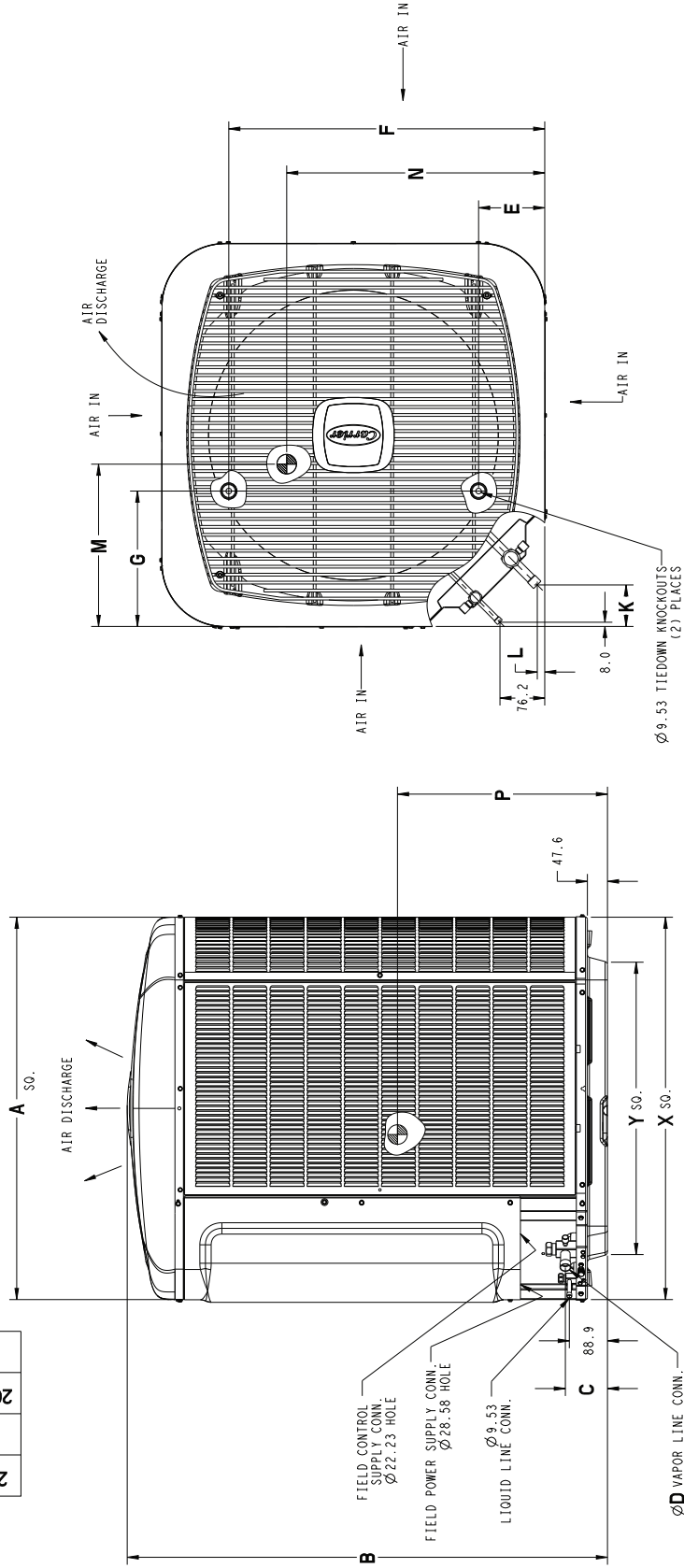
UNIT SIZE	X MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	Y MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
24, 25, 36	23 1/8"	17 3/4"
48, 60	25 3/4"	20 7/16"
	31 3/16"	23"
	35"	26 3/4"

DIMENSIONS - SI

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (Kgs)	SHIPPING WEIGHT (Kgs)	SHIPPING DIMENSIONS (L x W x H)
25VWA824A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	74.4	86.2	641.5 X 641.5 X 1102.2
25VWA824B	0	X 0 0 0	587.3	803.1	96.1	19.1	112.7	458.8	198.4	71.4	12.7	285.8	285.8	368.3	63.0	73.5	641.5 X 641.5 X 905.2
25VWA825A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	74.4	86.2	641.5 X 641.5 X 1102.2
25VWA836A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	74.4	86.2	641.5 X 641.5 X 1102.2
25VWA848A	0	X 0 0 0	792.2	1010.3	98.4	22.2	166.7	627.1	231.8	74.6	15.9	368.3	371.5	476.3	98.9	116.6	846.6 X 846.6 X 1172.2
25VWA860A	0	X 0 0 0	792.2	1096.7	98.4	22.2	166.7	627.1	231.8	74.6	15.9	419.1	381.0	508.0	111.1	129.7	846.6 X 846.6 X 1258.6

X = YES
0 = NO

208-230-160	230-160	208/230-360	460-360
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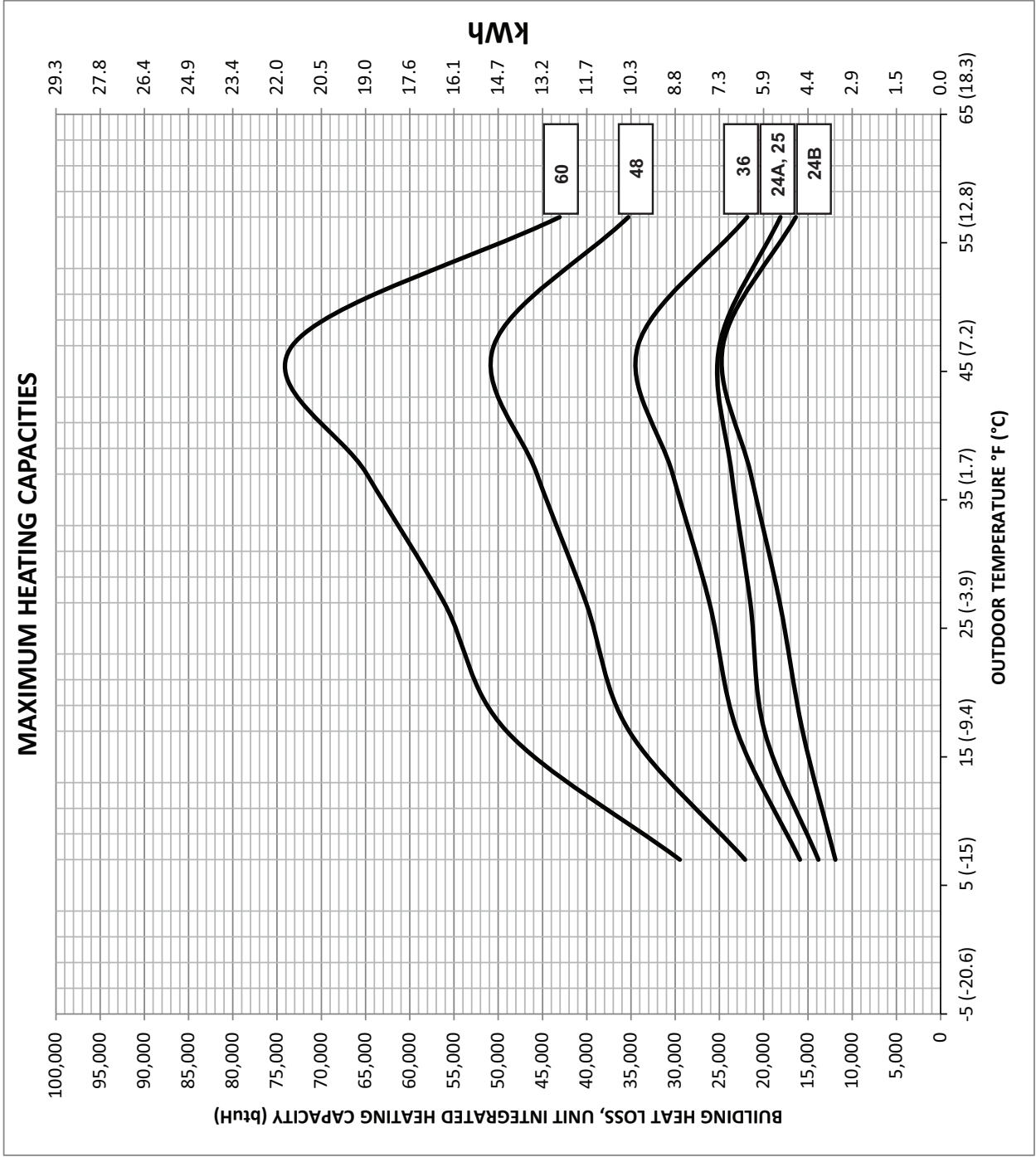
UNIT SIZE	"X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	"Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
24, 25, 36	587.4	451.3
-	654.0	518.5
48, 60	792.2	583.2
-	889.0	679.7

When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) (above unit). For proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m). Position so water, snow, or ice from roof or eaves cannot fall directly on unit.

NOTE: 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with lower panels require 24" (609.6 mm) between units.

On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

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

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmob.wrightsoft.com/>

Outdoor Model	Indoor Model	Furnace Model	Cooling				Heating				
			Cooling Cap.	SEER	EER	ID CFM	HSPF	High Temp		Low Temp	
								Capacity 47°F (8° C)	COP	Capacity 17°F (-8° C)	COP
25VNA824B**30	FE4ANF002L+UI		24,000	17.5	11.0	825	10.0	24,400	3.62	15,800	2.60
25VNA824B**30	FV4CNF002L		23,200	15.0	10.5	700	9.0	23,800	3.42	15,600	2.52
25VNA824A**30	FE4AN(B,F)005L+UI		24,000	17.0	11.0	825	10.0	25,000	3.32	19,900	2.01
25VNA824A**30	FV4CN(B,F)003L		23,000	15.5	11.0	700	8.0	25,000	2.97	19,900	2.00
25VNA825A**30	FE4AN(B,F)005L+UI		24,000	18.0	12.5	825	10.0	26,800	3.56	19,900	2.58
25VNA825A**30	FV4CN(B,F)003L		23,200	16.5	12.0	700	8.2	30,200	3.04	19,900	2.38
25VNA836A**30	FE4AN(B,F)005+UI		34,200	17.5	10.5	1,050	10.5	34,200	3.56	23,000	2.58
25VNA836A**30	FV4CN(B,F)005L		34,600	15.5	10.0	1,050	9.0	34,000	3.58	22,400	2.58
25VNA848A**30	FE4AN(B,F)005L+UI		46,000	18.0	11.0	1,400	11.0	50,500	3.44	35,200	2.66
25VNA860A**30	FE4ANB006L+UI		57,000	17.0	10.0	1,600	10.0	60,000	3.10	44,500	2.48
25VNA860A**30	FV4CNB006L		57,000	15.0	10.0	1,750	9.0	60,000	3.05	44,000	2.45

* 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

EVB AIR		25VNA824A / 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)										
EDB °F (C)	EWB °F (C)	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	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†								
STAGE 5																											
75 (23.9)	72 (22.2)	23.61	9.88	3.38	825	25.24	10.47	2.76	825	26.64	10.98	2.19	825	28.18	11.54	1.71	825	29.87	12.09	1.31	825	31.12	12.64	0.96			
	67 (19.4)	21.33	13.74	3.34		22.80	14.32	2.75		24.06	14.87	2.18		25.46	15.46	1.72		26.82	16.05	1.32		28.12	16.59	0.98			
	63 (17.2)	19.66	16.76	3.31		21.01	17.95	2.73		22.17	17.92	2.18		23.46	18.51	1.73		23.46	18.51	1.33		24.71	19.11	1.00	25.92	19.72	0.65
	57 (13.9)	18.72	18.72	3.30		19.79	19.79	2.72		20.71	20.71	2.17		21.71	21.71	1.73		21.71	21.71	1.34		22.87	22.67	1.01	23.60	23.80	0.65
	67 (19.4)	21.28	17.58	3.34		22.75	18.19	2.75		24.00	18.75	2.18		25.40	19.35	1.72		25.40	19.35	1.32		26.74	19.96	0.98	28.05	20.56	0.65
80 (26.7)	72 (22.2)	20.03	20.03	3.32	825	21.17	21.09	2.74	825	22.29	21.72	2.18	825	23.54	22.94	1.73	825	24.78	22.95	1.33	825	25.96	23.61	1.00			
	67 (19.4)	19.99	19.99	3.32		21.10	21.10	2.73		22.06	22.06	2.18		23.08	23.08	1.73		23.08	23.08	1.33		24.09	24.09	1.00	25.06	25.06	0.65
	63 (17.2)	15.43	6.56	1.86		16.55	6.96	1.57		17.40	7.27	1.23		18.52	7.59	0.99		18.52	7.59	0.78		19.58	8.06	0.60	20.65	8.45	0.60
	57 (13.9)	13.88	9.30	1.86		14.90	9.71	1.58		15.70	10.04	1.24		16.69	10.46	1.01		16.69	10.46	0.81		17.67	10.87	0.63	18.63	11.27	0.63
	67 (19.4)	12.80	11.44	1.85		13.73	11.87	1.59		14.47	12.22	1.24		15.39	12.85	1.02		15.39	12.85	0.83		16.27	13.10	0.65	17.17	13.48	0.65
80 (26.7)	72 (22.2)	12.38	12.38	1.85	650	13.13	13.13	1.59	650	13.73	13.73	1.25	650	14.44	14.44	1.03	650	15.14	15.14	0.84	650	15.81	15.81	0.67			
	67 (19.4)	15.37	9.34	1.86		16.49	9.75	1.57		17.33	10.09	1.23		18.42	10.48	0.99		18.42	10.48	0.78		19.51	10.89	0.60	20.58	11.27	0.60
	63 (17.2)	13.87	12.03	1.86		14.88	12.46	1.58		15.67	12.80	1.24		16.66	13.25	1.01		16.66	13.25	0.81		17.62	13.69	0.63	18.59	14.08	0.63
	57 (13.9)	13.28	13.28	1.86		14.07	14.07	1.59		14.69	14.69	1.24		15.58	15.21	1.02		15.58	15.21	0.83		16.44	15.74	0.65	17.23	16.25	0.65
	67 (19.4)	13.26	13.26	1.86		14.04	14.04	1.59		14.66	14.66	1.24		15.42	15.42	1.02		15.42	15.42	0.83		16.14	16.14	0.66	16.85	16.85	0.66
STAGE 1 - FE4ANF005 ONLY																											
75 (23.9)	72 (22.2)	11.91	5.24	1.08	650	12.82	5.56	1.00	650	10.38	4.52	0.57	650	11.19	4.70	0.49	650	11.92	5.07	0.40	650	12.67	5.34	0.30			
	67 (19.4)	10.68	7.75	1.09		11.52	8.07	1.01		9.32	6.80	0.59		10.00	6.88	0.52		10.00	6.88	0.44		10.88	7.16	0.35	11.35	7.44	0.35
	63 (17.2)	9.85	9.65	1.09		10.61	10.02	1.02		8.58	8.20	0.60		8.98	8.49	0.54		9.20	8.49	0.47		9.81	8.79	0.38	10.41	9.08	0.38
	57 (13.9)	9.79	9.79	1.09		10.43	10.43	1.02		8.47	8.47	0.60		8.98	8.98	0.54		8.98	8.98	0.48		9.48	9.48	0.40	9.96	9.96	0.40
	67 (19.4)	11.85	7.79	1.08		12.79	8.13	1.00		10.33	6.64	0.57		11.10	6.91	0.49		11.10	6.91	0.40		11.86	7.20	0.30	12.62	7.48	0.30
80 (26.7)	72 (22.2)	10.87	9.78	1.09	650	11.51	10.58	1.01	650	9.33	8.66	0.58	650	10.00	8.96	0.52	650	10.67	9.26	0.44	650	11.33	9.56	0.35			
	67 (19.4)	10.56	10.56	1.09		11.24	11.24	1.02		9.12	9.12	0.59		9.67	9.67	0.52		9.67	9.67	0.45		10.20	10.20	0.37	10.72	10.72	0.37
	63 (17.2)	10.54	10.54	1.09		11.22	11.22	1.02		9.11	9.11	0.59		9.65	9.65	0.52		9.65	9.65	0.45		10.18	10.18	0.37	10.69	10.69	0.37
	57 (13.9)	11.91	5.24	1.08		12.82	5.56	1.00		10.38	4.52	0.57		11.19	4.70	0.49		11.19	4.70	0.40		11.92	5.07	0.30	12.67	5.34	0.30
	67 (19.4)	10.68	7.75	1.09		11.52	8.07	1.01		9.32	6.80	0.59		10.00	6.88	0.52		10.00	6.88	0.44		10.88	7.16	0.35	11.35	7.44	0.35

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 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA824A

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,F)002L	1.01	1.06	
FE4ANF002L	1.01	1.06	
CAP**3614AL*	1.01	1.06	58CV(A,X)070-12
CSPH*3612AL*	1.03	1.13	58CV(A,X)070-12
CSPH*4212AL*	1.03	1.13	58CV(A,X)070-12
CAP**3617AL*	1.01	1.06	58CV(A,X)090-16
CNPV*3617AL*	1.01	1.06	58CV(A,X)090-16
CNPV*4217AL*	1.03	1.07	58CV(A,X)090-16
CSPH*3612AL*	1.03	1.13	58CV(A,X)090-16
CSPH*4212AL*	1.03	1.14	58CV(A,X)090-16
CAP**3617AL*	1.00	1.05	59*N*A060V17**14
CNPV*3617AL*	1.00	1.05	59*N*A060V17**14
CNPV*4217AL*	1.02	1.07	59*N*A060V17**14
CSPH*3612AL*	1.02	1.12	59*N*A060V17**14
CSPH*4212AL*	1.03	1.13	59*N*A060V17**14
CAP**3617AL*	1.01	1.06	59*N*A080V17**14
CNPV*3617AL*	1.00	1.05	59*N*A080V17**14
CNPV*4217AL*	1.02	1.07	59*N*A080V17**14
CSPH*3612AL*	1.02	1.12	59*N*A080V17**14
CSPH*4212AL*	1.03	1.13	59*N*A080V17**14
CAP**3621AL*	1.01	1.06	59MN7A060V21**20
CNPV*3621AL*	1.00	1.05	59MN7A060V21**20
CNPV*4221AL*	1.01	1.06	59MN7A060V21**20
CSPH*3612AL*	1.02	1.12	59MN7A060V21**20
CSPH*4212AL*	1.03	1.13	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(B,F)003	0.93	1.06	0.97	1.03		
FV4CNF002L	0.92	1.09	0.98	1.05		
CAP**2414AL*	0.93	1.11	0.98	1.09	58PH*045-08	
CAP**3014AL*	0.95	1.08	0.98	1.09	58PH*045-08	
CAP**3614AL*	0.95	1.08	0.98	1.08	58PH*045-08	
CSPH*2412AL*	0.93	1.11	0.98	1.08	58PH*045-08	
CSPH*3012AL*	0.95	1.08	0.99	1.08	58PH*045-08	
CSPH*3612AL*	0.97	1.10	0.99	1.07	58PH*045-08	
CAP**2414AL*	0.93	1.08	0.96	1.10	59*P2A040E14**10	
CAP**3014AL*	0.94	1.12	0.96	1.09	59*P2A040E14**10	
CAP**3614AL*	0.94	1.12	0.96	1.09	59*P2A040E14**10	
CNPV*3014AL*	0.95	1.13	0.96	1.09	59*P2A040E14**10	
CSPH*2412AL*	0.93	1.11	0.96	1.09	59*P2A040E14**10	
CSPH*3012AL*	0.95	1.13	0.98	1.08	59*P2A040E14**10	
CSPH*3612AL*	0.97	1.10	0.98	1.08	59*P2A040E14**10	
CAP**2417AL*	0.93	1.11	0.96	1.09	59*P2A040E17**12	
CAP**3017AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12	
CAP**3617AL*	0.95	1.13	0.97	1.09	59*P2A040E17**12	
CNPV*3017AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12	
CNPV*3617AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12	
CNPV*4217AL*	0.96	1.09	0.97	1.08	59*P2A040E17**12	
CSPH*2412AL*	0.93	1.11	0.96	1.10	59*P2A040E17**12	
CSPH*3012AL*	0.94	1.12	0.97	1.08	59*P2A040E17**12	
CSPH*3612AL*	0.96	1.09	0.98	1.08	59*P2A040E17**12	
CAP**2414AL*	0.93	1.06	0.98	1.07	59*P2A060E14**12	
CAP**3014AL*	0.96	1.09	0.99	1.07	59*P2A060E14**12	
CAP**3614AL*	0.96	1.09	0.99	1.06	59*P2A060E14**12	
CNPV*3014AL*	0.97	1.15	0.98	1.07	59*P2A060E14**12	
CNPV*2412AL*	0.93	1.06	0.98	1.07	59*P2A060E14**12	
CSPH*3012AL*	0.96	1.09	0.99	1.05	59*P2A060E14**12	
CSPH*3612AL*	0.97	1.10	1.00	1.05	59*P2A060E14**12	
CAP**2414AL*	0.93	1.11	0.96	1.13	59*PSA040E14**10	
CAP**3014AL*	0.94	1.12	0.96	1.12	59*PSA040E14**10	
CAP**3614AL*	0.95	1.13	0.96	1.11	59*PSA040E14**10	
CNPV*3014AL*	0.94	1.12	0.96	1.13	59*PSA040E14**10	
CNPV*2412AL*	0.93	1.11	0.96	1.12	59*PSA040E14**10	
CNPV*3017AL*	0.93	1.11	0.96	1.10	59*PSA040E17**12	
CNPV*3617AL*	0.93	1.11	0.96	1.10	59*PSA040E17**12	
CNPV*4217AL*	0.93	1.11	0.97	1.09	59*PSA040E17**12	
CSPH*2412AL*	0.93	1.10	0.96	1.11	59*PSA040E17**12	
CSPH*3012AL*	0.93	1.11	0.97	1.09	59*PSA040E17**12	
CSPH*3612AL*	0.95	1.08	0.97	1.09	59*PSA040E17**12	

See notes on page 36

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 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**		
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		13.32	3.62	0.42		14.61	4.06	0.40		15.95	4.54	0.36
	67 (19.4)		9.86	7.42	1.02		11.05	8.01	1.00		12.24	5.94	0.43		13.49	6.56	0.42		14.76	7.19	0.38
	63 (17.2)		9.15	9.15	1.02		10.29	9.90	1.00		11.44	6.40	0.43		12.69	7.27	0.42		13.94	8.18	0.39
	57 (13.9)		9.13	9.13	1.02		10.15	10.15	1.00		11.30	6.40	0.43		12.55	7.27	0.42		13.80	8.17	0.39
80 (26.7)	72 (22.2)	650	10.93	7.45	1.02	650	12.27	8.08	1.00	650	13.56	5.99	0.42	650	14.85	6.61	0.40	650	16.14	7.26	0.36
	67 (19.4)		9.88	9.86	1.02		11.12	10.63	1.00		12.41	6.97	0.43		13.70	7.91	0.41		14.99	8.89	0.37
	63 (17.2)		9.86	9.86	1.02		10.95	10.95	1.00		12.20	6.96	0.43		13.49	7.90	0.41		14.78	8.88	0.37
	57 (13.9)		9.85	9.85	1.02		10.94	10.94	1.00		12.19	6.95	0.43		13.48	7.89	0.41		14.77	8.87	0.37
	72 (22.2)		10.98	4.91	1.02		12.29	5.41	1.00		13.32	3.62	0.42		14.61	4.06	0.40		15.95	4.54	0.36

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 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

251VA8245

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 2)				Furnace Model	
				Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.		Power
*FE4ANF002L	1.00	1.00							
FE4AN(B,F)003L	1.01	1.01							
CAP**3614AL*	1.00	1.05	58CV(A,X)070-12	FV4CN(B,F)003L	0.98	0.84	0.97	0.96	
CAP**3617AL*	1.00	1.05	59*N*A080V17**14	FV4CNF002L	0.97	0.84	0.99	0.99	
CAP**3617AL*	1.00	1.05	59*N*A080V17**14	CAP**2414AL*	0.95	0.85	0.97	1.05	59*P2A040E14**10
CAP**3617AL*	1.01	1.01	58CV(A,X)070-12	CAP**2414AL*	0.97	0.83	0.99	1.03	59*P2A060E14**12
CAP**3621AL*	1.00	1.05	59*N*A080V17**14	CAP**2414AL*	0.96	0.91	0.96	1.07	59*P2A040E14**10
CAP**3621AL*	1.00	1.05	59*N*A080V17**14	CAP**2417AL*	0.96	0.82	0.98	1.05	58PH*045-08
CAP**3621AL*	1.00	1.05	59MN7A060V21**20	CAP**2417AL*	0.95	0.85	0.97	1.04	59*P2A040E17**12
CAP**3621AL*	1.01	1.01	59*N*A080V21**20	CAP**3014AL*	0.97	0.87	0.97	1.06	59*P2A040E17**12
CAP**3621AL*	1.01	1.01	59*N*A100V21**22	CAP**3014AL*	0.98	0.84	0.99	1.03	59*P2A040E14**10
CAP**4221AL*	1.01	1.06	59*N*A060V17**14	CAP**3014AL*	0.97	0.92	0.96	1.07	59*P2A060E14**12
CAP**4221AL*	1.01	1.06	59*N*A080V17**14	CAP**3014AL*	0.97	0.84	0.97	1.04	59*P2A040E14**10
CAP**4221AL*	1.01	1.06	59MN7A060V21**20	CAP**3017AL*	0.97	0.83	0.97	1.04	58PH*045-08
CAP**4221AL*	1.02	1.02	58CV(A,X)090-16	CAP**3017AL*	0.96	0.86	0.97	1.06	59*P2A040E17**12
CAP**4224AL*	1.01	1.06	59MN7A060V21**20	CAP**3614AL*	0.97	0.83	0.97	1.04	59*P2A040E17**12
CAP**4817AL*	1.02	1.07	59*N*A060V17**14	CAP**3614AL*	0.98	0.83	0.97	1.04	59*P2A040E14**10
CAP**4817AL*	1.03	1.03	59*N*A080V17**14	CAP**3614AL*	0.97	0.92	0.97	1.07	59*P2A060E14**12
CAP**4817AL*	1.03	1.03	58CV(A,X)070-12	CAP**3614AL*	0.97	0.84	0.98	1.04	58PH*045-08
CAP**4817AL*	1.03	1.03	58CV(A,X)090-16	CAP**3617AL*	0.97	0.84	0.97	1.04	59*P2A040E17**12
CAP**4821AL*	1.02	1.07	59*N*A060V17**14	CAP**3617AL*	0.97	0.83	0.97	1.05	59*P2A040E17**12
CAP**4821AL*	1.02	1.02	59*N*A080V17**14	CNPV*3014AL*	0.97	0.88	0.97	1.04	59*P2A040E14**10
CAP**4821AL*	1.03	1.03	58CV(A,X)090-16	CNPV*3014AL*	0.99	0.89	0.99	1.03	59*P2A060E14**12
CNPV*3617AL*	1.00	1.05	59*N*A060V17**14	CNPV*3014AL*	0.97	0.92	0.96	1.07	59*P2A040E14**10
CNPV*3617AL*	1.00	1.05	59*N*A080V17**14	CNPV*3017AL*	0.97	0.87	0.97	1.05	59*P2A040E17**12
CNPV*3621AL*	1.00	1.05	59*N*A060V17**14	CNPV*3017AL*	0.96	0.86	0.96	1.05	59*P2A040E17**12
CNPV*3621AL*	1.00	1.05	59*N*A080V17**14	CNPV*3617AL*	0.97	0.87	0.97	1.04	59*P2A040E17**12
CNPV*4217AL*	1.01	1.06	59*N*A060V17**14	CNPV*3617AL*	0.96	0.86	0.96	1.05	59*P2A060E14**12
CNPV*4217AL*	1.02	1.07	59*N*A080V17**14	CNPV*4217AL*	0.98	0.84	0.97	1.04	59*P2A040E17**12
CNPV*4217AL*	1.02	1.02	58CV(A,X)070-12	CNPV*4217AL*	0.97	0.83	0.97	1.05	59*P2A040E17**12
CNPV*4217AL*	1.02	1.02	58CV(A,X)090-16	CSPH*2412AL*	0.96	0.86	0.97	1.05	59*P2A040E17**12
CNPV*4221AL*	1.01	1.06	59*N*A060V17**14	CSPH*2412AL*	0.97	0.84	0.99	1.03	59*P2A060E14**12
CNPV*4221AL*	1.01	1.06	59*N*A080V17**14	CSPH*2412AL*	0.97	0.82	0.99	1.07	59*P2A040E14**10
CNPV*4821AL*	1.02	1.07	59*N*A060V17**14	CSPH*2412AL*	0.97	0.92	0.97	1.07	59*P2A060E14**12
CNPV*4821AL*	1.02	1.07	59*N*A080V17**14	CSPH*2412AL*	0.95	0.85	0.97	1.06	59*P2A040E17**12
CNPV*4821AL*	1.03	1.03	58CV(A,X)090-16	CSPH*2412AL*	0.97	0.87	0.98	1.04	58PH*045-08
CSPH*3612AL*	1.02	1.07	59*N*A060V17**14	CSPH*3012AL*	0.97	0.87	0.98	1.04	59*P2A040E14**10
CSPH*3612AL*	1.02	1.07	59*N*A080V17**14	CSPH*3012AL*	0.97	0.87	0.97	1.04	59*P2A040E17**12
CSPH*3612AL*	1.02	1.07	58CV(A,X)070-12	CSPH*3012AL*	0.98	0.84	1.00	1.02	59*P2A060E14**12
CSPH*3612AL*	1.03	1.07	58CV(A,X)090-16	CSPH*3012AL*	0.96	0.86	0.97	1.07	59*P2A040E14**10
CSPH*4212AL*	1.02	1.07	59*N*A060V17**14	CSPH*3012AL*	0.97	0.86	0.97	1.05	59*P2A040E17**12
CSPH*4212AL*	1.03	1.07	59*N*A080V17**14	CSPH*3612AL*	0.99	0.85	0.97	1.03	59*P2A040E14**10
CSPH*4212AL*	1.03	1.07	58CV(A,X)070-12	CSPH*3612AL*	0.98	0.84	0.97	1.03	59*P2A040E17**12
CSPH*4212AL*	1.03	1.03	58CV(A,X)090-16	CSPH*3612AL*	1.00	0.86	0.99	1.01	59*P2A060E14**12
CSPH*4812AL*	1.03	1.07	59*N*A060V17**14	CSPH*3612AL*	0.99	0.94	0.97	1.06	59*P2A040E14**10
CSPH*4812AL*	1.03	1.07	59*N*A080V17**14	CSPH*3612AL*	0.97	0.88	0.97	1.04	59*P2A040E17**12
				CSPH*3612AL*	1.00	0.86	0.99	1.03	58PH*045-08

See notes on page 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAIR AIR	25VNA8257 FEANR005 Efficiency Mode Condenser Entering Air Temperature °F (°C)												85 (29.4)			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 Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	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	31.02	12.64	1.18	32.46	13.16	0.85	33.81	13.72	0.61
	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	26.92	16.05	1.43	28.35	16.69	1.21	29.74	17.24	0.92	31.06	17.82	0.67
	63 (17.2)	19.66	16.76	2.48	21.01	17.35	2.21	22.17	17.92	1.92	23.46	18.51	1.67	24.71	19.11	1.44	26.06	19.72	1.23	27.35	20.29	0.95	29.04	20.87	0.73
	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	24.56	24.56	0.98	25.51	25.51	0.76
	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	32.46	17.17	0.92	33.81	17.72	0.67
80 (26.7)	67 (19.4)	21.28	17.58	2.50	22.75	18.19	2.22	24.00	18.75	1.92	25.40	19.35	1.67	26.74	19.96	1.43	28.35	20.56	1.21	29.74	21.11	0.95	31.06	21.66	0.73
	63 (17.2)	20.03	20.03	2.49	21.17	21.09	2.21	22.29	21.72	1.92	23.54	22.34	1.67	24.78	22.95	1.44	26.06	23.61	1.23	27.35	23.54	0.98	29.04	24.09	0.76
	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	26.03	24.09	0.98	27.06	24.09	0.76
	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	21.72	8.96	0.58	22.77	9.46	0.43
	63 (17.2)	13.88	9.30	1.50	14.90	9.71	1.36	15.70	10.04	1.14	16.69	10.46	0.99	17.67	10.87	0.85	18.63	11.27	0.71	19.61	11.66	0.61	20.56	12.04	0.47
80 (26.7)	63 (17.2)	12.80	11.44	1.50	13.73	11.87	1.37	14.47	12.22	1.14	15.39	12.65	1.00	16.27	13.10	0.87	17.17	13.48	0.73	18.04	13.86	0.61	18.91	14.24	0.47
	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	16.51	15.81	0.61	17.17	15.81	0.47
	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	21.61	11.66	0.61	22.64	12.04	0.47
	63 (17.2)	13.87	12.03	1.50	14.88	12.46	1.36	15.67	12.80	1.14	16.66	13.25	0.99	17.62	13.69	0.85	18.59	14.08	0.71	19.56	14.46	0.61	20.51	14.83	0.47
	57 (13.9)	13.28	13.28	1.50	14.07	14.07	1.37	14.69	14.69	1.14	15.58	15.21	1.00	16.44	15.74	0.87	17.23	16.25	0.73	18.04	16.14	0.61	18.91	16.14	0.47
75 (23.9)	72 (22.2)	11.91	5.24	1.08	12.82	5.56	1.00	13.38	5.82	0.85	14.38	6.14	0.73	15.38	6.42	0.57	16.38	6.70	0.43	17.38	6.96	0.38	18.38	7.22	0.28
	67 (19.4)	10.68	7.75	1.09	11.52	8.07	1.01	12.32	8.33	0.79	13.22	8.60	0.59	14.16	8.86	0.44	15.11	9.11	0.35	16.06	9.36	0.28	17.01	9.61	0.23
	63 (17.2)	9.85	9.65	1.09	10.61	10.02	1.02	11.38	10.33	0.80	12.16	10.59	0.60	12.91	10.84	0.47	13.76	11.09	0.38	14.61	11.34	0.28	15.46	11.59	0.23
	57 (13.9)	9.79	9.79	1.09	10.43	10.43	1.02	11.16	10.43	0.80	11.91	10.43	0.54	12.64	10.43	0.48	13.41	10.43	0.40	14.29	10.43	0.28	15.06	10.43	0.23
	67 (19.4)	11.85	7.79	1.08	12.79	8.13	1.00	13.33	8.44	0.73	14.33	8.70	0.49	15.33	8.96	0.35	16.33	9.22	0.23	17.33	9.48	0.23	18.33	9.72	0.23
80 (26.7)	67 (19.4)	10.87	9.78	1.09	11.51	10.58	1.01	12.22	10.86	0.79	13.01	11.10	0.52	13.86	11.33	0.44	14.71	11.59	0.35	15.56	11.84	0.23	16.41	12.09	0.23
	63 (17.2)	10.56	10.56	1.09	11.24	11.24	1.02	11.91	11.24	0.79	12.64	11.24	0.52	13.38	11.24	0.45	14.13	11.59	0.35	14.88	11.84	0.23	15.63	12.09	0.23
	57 (13.9)	10.54	10.54	1.09	11.22	11.22	1.02	11.85	11.22	0.79	12.56	11.22	0.52	13.31	11.22	0.45	14.06	11.59	0.35	14.81	11.84	0.23	15.56	12.09	0.23
	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	21.72	8.96	0.58	22.77	9.46	0.43
	63 (17.2)	13.88	9.30	1.50	14.90	9.71	1.36	15.70	10.04	1.14	16.69	10.46	0.99	17.67	10.87	0.85	18.63	11.27	0.71	19.61	11.66	0.61	20.56	12.04	0.47

STAGE 5

STAGE 3

STAGE 1 - FEANR005 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 and 115 outdoor.

See additional notes on page 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA825

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4ANI(B)F005L	1.00	1.00	
FE4ANI(B)F003	1.01	1.05	
FE4ANF002L	1.01	1.10	
CAP**3614AL*	1.01	1.05	58CV(A,X)070-12
CSPH*3612AL*	1.03	1.11	58CV(A,X)070-12
CSPH*4212AL*	1.03	1.11	58CV(A,X)070-12
CAP**3617AL*	1.01	1.05	58CV(A,X)090-16
CNPV*3617AL*	1.01	1.05	58CV(A,X)090-16
CNPV*4217AL*	1.03	1.07	58CV(A,X)090-16
CSPH*3612AL*	1.03	1.11	58CV(A,X)090-16
CSPH*4212AL*	1.03	1.12	58CV(A,X)090-16
CAP**3617AL*	1.00	1.09	59*N*A060V17**14
CNPV*3617AL*	1.00	1.09	59*N*A060V17**14
CNPV*4217AL*	1.02	1.11	59*N*A060V17**14
CSPH*4212AL*	1.02	1.16	59*N*A060V17**14
CSPH*3612AL*	1.03	1.11	59*N*A060V17**14
CAP**3617AL*	1.01	1.05	59*N*A080V17**14
CNPV*3617AL*	1.00	1.09	59*N*A080V17**14
CNPV*4217AL*	1.02	1.06	59*N*A080V17**14
CSPH*3612AL*	1.02	1.11	59*N*A080V17**14
CSPH*4212AL*	1.03	1.11	59*N*A080V17**14
CNPV*3621AL*	1.01	1.05	59MN7A060V21**20
CAP**3621AL*	1.01	1.10	59MN7A060V21**20
CNPV*3621AL*	1.00	1.09	59MN7A060V21**20
CNPV*4221AL*	1.01	1.05	59MN7A060V21**20
CSPH*3612AL*	1.02	1.11	59MN7A060V21**20
CSPH*4212AL*	1.03	1.11	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(B)F003	0.94	0.98	0.97	1.00		
FV4CNF002L	0.94	0.98	0.98	1.02		
CAP**2414AL*	0.94	1.03	0.98	1.10	58PH*045-08	
CAP**3014AL*	0.95	0.99	0.98	1.09	58PH*045-08	
CAP**3614AL*	0.96	1.00	0.98	1.09	58PH*045-08	
CSPH*2412AL*	0.95	1.08	0.98	1.10	58PH*045-08	
CSPH*3012AL*	0.96	1.04	0.99	1.08	58PH*045-08	
CSPH*3612AL*	0.98	1.02	0.99	1.08	58PH*045-08	
CAP**2414AL*	0.93	1.02	0.96	1.11	59*P2A040E14**10	
CAP**3014AL*	0.94	1.03	0.96	1.10	59*P2A040E14**10	
CAP**3614AL*	0.95	1.03	0.97	1.10	59*P2A040E14**10	
CNPV*3014AL*	0.96	1.04	0.96	1.10	59*P2A040E14**10	
CNPV*3617AL*	0.94	1.03	0.97	1.11	59*P2A040E14**10	
CSPH*2412AL*	0.95	1.03	0.98	1.09	59*P2A040E14**10	
CSPH*3012AL*	0.97	1.05	0.98	1.08	59*P2A040E14**10	
CSPH*3612AL*	0.97	1.02	0.97	1.11	59*P2A040E14**10	
CAP**2417AL*	0.93	1.07	0.96	1.11	59*P2A040E17**12	
CNPV*3014AL*	0.98	1.06	0.99	1.08	59*P2A040E17**12	
CNPV*3617AL*	0.95	1.03	0.98	1.10	59*P2A040E17**12	
CSPH*3012AL*	0.97	1.05	0.98	1.09	59*P2A040E17**12	
CAP**2414AL*	0.95	0.99	0.99	1.08	59*P2A060E14**12	
CAP**3014AL*	0.96	1.00	0.99	1.08	59*P2A060E14**12	
CAP**3614AL*	0.97	1.01	0.99	1.08	59*P2A060E14**12	
CNPV*3014AL*	0.98	1.06	0.99	1.08	59*P2A060E14**12	
CNPV*3617AL*	0.95	1.03	0.99	1.08	59*P2A060E14**12	
CSPH*2412AL*	0.97	1.05	1.00	1.07	59*P2A060E14**12	
CSPH*3012AL*	0.98	1.02	1.01	1.06	59*P2A060E14**12	
CAP**2414AL*	0.93	1.06	0.96	1.14	59*PSA040E14**10	
CAP**3014AL*	0.95	1.08	0.96	1.13	59*PSA040E14**10	
CAP**3614AL*	0.95	1.08	0.96	1.13	59*PSA040E14**10	
CNPV*3014AL*	0.94	1.07	0.96	1.13	59*PSA040E14**10	
CSPH*2412AL*	0.94	1.12	0.96	1.14	59*PSA040E14**10	
CSPH*3012AL*	0.95	1.08	0.97	1.12	59*PSA040E14**10	
CSPH*3612AL*	0.97	1.10	0.98	1.12	59*PSA040E14**10	
CAP**2417AL*	0.93	1.01	0.96	1.12	59*PSA040E17**12	
CAP**3017AL*	0.94	1.03	0.96	1.11	59*PSA040E17**12	
CAP**3617AL*	0.94	1.03	0.97	1.11	59*PSA040E17**12	
CNPV*3017AL*	0.93	1.02	0.96	1.12	59*PSA040E17**12	
CNPV*3617AL*	0.93	1.02	0.96	1.12	59*PSA040E17**12	
CNPV*4217AL*	0.95	1.03	0.98	1.11	59*PSA040E17**12	
CSPH*2412AL*	0.93	1.06	0.96	1.12	59*PSA040E17**12	
CSPH*3012AL*	0.94	1.03	0.98	1.11	59*PSA040E17**12	
CSPH*3612AL*	0.96	1.04	0.98	1.10	59*PSA040E17**12	

See notes on page 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR AIR	25VNA836 / 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 Svs. KW**	ID SCFM	Capacity MBtuh Total	Total Svs. KW**	ID SCFM	Capacity MBtuh Total	Total Svs. KW**	ID SCFM	Capacity MBtuh Total	Total Svs. KW**	ID SCFM	Capacity MBtuh Total	Total Svs. KW**	ID SCFM	Capacity MBtuh Total	Total Svs. KW**	
STAGE 5																				
75 (23.9)	72 (22.2)	1050	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
	67 (19.4)	1050	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)	1050	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)	1050	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)	1050	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)	1050	30.58	23.31	3.83	32.54	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
	63 (17.2)	1050	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)	1050	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
	STAGE 3																			
	75 (23.9)	72 (22.2)	900	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
67 (19.4)		900	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
63 (17.2)		900	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
57 (13.9)		900	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)		900	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
80 (26.7)	67 (19.4)	900	19.34	16.49	2.49	20.87	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)	900	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
	57 (13.9)	900	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
	STAGE 1																			
	75 (23.9)	72 (22.2)	800	14.47	6.38	1.82	15.58	6.77	1.53	16.69	4.69	0.66	11.51	4.98	0.49	12.34	5.28	0.34	13.17	5.58
67 (19.4)		800	13.00	9.42	1.82	14.02	9.86	1.54	9.54	6.85	0.69	10.28	7.17	0.52	11.02	7.49	0.37	11.76	7.81	0.25
63 (17.2)		800	12.02	11.77	1.82	12.97	12.18	1.55	8.78	8.53	0.70	9.43	8.87	0.54	10.10	9.21	0.39	10.77	9.55	0.27
57 (13.9)		800	11.94	11.94	1.82	12.73	12.73	1.55	8.69	8.69	0.71	9.25	9.25	0.54	9.81	9.81	0.40	10.36	10.36	0.28
72 (22.2)		800	14.41	9.47	1.82	15.54	9.92	1.52	10.64	6.90	0.71	11.46	7.22	0.54	12.29	7.55	0.40	13.12	7.88	0.28
80 (26.7)	67 (19.4)	800	13.03	12.45	1.82	14.03	12.93	1.54	9.56	9.02	0.71	10.28	9.37	0.54	11.01	9.72	0.40	11.75	10.07	0.28
	63 (17.2)	800	12.86	12.86	1.82	13.70	13.70	1.54	9.40	9.40	0.69	9.99	9.99	0.52	10.58	10.58	0.38	11.17	11.17	0.26
	57 (13.9)	800	12.84	12.84	1.82	13.67	13.67	1.54	9.38	9.38	0.69	9.97	9.97	0.52	10.56	10.56	0.38	11.15	11.15	0.26

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 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA836

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005	1.00	1.00	
FE4AN(B,F)003	0.96	1.06	
FE4ANF002	0.95	1.05	
CAP**3614AL*	0.95	1.05	58CV(A,X)070-12
CSPH**3612AL*	0.97	1.07	58CV(A,X)070-12
CSPH**4212AL*	0.98	1.08	58CV(A,X)070-12
CSPH**4812AL*	0.98	1.09	58CV(A,X)090-16
CAP**3617AL*	0.96	1.06	58CV(A,X)090-16
CAP**4817AL*	0.98	1.03	58CV(A,X)090-16
CNPV**3617AL*	0.95	1.05	58CV(A,X)090-16
CNPV**4217AL*	0.97	1.07	58CV(A,X)090-16
CSPH**3612AL*	0.98	1.08	58CV(A,X)090-16
CSPH**4212AL*	0.98	1.09	58CV(A,X)090-16
CSPH**4812AL*	0.98	1.09	58CV(A,X)090-16
CAP**3621AL*	0.96	1.06	58CV(A,X)110-20
CAP**4221AL*	0.96	1.07	58CV(A,X)110-20
CNPV**3621AL*	0.98	1.03	58CV(A,X)110-20
CNPV**4221AL*	0.98	1.03	58CV(A,X)110-20
CSPH**3612AL*	0.98	1.03	58CV(A,X)110-20
CSPH**4212AL*	0.95	1.05	58CV(A,X)110-20
CNPV**4212AL*	0.96	1.07	58CV(A,X)110-20
CNPV**4812AL*	0.98	1.03	58CV(A,X)110-20
CSPH**3612AL*	0.98	1.08	58CV(A,X)110-20
CSPH**4212AL*	0.98	1.09	58CV(A,X)135-22
CAP**4824AL*	0.98	1.03	58CV(A,X)135-22
CNPV**4824AL*	0.98	1.03	58CV(A,X)135-22
CSPH**4824AL*	0.98	1.03	58CV(A,X)135-22
CAP**3612AL*	0.98	1.08	58CV(A,X)135-22
CAP**4212AL*	0.98	1.09	58CV(A,X)135-22
CNPV**4212AL*	0.98	1.08	58CV(A,X)135-22
CSPH**4812AL*	0.99	1.09	58CV(A,X)135-22
CAP**4224AL*	0.96	1.01	58CV(A,X)155-22
CNPV**4224AL*	0.98	1.03	58CV(A,X)155-22
CSPH**4824AL*	0.98	1.03	58CV(A,X)155-22
CSPH**3612AL*	0.98	1.09	58CV(A,X)155-22
CSPH**4212AL*	0.98	1.09	58CV(A,X)155-22
CAP**3617AL*	0.95	1.11	59*N*A060V17**14
CAP**4817AL*	0.97	1.07	59*N*A060V17**14
CNPV**4217AL*	0.96	1.11	59*N*A060V17**14
CSPH**3612AL*	0.96	1.13	59*N*A060V17**14
CSPH**4212AL*	0.98	1.14	59*N*A060V17**14
CAP**3617AL*	0.95	1.05	59*N*A060V17**14
CAP**4817AL*	0.98	1.08	59*N*A060V17**14
CNPV**3617AL*	0.95	1.11	59*N*A060V17**14
CNPV**4217AL*	0.96	1.11	59*N*A060V17**14
CSPH**3612AL*	0.97	1.13	59*N*A060V17**14
CSPH**4212AL*	0.98	1.13	59*N*A060V17**14
CAP**3621AL*	0.96	1.06	59*N*A080V21**20
CAP**4221AL*	0.96	1.07	59*N*A080V21**20
CNPV**3621AL*	0.98	1.08	59*N*A080V21**20
CNPV**4221AL*	0.98	1.08	59*N*A080V21**20
CSPH**3612AL*	0.98	1.08	59*N*A080V21**20
CSPH**4212AL*	0.98	1.08	59*N*A080V21**20
CSPH**4812AL*	0.98	1.08	59*N*A080V21**20
CAP**4221AL*	0.96	1.07	59*N*A080V21**20
CNPV**4221AL*	0.98	1.07	59*N*A080V21**20
CSPH**4212AL*	0.98	1.07	59*N*A080V21**20
CSPH**4812AL*	0.98	1.07	59*N*A080V21**20

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
CNPV**4821AL*	0.98	1.08	59*N*A080V21**20
CSPH**3612AL*	0.98	1.08	59*N*A080V21**20
CSPH**4212AL*	0.98	1.09	59*N*A080V21**20
CSPH**4812AL*	0.98	1.09	59*N*A080V21**20
CAP**3621AL*	0.96	1.06	59*N*A100V21**22
CAP**4221AL*	0.96	1.07	59*N*A100V21**22
CNPV**4221AL*	0.98	1.03	59*N*A100V21**22
CNPV**4812AL*	0.98	1.03	59*N*A100V21**22
CSPH**4212AL*	0.98	1.09	59*N*A100V21**22
CSPH**4812AL*	0.98	1.09	59*N*A100V21**22
CAP**4224AL*	0.96	1.07	59*N*A120V24**22
CAP**4824AL*	0.98	1.03	59*N*A120V24**22
CNPV**4824AL*	0.98	1.08	59*N*A120V24**22
CSPH**3612AL*	0.98	1.14	59*N*A120V24**22
CSPH**4212AL*	0.98	1.09	59*N*A120V24**22
CSPH**4812AL*	0.98	1.09	59*N*A120V24**22
CAP**3621AL*	0.95	1.05	59MN7A060V21**20
CAP**4221AL*	0.96	1.06	59MN7A060V21**20
CNPV**4221AL*	0.96	1.07	59MN7A060V21**20
CNPV**4821AL*	0.95	1.11	59MN7A060V21**20
CNPV**4221AL*	0.96	1.06	59MN7A060V21**20
CNPV**4821AL*	0.95	1.06	59MN7A060V21**20
CNPV**4212AL*	0.98	1.08	59MN7A060V21**20
CNPV**4812AL*	0.97	1.13	59MN7A060V21**20
CSPH**4212AL*	0.98	1.08	59MN7A060V21**20
CSPH**4812AL*	0.98	1.08	59MN7A060V21**20

Cooling Indoor Model	2-STAGE (Hi-Stage 5, Lo-Stage 2)			Furnace Model
	High Speed Cap.	Power	Low Speed Cap.	
FV4CN(B,F)003	1.00	1.00	1.00	
FV4CN(B,F)003	0.97	0.97	1.09	
FV4CNF002L	0.95	1.00	1.08	
CAP**3614AL*	0.94	1.05	1.19	56PH*045-08
CSPH**3612AL*	0.97	1.08	1.18	56PH*045-08
CSPH**4212AL*	0.98	1.09	1.17	56PH*045-08
CSPH**4812AL*	0.98	1.09	1.17	56PH*045-08
CNPV**4217AL*	0.97	1.02	1.08	58CTW070-16
CNPV**4817AL*	0.94	1.05	1.07	58CTW070-16
CAP**3617AL*	0.94	1.05	1.17	59*P2A040E17**12
CAP**4817AL*	0.98	1.09	1.19	59*P2A040E17**12
CNPV**3617AL*	0.94	1.04	1.22	59*P2A040E17**12
CNPV**4217AL*	0.96	1.07	1.21	59*P2A040E17**12
CSPH**3612AL*	0.97	1.07	1.21	59*P2A040E17**12
CSPH**4212AL*	0.97	1.08	1.20	59*P2A040E17**12
CSPH**4812AL*	0.98	1.09	1.07	59*P2A040E17**12
CAP**3614AL*	0.95	1.00	1.07	59*P2A060E14**12
CSPH**3612AL*	0.98	1.03	1.09	59*P2A060E14**12
CSPH**4212AL*	0.98	1.03	1.09	59*P2A060E14**12
CSPH**4812AL*	0.98	1.04	1.09	59*P2A060E14**12
CAP**4817AL*	0.99	1.04	1.11	59*P2A060E17**14
CAP**3617AL*	0.99	1.03	1.14	59*P2A060E17**14
CNPV**3617AL*	0.95	1.00	1.06	59*P2A060E17**14
CNPV**4217AL*	0.97	1.02	1.08	59*P2A060E17**14
CNPV**4817AL*	0.98	1.03	1.13	59*P2A060E17**14
CSPH**3612AL*	0.98	1.03	1.13	59*P2A060E17**14
CSPH**4212AL*	0.98	1.03	1.13	59*P2A060E17**14
CSPH**4812AL*	0.99	1.04	1.09	59*P2A060E17**14
CAP**3617AL*	0.95	1.00	1.07	59*P2A080E17**16
CAP**4817AL*	0.99	1.09	1.12	59*P2A080E17**16
CNPV**4217AL*	0.95	1.00	1.06	59*P2A080E17**16
CNPV**4817AL*	0.97	1.03	1.13	59*P2A080E17**16
CSPH**4212AL*	0.98	1.03	1.13	59*P2A080E17**16
CSPH**4812AL*	0.98	1.03	1.13	59*P2A080E17**16
CSPH**4212AL*	0.97	1.14	1.07	59*P5A080E14**12
CSPH**4812AL*	0.97	1.14	1.07	59*P5A080E14**12
CAP**3617AL*	0.95	1.00	1.06	59*P5A080E17**14
CAP**4817AL*	0.98	1.03	1.06	59*P5A080E17**14
CNPV**3617AL*	0.95	1.00	1.06	59*P5A080E17**14
CNPV**4217AL*	0.97	1.02	1.07	59*P5A080E17**14
CSPH**3612AL*	0.97	1.02	1.15	59*P5A080E17**14
CSPH**4212AL*	0.97	1.02	1.15	59*P5A080E17**14
CSPH**4812AL*	0.98	1.03	1.08	59*P5A080E17**14
CSPH**4212AL*	0.98	1.03	1.08	59*P5A080E17**14

See notes on page 36

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	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)	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	1400	59.36	23.64	2.90	1400	54.03	30.47	2.88
	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	1400	50.09	35.81	2.86	1400	50.09	35.81	2.86
	63 (17.2)	1400	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	1400	44.94	43.50	2.83	1400	44.94	43.50	2.83
	57 (13.9)	1400	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	1400	59.24	30.40	2.90	1400	59.24	30.40	2.90
	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	1400	53.94	37.15	2.88	1400	53.94	37.15	2.88
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	1400	50.04	42.41	2.86	1400	50.04	42.41	2.86
	63 (17.2)	1400	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	1400	46.95	46.95	2.84	1400	46.95	46.95	2.84
	57 (13.9)	1400	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	1400	39.94	16.25	1.53	1400	39.94	16.25	1.53
	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	1200	36.25	21.92	1.56	1200	36.25	21.92	1.56
	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	1200	33.46	26.36	1.58	1200	33.46	26.36	1.58
80 (26.7)	63 (17.2)	1200	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	1200	30.92	30.92	1.60	1200	30.92	30.92	1.60
	57 (13.9)	1200	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	1200	39.84	21.91	1.53	1200	39.84	21.91	1.53
	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	1200	36.15	27.54	1.56	1200	36.15	27.54	1.56
	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	1200	33.56	31.83	1.58	1200	33.56	31.83	1.58
	63 (17.2)	1200	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	1200	32.90	32.90	1.58	1200	32.90	32.90	1.58
75 (23.9)	57 (13.9)	1100	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	875	23.78	10.00	0.56	875	23.78	10.00	0.56
	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	875	21.49	14.00	0.61	875	21.49	14.00	0.61
	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	875	19.87	17.13	0.65	875	19.87	17.13	0.65
	63 (17.2)	1100	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	875	19.01	19.01	0.67	875	19.01	19.01	0.67
	57 (13.9)	1100	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	875	23.69	14.03	0.56	875	23.69	14.03	0.56
80 (26.7)	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	875	21.46	17.97	0.61	875	21.46	17.97	0.61
	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	875	20.33	20.33	0.64	875	20.33	20.33	0.64
	63 (17.2)	1100	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	875	20.29	20.29	0.64	875	20.29	20.29	0.64
	57 (13.9)	1100	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	875	20.29	20.29	0.64	875	20.29	20.29	0.64
	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	875	23.78	10.00	0.56	875	23.78	10.00	0.56

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 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA848

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B)F005L	1.00	1.00	
FE4ANR006	1.01	1.01	
CAP**4817AL*	0.98	1.08	56CV(A.X)090-16
CSPH*4812AL*	0.99	1.15	58CV(A.X)090-16
CSPH*6012AL*	1.00	1.10	58CV(A.X)090-16
CAP**4821AL*	0.98	1.02	56CV(A.X)110-20
CAP**6021AL*	1.00	1.05	56CV(A.X)110-20
CNPV*4821AL*	0.98	1.02	56CV(A.X)110-20
CSPH*4812AL*	0.99	1.09	58CV(A.X)110-20
CSPH*6012AL*	1.00	1.10	58CV(A.X)110-20
CAP**4824AL*	0.98	1.02	58CV(A.X)135-22
CAP**6024AL*	1.00	1.05	58CV(A.X)135-22
CNPV*4824AL*	0.98	1.02	58CV(A.X)135-22
CNPV*6024AL*	1.00	1.00	58CV(A.X)135-22
CSPH*4812AL*	0.99	1.09	58CV(A.X)135-22
CSPH*6012AL*	1.01	1.11	58CV(A.X)135-22
CAP**4824AL*	0.98	1.02	58CV(A.X)155-22
CAP**6024AL*	1.00	1.00	58CV(A.X)155-22
CNPV*4824AL*	0.99	1.04	58CV(A.X)155-22
CNPV*6024AL*	0.99	0.99	58CV(A.X)155-22
CSPH*4812AL*	0.99	1.09	58CV(A.X)155-22
CSPH*6012AL*	1.01	1.06	58CV(A.X)155-22
CAP**4821AL*	0.98	1.08	59*N*A080V21**20
CAP**6021AL*	1.00	1.05	59*N*A080V21**20
CNPV*4821AL*	0.98	1.02	59*N*A080V21**20
CNPV*6021AL*	0.99	1.15	59*N*A080V21**20
CSPH*4812AL*	1.00	1.16	59*N*A080V21**20
CAP**4821AL*	0.98	1.02	59*N*A100V21**22
CAP**6021AL*	1.00	1.05	59*N*A100V21**22
CNPV*4821AL*	0.98	1.02	59*N*A100V21**22
CNPV*6021AL*	0.99	1.09	59*N*A100V21**22
CSPH*4812AL*	1.00	1.10	59*N*A100V21**22
CAP**4824AL*	0.98	1.02	59*N*A120V24**22
CAP**6024AL*	1.00	1.05	59*N*A120V24**22
CNPV*4824AL*	0.98	1.02	59*N*A120V24**22
CNPV*6024AL*	1.00	1.05	59*N*A120V24**22
CSPH*4812AL*	1.00	1.10	59*N*A120V24**22
CAP**4821AL*	0.97	1.06	59MN7A060V21**20
CAP**6021AL*	0.99	1.09	59MN7A060V21**20
CNPV*4821AL*	0.97	1.06	59MN7A060V21**20
CNPV*6021AL*	0.99	1.15	59MN7A060V21**20
CSPH*4812AL*	0.99	1.15	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(B)F005L	1.00	1.00	1.00	1.00		
FV4CNB006	1.02	1.02	1.01	0.97		
CAP**4817AL*	0.97	1.12	0.98	1.10	58PH*070-16	
CSPH*4812AL*	0.97	1.12	0.98	1.09	58PH*070-16	
CSPH*6012AL*	0.99	1.15	0.99	1.09	58PH*070-16	
CAP**4821AL*	0.97	1.01	0.98	1.03	58PH*090-16	
CAP**6021AL*	0.99	1.04	0.99	1.02	58PH*090-16	
CNPV*4821AL*	0.97	1.01	0.99	1.02	58PH*090-16	
CSPH*4812AL*	0.98	1.08	0.99	1.03	58PH*090-16	
CSPH*6012AL*	1.00	1.05	1.01	1.02	58PH*090-16	
CAP**4821AL*	0.97	1.01	0.99	1.03	58PH*110-20	
CAP**6021AL*	1.00	1.00	1.00	1.02	58PH*110-20	
CNPV*4821AL*	0.98	1.02	0.99	1.03	58PH*110-20	
CSPH*4812AL*	0.98	1.08	1.00	1.03	58PH*110-20	
CSPH*6012AL*	1.00	1.05	1.01	1.02	58PH*110-20	
CAP**4817AL*	0.97	1.06	0.98	1.06	58CTW070-16	
CSPH*4812AL*	0.98	1.08	0.99	1.07	58CTW070-16	
CSPH*6012AL*	0.99	1.09	1.00	1.06	58CTW070-16	
CAP**4821AL*	0.97	1.01	0.98	1.02	58CTW090-16	
CAP**6021AL*	0.99	1.04	0.99	1.01	58CTW090-16	
CNPV*4821AL*	0.98	1.02	0.99	1.02	58CTW090-16	
CSPH*4812AL*	0.98	1.08	0.99	1.02	58CTW090-16	
CSPH*6012AL*	1.00	1.05	1.00	1.01	58CTW090-16	
CAP**4821AL*	0.97	1.01	0.98	1.00	58CTW10-22	
CAP**6021AL*	1.00	1.00	0.99	1.00	58CTW10-22	
CNPV*4821AL*	0.98	1.02	0.99	1.00	58CTW10-22	
CSPH*4812AL*	0.98	1.02	0.99	1.01	58CTW10-22	
CSPH*6012AL*	1.00	1.05	1.01	1.00	58CTW10-22	
CAP**4824AL*	0.97	1.01	0.98	1.00	58CTW10-22	
CAP**6024AL*	1.00	1.00	0.99	1.00	58CTW135-22	
CNPV*4824AL*	0.98	1.02	0.99	1.00	58CTW135-22	
CNPV*6024AL*	1.00	1.00	1.00	1.00	58CTW135-22	
CSPH*4812AL*	0.98	1.02	0.99	1.00	58CTW135-22	
CSPH*6012AL*	1.00	1.05	1.00	0.99	58CTW135-22	
CAP**4817AL*	0.97	1.06	0.99	1.04	59*P2A080E17**16	
CSPH*4812AL*	0.98	1.08	0.99	1.04	59*P2A080E17**16	
CSPH*6012AL*	1.00	1.10	1.00	1.03	59*P2A080E17**16	
CAP**4821AL*	0.98	1.02	0.98	1.01	59*P2A080E21**20	
CAP**6021AL*	1.00	1.05	0.99	1.01	59*P2A080E21**20	
CNPV*4821AL*	0.98	1.02	0.99	1.01	59*P2A080E21**20	
CSPH*4812AL*	0.99	1.09	0.99	1.01	59*P2A080E21**20	
CSPH*6012AL*	1.01	1.06	1.01	1.00	59*P2A080E21**20	
CAP**4824AL*	0.98	1.02	0.98	1.01	59*P2A120E24**20	
CAP**6024AL*	1.00	1.05	0.99	1.01	59*P2A120E24**20	
CNPV*4824AL*	0.98	1.02	0.99	1.01	59*P2A120E24**20	
CNPV*6024AL*	1.00	1.05	1.00	1.01	59*P2A120E24**20	
CSPH*4812AL*	0.98	1.08	0.99	1.02	59*P2A120E24**20	

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
CSPH*6012AL*	1.01	1.06	1.01	1.01	59*P2A120E24**20	
CAP**4817AL*	0.97	1.06	0.98	1.06	59*P5A090E17**16	
CSPH*4812AL*	0.97	1.12	0.98	1.06	59*P5A090E17**16	
CSPH*6012AL*	0.99	1.09	0.99	1.05	59*P5A090E17**16	
CAP**4821AL*	0.97	1.01	0.99	1.01	59*P5A100E21**20	
CAP**6021AL*	0.99	1.04	1.00	1.07	59*P5A100E21**20	
CNPV*4821AL*	0.97	1.01	0.99	1.01	59*P5A100E21**20	
CSPH*4812AL*	0.98	1.08	1.00	1.08	59*P5A100E21**20	

See notes on page 36

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	29.82	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	12.44	1.81		33.26	13.13	1.64		35.31	13.87	1.47		37.36	14.61	1.30						
	67 (19.4)		23.82	15.66	2.25		25.70	16.41	2.04		28.14	17.16	1.81		30.18	17.91	1.64		32.23	18.66	1.47		34.28	19.41	1.30						
	63 (17.2)	1200	21.78	19.18	2.24		23.51	19.96	2.03		25.70	20.74	1.81	1200	27.94	21.49	1.64		29.89	22.99	1.47	1200	31.94	24.44	1.30						
	57 (13.9)		20.87	20.87	2.23		22.22	22.22	2.03		23.67	23.67	1.81		25.12	25.12	1.64		26.57	26.57	1.47		28.02	28.02	1.30						
	72 (22.2)		26.55	15.78	2.26		28.63	16.54	2.04		31.10	17.29	1.81		33.14	18.03	1.64		35.19	18.77	1.47		37.24	19.51	1.30						
80 (26.7)	67 (19.4)		23.75	20.23	2.25		25.64	21.01	2.04		27.53	21.79	1.81		29.42	22.54	1.64		31.31	23.29	1.47		33.20	24.03	1.30						
	63 (17.2)	1200	22.48	22.48	2.24		23.92	23.92	2.03		25.36	24.35	1.81	1200	27.80	24.79	1.64		29.69	25.68	1.47	1200	33.58	28.57	1.30						
	57 (13.9)		22.45	22.45	2.24		23.87	23.87	2.03		25.31	25.31	1.81		26.76	26.76	1.64		28.20	28.20	1.47		29.64	29.64	1.30						
	72 (22.2)		26.64	11.15	2.26		28.72	11.89	2.04		31.20	12.44	1.81		33.26	13.13	1.64		35.31	13.87	1.47		37.36	14.61	1.30						
	67 (19.4)	975	23.82	15.66	2.25		25.70	16.41	2.04		28.14	17.16	1.81	975	30.18	17.91	1.64		32.23	18.66	1.47	975	34.28	19.41	1.30						

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 36

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA860

Cooling Indoor Model	2-STAGE (Hi-Stage 5, Lo-Stage 2)				Furnace Model
	High Speed Cap.	Power	Low Speed Cap.	Power	
*FV4CNB006L	1.00	1.00	1.00	1.00	
CAP**6021AL*	1.00	1.11	0.99	1.06	59*P2A080E21**20
CAP**6021AL*	1.00	1.11	0.99	1.06	59*P2A100E21**20
CAP**6021AL*	1.01	1.12	0.99	1.05	58PH*110-20
CAP**6021AL*	1.01	1.12	0.99	1.05	58CTW110-22
CAP**6024AL*	1.00	1.11	0.99	1.06	59*P2A120E24**20
CAP**6024AL*	1.01	1.12	0.99	1.05	58CTW135-22
CNPV*6024AL*	1.00	1.11	0.99	1.06	59*P2A120E24**20
CNPV*6024AL*	1.00	1.11	0.99	1.04	58PH*135-20
CNPV*6024AL*	1.01	1.12	0.99	1.05	58CTW135-22
CNPV*6024AL*	1.00	1.11	1.00	1.09	OVLAAB060154
CSPH*6012AL*	1.01	1.12	1.00	1.06	58PH*110-20
CSPH*6012AL*	1.01	1.12	1.00	1.05	58PH*135-20
CSPH*6012AL*	1.01	1.12	1.00	1.05	58CTW110-22
CSPH*6012AL*	1.01	1.12	1.00	1.05	58CTW135-22

See notes on page 36

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4ANB006L	1.00	1.00	
CAP**6021AL*	0.97	1.02	58CV(A,X)110-20
CAP**6024AL*	0.97	1.02	58CV(A,X)110-20
CNPV*6024AL*	0.97	0.97	58CV(A,X)110-20
CSPH*6012AL*	0.98	1.03	58CV(A,X)135-22
CAP**6024AL*	0.97	0.97	58CV(A,X)135-22
CNPV*6024AL*	0.97	0.97	58CV(A,X)135-22
CSPH*6012AL*	0.98	1.03	58CV(A,X)155-22
CAP**6024AL*	0.98	0.98	58CV(A,X)155-22
CNPV*6024AL*	0.98	0.98	58CV(A,X)155-22
CSPH*6012AL*	0.98	1.03	58CV(A,X)155-22
CAP**6021AL*	0.97	1.02	59*N*A080V21**20
CAP**6024AL*	0.97	1.02	59*N*A080V21**20
CNPV*6024AL*	0.97	1.02	59*N*A080V21**20
CSPH*6012AL*	0.97	1.02	59*N*A080V21**20
CAP**6021AL*	0.97	1.02	59*N*A100V21**22
CAP**6024AL*	0.97	1.02	59*N*A100V21**22
CNPV*6024AL*	0.97	1.02	59*N*A100V21**22
CSPH*6012AL*	0.98	1.03	59*N*A120V24**22
CAP**6024AL*	0.97	1.02	59*N*A120V24**22
CNPV*6024AL*	0.97	1.02	59*N*A120V24**22
CSPH*6012AL*	0.96	1.07	59MN7A080V21**20
CAP**6021AL*	0.96	1.07	59MN7A080V21**20
CNPV*6024AL*	0.96	1.07	59MN7A080V21**20
CSPH*6012AL*	0.96	1.07	59MN7A080V21**20

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

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	Sensit		
75 (23.9)	72 (22.2)	608	24.05	9.74	2.72	608	25.31	10.23	2.15	634	26.93	10.87	1.69	663	28.53	11.51	1.30	708	30.24	12.20	0.96				
	67 (19.4)		21.69	12.60	2.71		22.84	13.11	2.15		24.30	13.88	1.70		25.76	14.68	1.31		27.35	15.63	0.98				
	63 (17.2)		19.98	14.84	2.69		21.05	15.36	2.14		22.40	16.25	1.70		23.76	17.17	1.32		25.20	18.29	0.99				
	57 (13.9)		17.96	17.96	2.67		18.83	18.68	2.12		20.01	19.72	1.70		21.32	20.70	1.33		22.50	22.16	1.01				
	72 (22.2)		23.98	12.65	2.72		25.25	13.15	2.15		26.85	13.94	1.69		28.46	14.73	1.30		30.15	15.64	0.96				
80 (26.7)	67 (19.4)	608	21.63	15.47	2.71	608	22.79	15.99	2.15	634	24.25	16.90	1.70	663	25.71	17.85	1.31	708	27.28	19.03	0.98				
	63 (17.2)		19.98	17.70	2.69		21.04	18.23	2.14		22.39	19.25	1.70		23.75	20.31	1.32		25.21	21.65	0.99				
	57 (13.9)		19.08	19.08	2.68		19.91	19.91	2.13		21.11	21.11	1.70		22.34	22.34	1.32		23.76	23.76	1.00				
	72 (22.2)		15.55	6.31	1.56		437	16.33	6.61		1.21	437	17.39		7.04	0.98	475		18.54	7.49	0.78	510	19.78	8.00	0.60
	67 (19.4)		13.99	8.14	1.57			14.70	8.46		1.22		15.68		8.96	1.00			16.71	9.53	0.80		17.84	10.19	0.63
63 (17.2)	12.85	9.59	1.57	13.92	9.91	1.22		14.42	10.48	1.01	15.37		11.12	0.82	16.42	11.92		0.65							
57 (13.9)	11.51	11.51	1.57	12.02	12.02	1.22		12.80	12.70	1.02	13.64		13.47	0.84	14.57	14.45		0.68							
72 (22.2)	15.51	8.19	1.56	437	16.26	8.49		1.21	437	17.34	9.02		0.98	475	18.49	9.57		0.78	510	19.72	10.27		0.60		
67 (19.4)	13.96	10.01	1.57		14.86	10.33	1.22	15.64		10.92	1.00	16.67	11.56		0.80	17.81	12.41	0.63							
63 (17.2)	12.84	11.44	1.57		13.51	11.79	1.22	14.41		12.41	1.01	15.36	13.18		0.82	16.40	14.13	0.65							
57 (13.9)	12.26	12.26	1.57		12.79	12.79	1.22	13.57		13.57	1.02	14.43	14.43		0.83	15.44	15.44	0.66							
72 (22.2)	11.60	4.69	1.00		342	8.92	3.59	0.58		250	9.47	3.82	0.52		250	10.00	4.04	0.45		250	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	6.36		6.09	0.62	6.74	6.31		0.58	7.10	6.52	0.54		7.47	6.73	0.48							
72 (22.2)	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	0.56	7.27	7.27		0.53	7.56	7.56	0.48							
72 (22.2)	11.60	4.69	1.00		342	8.64	3.49	0.58		222	9.30	3.76	0.52		222	9.74	3.95	0.45		245	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							
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	342		8.62	4.29	0.58	222		9.28	4.61	0.52	222		9.72	4.78	0.45	245		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							
63 (17.2)	9.50	8.34	1.01		7.03	5.61	0.60	7.57		6.01	0.56	7.92	6.14		0.51	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	7.07	6.98		0.53	7.49	7.49	0.48							

STAGE 1 - FEARN005 ONLY

STAGE 1 - ALL OTHER INDOOR COMBINATIONS

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 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA824A

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,F)003L	1.01	1.06	
FE4ANF002L	1.01	1.06	
CAP**3614AL*	1.01	1.06	58CV(A,X)070-12
CSPH*3612AL*	1.03	1.13	58CV(A,X)070-12
CSPH*4212AL*	1.03	1.13	58CV(A,X)070-12
CAP**3617AL*	1.01	1.06	58CV(A,X)090-16
CNPV*3617AL*	1.01	1.06	58CV(A,X)090-16
CNPV*4217AL*	1.03	1.07	58CV(A,X)090-16
CSPH*3612AL*	1.03	1.13	58CV(A,X)090-16
CSPH*4212AL*	1.03	1.14	58CV(A,X)090-16
CAP**3617AL*	1.00	1.05	59*N*A060V17**14
CNPV*3617AL*	1.00	1.05	59*N*A060V17**14
CNPV*4217AL*	1.02	1.07	59*N*A060V17**14
CSPH*3612AL*	1.02	1.12	59*N*A060V17**14
CSPH*4212AL*	1.03	1.13	59*N*A060V17**14
CAP**3617AL*	1.01	1.06	59*N*A080V17**14
CNPV*3617AL*	1.00	1.05	59*N*A080V17**14
CNPV*4217AL*	1.02	1.07	59*N*A080V17**14
CSPH*3612AL*	1.02	1.12	59*N*A080V17**14
CSPH*4212AL*	1.03	1.13	59*N*A080V17**20
CAP**3621AL*	1.01	1.06	59MN7A060V21**20
CNPV*3621AL*	1.00	1.05	59MN7A060V21**20
CNPV*4221AL*	1.01	1.06	59MN7A060V21**20
CSPH*3612AL*	1.02	1.12	59MN7A060V21**20
CSPH*4212AL*	1.03	1.13	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)		2-STAGE (Hi-Stage 5, Lo-Stage 2)		2-STAGE (Hi-Stage 5, Lo-Stage 2)		2-STAGE (Hi-Stage 5, Lo-Stage 2)	
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	High Speed Cap.	Power
FV4CN(B,F)003	0.93	1.06	0.97	1.03			
FV4CNF002L	0.92	1.09	0.98	1.05			
CAP**2414AL*	0.93	1.11	0.98	1.09	58PH*045-08		
CAP**3014AL*	0.95	1.08	0.98	1.09	58PH*045-08		
CAP**3614AL*	0.95	1.08	0.98	1.08	58PH*045-08		
CSPH*2412AL*	0.93	1.11	0.98	1.08	58PH*045-08		
CSPH*3012AL*	0.95	1.08	0.99	1.08	58PH*045-08		
CAP**2414AL*	0.93	1.10	0.99	1.07	58PH*045-08		
CAP**3014AL*	0.94	1.12	0.96	1.10	59*P2A040E14**10		
CAP**3614AL*	0.94	1.12	0.96	1.09	59*P2A040E14**10		
CNPV*3014AL*	0.95	1.13	0.96	1.09	59*P2A040E14**10		
CSPH*2412AL*	0.93	1.11	0.96	1.09	59*P2A040E14**10		
CSPH*3012AL*	0.95	1.13	0.98	1.08	59*P2A040E14**10		
CSPH*3612AL*	0.97	1.10	0.98	1.08	59*P2A040E14**10		
CAP**2417AL*	0.93	1.11	0.96	1.09	59*P2A040E17**12		
CAP**3017AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12		
CAP**3617AL*	0.95	1.13	0.97	1.09	59*P2A040E17**12		
CNPV*3017AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12		
CNPV*3617AL*	0.94	1.12	0.96	1.09	59*P2A040E17**12		
CNPV*4217AL*	0.96	1.09	0.97	1.08	59*P2A040E17**12		
CSPH*2412AL*	0.93	1.11	0.96	1.10	59*P2A040E17**12		
CSPH*3012AL*	0.94	1.12	0.97	1.08	59*P2A040E17**12		
CSPH*3612AL*	0.96	1.09	0.98	1.08	59*P2A040E17**12		
CAP**2414AL*	0.93	1.06	0.98	1.07	59*P2A060E14**12		
CAP**3014AL*	0.96	1.09	0.99	1.07	59*P2A060E14**12		
CAP**3614AL*	0.96	1.09	0.99	1.06	59*P2A060E14**12		
CNPV*3014AL*	0.97	1.15	0.98	1.07	59*P2A060E14**12		
CSPH*2412AL*	0.93	1.06	0.98	1.07	59*P2A060E14**12		
CSPH*3012AL*	0.96	1.09	0.99	1.05	59*P2A060E14**12		
CSPH*3612AL*	0.97	1.10	1.00	1.05	59*P2A060E14**12		
CAP**2414AL*	0.93	1.11	0.96	1.13	59*PSA040E14**10		
CAP**3014AL*	0.94	1.12	0.96	1.12	59*PSA040E14**10		
CAP**3614AL*	0.95	1.13	0.96	1.11	59*PSA040E14**10		
CNPV*3014AL*	0.94	1.12	0.96	1.13	59*PSA040E14**10		
CNPV*2412AL*	0.93	1.11	0.96	1.12	59*PSA040E14**10		
CSPH*3012AL*	0.95	1.13	0.97	1.11	59*PSA040E14**10		
CSPH*3612AL*	0.96	1.14	0.97	1.10	59*PSA040E14**10		
CAP**2417AL*	0.93	1.10	0.96	1.11	59*PSA040E17**12		
CAP**3017AL*	0.93	1.11	0.96	1.10	59*PSA040E17**12		
CAP**3617AL*	0.94	1.12	0.96	1.09	59*PSA040E17**12		
CNPV*3017AL*	0.93	1.11	0.96	1.10	59*PSA040E17**12		
CNPV*3617AL*	0.93	1.11	0.97	1.09	59*PSA040E17**12		
CNPV*4217AL*	0.93	1.10	0.96	1.11	59*PSA040E17**12		
CSPH*2412AL*	0.93	1.11	0.97	1.09	59*PSA040E17**12		
CSPH*3012AL*	0.93	1.11	0.97	1.09	59*PSA040E17**12		
CSPH*3612AL*	0.95	1.08	0.97	1.09	59*PSA040E17**12		

See notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA824B / FEANF002L Comfort + Dehumidify Mode
Condenser Entering Air Temperature F (°C)

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 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA8245

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 2)						
				Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
*FE4ANF002L	1.00	1.00								
FE4AN(B,F)003L	1.01	1.01								
CAP**3614AL*	1.00	1.05	58CV(A,X)070-12	FV4CN(B,F)003L	0.98	0.84	0.97	0.96		
CAP**3617AL*	1.00	1.05	59*N*A080V17**14	FV4CNF002L	0.97	0.84	0.99	0.99		
CAP**3617AL*	1.00	1.05	59*N*A080V17**14	CAP**2414AL*	0.95	0.85	0.97	1.05	59*P2A040E14**10	
CAP**3617AL*	1.01	1.01	58CV(A,X)070-12	CAP**2414AL*	0.97	0.83	0.99	1.03	59*P2A060E14**12	
CAP**3621AL*	1.00	1.05	58CV(A,X)090-16	CAP**2414AL*	0.96	0.91	0.96	1.07	59*P2A040E14**10	
CAP**3621AL*	1.00	1.05	59*N*A080V17**14	CAP**2417AL*	0.96	0.82	0.98	1.05	58PH*045-08	
CAP**3621AL*	1.00	1.05	59*N*A080V17**14	CAP**2417AL*	0.96	0.86	0.97	1.04	59*P2A040E17**12	
CAP**3621AL*	1.01	1.01	59MN7A060V21**20	CAP**2417AL*	0.95	0.85	0.97	1.06	59*P2A040E17**12	
CAP**3621AL*	1.01	1.01	59*N*A080V21**20	CAP**3014AL*	0.97	0.87	0.97	1.04	59*P2A040E14**10	
CAP**3621AL*	1.01	1.01	59*N*A100V21**22	CAP**3014AL*	0.98	0.84	0.99	1.03	59*P2A060E14**12	
CAP**4221AL*	1.01	1.06	59*N*A080V17**14	CAP**3014AL*	0.97	0.92	0.96	1.07	59*P2A040E14**10	
CAP**4221AL*	1.01	1.06	59*N*A080V17**14	CAP**3014AL*	0.97	0.84	0.97	1.04	58PH*045-08	
CAP**4221AL*	1.01	1.06	59MN7A060V21**20	CAP**3017AL*	0.97	0.83	0.97	1.04	59*P2A040E17**12	
CAP**4221AL*	1.02	1.02	58CV(A,X)090-16	CAP**3017AL*	0.96	0.86	0.97	1.06	59*P2A040E17**12	
CAP**4224AL*	1.01	1.06	59MN7A060V21**20	CAP**3614AL*	0.97	0.83	0.97	1.04	59*P2A040E14**10	
CAP**4817AL*	1.02	1.07	59*N*A080V17**14	CAP**3614AL*	0.98	0.83	0.97	1.04	59*P2A060E14**12	
CAP**4817AL*	1.03	1.03	59*N*A080V17**14	CAP**3614AL*	0.98	0.84	0.99	1.02	59*P2A040E14**10	
CAP**4817AL*	1.03	1.03	58CV(A,X)070-12	CAP**3614AL*	0.97	0.92	0.97	1.07	59*P2A060E14**12	
CAP**4817AL*	1.03	1.03	58CV(A,X)090-16	CAP**3617AL*	0.97	0.84	0.98	1.04	58PH*045-08	
CAP**4821AL*	1.02	1.07	59*N*A080V17**14	CAP**3617AL*	0.97	0.84	0.97	1.04	59*P2A040E17**12	
CAP**4821AL*	1.02	1.02	59*N*A080V17**14	CAP**3617AL*	0.97	0.83	0.97	1.05	59*P2A040E17**12	
CAP**4821AL*	1.03	1.03	58CV(A,X)090-16	CNPV*3014AL*	0.97	0.88	0.97	1.04	59*P2A040E14**10	
CNPV*3617AL*	1.00	1.05	59*N*A080V17**14	CNPV*3014AL*	0.99	0.89	0.99	1.03	59*P2A060E14**12	
CNPV*3621AL*	1.00	1.05	59*N*A080V17**14	CNPV*3014AL*	0.97	0.92	0.96	1.07	59*P2A040E14**10	
CNPV*3621AL*	1.00	1.05	59*N*A080V17**14	CNPV*3017AL*	0.97	0.87	0.97	1.05	59*P2A040E17**12	
CNPV*3621AL*	1.00	1.05	59*N*A080V17**14	CNPV*3017AL*	0.96	0.86	0.96	1.05	59*P2A040E17**12	
CNPV*4217AL*	1.01	1.06	59*N*A080V17**14	CNPV*3617AL*	0.97	0.87	0.97	1.04	59*P2A040E17**12	
CNPV*4217AL*	1.02	1.07	59*N*A080V17**14	CNPV*3617AL*	0.96	0.86	0.96	1.05	59*P2A060E14**12	
CNPV*4217AL*	1.02	1.02	58CV(A,X)070-12	CNPV*4217AL*	0.98	0.84	0.97	1.04	59*P2A040E17**12	
CNPV*4217AL*	1.02	1.02	58CV(A,X)090-16	CNPV*4217AL*	0.97	0.83	0.97	1.05	59*P2A040E17**12	
CNPV*4221AL*	1.01	1.06	59*N*A080V17**14	CSPH*2412AL*	0.96	0.86	0.97	1.05	59*P2A040E17**12	
CNPV*4221AL*	1.01	1.06	59*N*A080V17**14	CSPH*2412AL*	0.97	0.84	0.99	1.03	59*P2A060E14**12	
CNPV*4221AL*	1.02	1.02	58CV(A,X)090-16	CSPH*2412AL*	0.97	0.82	0.96	1.07	59*P2A040E14**10	
CNPV*4821AL*	1.02	1.07	59*N*A080V17**14	CSPH*2412AL*	0.97	0.92	0.97	1.07	59*P2A060E14**12	
CNPV*4821AL*	1.02	1.02	59*N*A080V17**14	CSPH*3012AL*	0.95	0.85	0.97	1.06	59*P2A040E17**12	
CNPV*4821AL*	1.03	1.03	58CV(A,X)090-16	CSPH*3012AL*	0.97	0.87	0.98	1.04	58PH*045-08	
CNPV*4821AL*	1.02	1.07	59*N*A080V17**14	CSPH*3012AL*	0.97	0.87	0.98	1.04	59*P2A040E14**10	
CSPH*3612AL*	1.02	1.07	59*N*A080V17**14	CSPH*3012AL*	0.98	0.84	1.00	1.02	59*P2A060E14**12	
CSPH*3612AL*	1.02	1.07	58CV(A,X)070-12	CSPH*3012AL*	0.97	0.92	0.97	1.07	59*P2A040E14**10	
CSPH*3612AL*	1.03	1.07	58CV(A,X)090-16	CSPH*3012AL*	0.96	0.86	0.97	1.05	59*P2A040E17**12	
CSPH*4212AL*	1.02	1.07	59*N*A080V17**14	CSPH*3612AL*	0.97	0.84	0.99	1.04	58PH*045-08	
CSPH*4212AL*	1.03	1.07	58CV(A,X)070-12	CSPH*3612AL*	0.99	0.85	0.97	1.03	59*P2A040E14**10	
CSPH*4212AL*	1.03	1.07	58CV(A,X)090-16	CSPH*3612AL*	0.98	0.84	0.97	1.03	59*P2A040E17**12	
CSPH*4812AL*	1.03	1.03	58CV(A,X)090-16	CSPH*3612AL*	1.00	0.86	0.99	1.01	59*P2A060E14**12	
CSPH*4812AL*	1.03	1.07	59*N*A080V17**14	CSPH*3612AL*	0.99	0.94	0.97	1.06	59*P2A040E14**10	
CSPH*4812AL*	1.03	1.07	59*N*A080V17**14	CSPH*3612AL*	0.97	0.88	0.97	1.04	59*P2A040E17**12	
				CSPH*3612AL*	1.00	0.86	0.99	1.03	58PH*045-08	

See notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

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	Sensit				
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		250	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			250	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				250	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					250	7.47	6.73	0.48		
72 (22.2)	11.57	6.04	1.00	8.90	4.49	0.58	9.45	4.72	0.52	9.98	4.95	0.45	10.49	5.17	0.37	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		250	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			250	8.54	6.67			0.44				
57 (13.9)	8.99	8.99	1.02	6.65	6.65	0.61	6.66	6.66	0.58	6.96	6.96	0.58	7.27	7.27	0.53				250	7.27	7.27		0.53				
75 (23.9)	72 (22.2)	342	11.60	4.69	1.00	342	8.64	3.49	0.58	222	9.30	3.76	0.52	229	9.74					3.95	0.45	245	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	245	9.32	5.06
	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	245		8.50	5.70
	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		245			7.42	6.65
	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	245					10.43	5.13
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	245	9.31	5.95	0.41								
63 (17.2)	9.50	8.34	1.01	7.03	5.61	0.60	7.57	6.01	0.56	7.92	6.14	0.51	8.49	6.59	0.45		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			245	7.49	7.49		0.48					

STAGE 1 - FEANFOOS ONLY

STAGE 1 - ALL OTHER INDOOR COMBINATIONS

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 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA825

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4ANI(B)F005L	1.00	1.00	
FE4ANIB(F)003	1.01	1.05	
FE4ANF002L	1.01	1.10	
CAP**3614AL*	1.01	1.05	58CV(A,X)070-12
CSPH*3612AL*	1.03	1.11	58CV(A,X)070-12
CSPH*4212AL*	1.03	1.11	58CV(A,X)070-12
CAP**3617AL*	1.01	1.05	58CV(A,X)090-16
CNPV*3617AL*	1.01	1.07	58CV(A,X)090-16
CNPV*4217AL*	1.03	1.07	58CV(A,X)090-16
CSPH*3612AL*	1.03	1.11	58CV(A,X)090-16
CSPH*4212AL*	1.03	1.12	58CV(A,X)090-16
CAP**3617AL*	1.00	1.09	59*N*A060V17**14
CNPV*3617AL*	1.00	1.09	59*N*A060V17**14
CNPV*4217AL*	1.02	1.11	59*N*A060V17**14
CSPH*4212AL*	1.02	1.16	59*N*A060V17**14
CSPH*3612AL*	1.03	1.11	59*N*A060V17**14
CAP**3617AL*	1.01	1.05	59*N*A080V17**14
CNPV*3617AL*	1.00	1.09	59*N*A080V17**14
CNPV*4217AL*	1.02	1.06	59*N*A080V17**14
CSPH*3612AL*	1.02	1.11	59*N*A080V17**14
CSPH*4212AL*	1.03	1.11	59*N*A080V17**14
CNPV*3621AL*	1.01	1.05	59*N*A080V21**20
CAP**3621AL*	1.01	1.10	59MN7A060V21**20
CNPV*3621AL*	1.00	1.09	59MN7A060V21**20
CNPV*4221AL*	1.01	1.05	59MN7A060V21**20
CSPH*3612AL*	1.02	1.11	59MN7A060V21**20
CSPH*4212AL*	1.03	1.11	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(B)F003	0.94	0.98	0.97	1.00		
FV4CNF002L	0.94	0.98	0.98	1.02		
CAP**2414AL*	0.94	1.03	0.98	1.10	58PH*045-08	
CAP**3014AL*	0.95	0.99	0.98	1.09	58PH*045-08	
CAP**3614AL*	0.96	1.00	0.98	1.09	58PH*045-08	
CSPH*2412AL*	0.95	1.08	0.98	1.10	58PH*045-08	
CSPH*3012AL*	0.96	1.04	0.99	1.08	58PH*045-08	
CSPH*3612AL*	0.98	1.02	0.99	1.08	58PH*045-08	
CAP**2414AL*	0.93	1.02	0.96	1.11	59*P2A040E14**10	
CAP**3014AL*	0.94	1.03	0.96	1.10	59*P2A040E14**10	
CAP**3614AL*	0.95	1.03	0.97	1.10	59*P2A040E14**10	
CNPV*3014AL*	0.96	1.04	0.96	1.10	59*P2A040E14**10	
CNPV*3617AL*	0.94	1.03	0.97	1.11	59*P2A040E14**10	
CSPH*2412AL*	0.94	1.03	0.97	1.11	59*P2A040E14**10	
CSPH*3012AL*	0.95	1.03	0.98	1.09	59*P2A040E14**10	
CSPH*3612AL*	0.97	1.05	0.98	1.08	59*P2A040E14**10	
CAP**2417AL*	0.94	1.07	0.96	1.11	59*P2A040E17**12	
CNPV*3014AL*	0.93	1.02	0.97	1.11	59*P2A040E17**12	
CAP**3017AL*	0.95	1.03	0.97	1.10	59*P2A040E17**12	
CAP**3617AL*	0.95	0.99	0.97	1.09	59*P2A040E17**12	
CNPV*3017AL*	0.94	1.03	0.96	1.11	59*P2A040E17**12	
CNPV*3617AL*	0.94	1.03	0.96	1.10	59*P2A040E17**12	
CNPV*4217AL*	0.96	1.00	0.98	1.09	59*P2A040E17**12	
CSPH*4217AL*	0.96	1.00	0.98	1.09	59*P2A040E17**12	
CSPH*2412AL*	0.94	1.07	0.96	1.11	59*P2A040E17**12	
CSPH*3012AL*	0.95	1.03	0.98	1.10	59*P2A040E17**12	
CSPH*3612AL*	0.97	1.05	0.98	1.09	59*P2A040E17**12	
CAP**2414AL*	0.96	1.00	0.99	1.08	59*P2A060E14**12	
CAP**3614AL*	0.97	1.01	0.99	1.08	59*P2A060E14**12	
CNPV*3014AL*	0.98	1.06	0.99	1.08	59*P2A060E14**12	
CSPH*2412AL*	0.95	1.03	0.99	1.08	59*P2A060E14**12	
CSPH*3012AL*	0.97	1.05	1.00	1.07	59*P2A060E14**12	
CSPH*3612AL*	0.98	1.02	1.01	1.06	59*P2A060E14**12	
CAP**2414AL*	0.93	1.06	0.96	1.14	59*PSA040E14**10	
CAP**3014AL*	0.95	1.08	0.96	1.13	59*PSA040E14**10	
CAP**3614AL*	0.95	1.08	0.96	1.13	59*PSA040E14**10	
CNPV*3014AL*	0.94	1.07	0.96	1.13	59*PSA040E14**10	
CSPH*2412AL*	0.94	1.12	0.96	1.14	59*PSA040E14**10	
CSPH*3012AL*	0.95	1.08	0.97	1.12	59*PSA040E14**10	
CSPH*3612AL*	0.97	1.10	0.98	1.12	59*PSA040E14**10	
CAP**2417AL*	0.93	1.01	0.96	1.12	59*PSA040E17**12	
CAP**3017AL*	0.94	1.03	0.96	1.11	59*PSA040E17**12	
CAP**3617AL*	0.94	1.03	0.97	1.11	59*PSA040E17**12	
CNPV*3017AL*	0.93	1.02	0.96	1.12	59*PSA040E17**12	
CNPV*3617AL*	0.93	1.02	0.96	1.12	59*PSA040E17**12	
CNPV*4217AL*	0.95	1.03	0.98	1.11	59*PSA040E17**12	
CSPH*2412AL*	0.93	1.06	0.96	1.12	59*PSA040E17**12	
CSPH*3012AL*	0.94	1.03	0.98	1.11	59*PSA040E17**12	
CSPH*3612AL*	0.96	1.04	0.98	1.10	59*PSA040E17**12	

See notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB °F (°C)	EVAP. AIR		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	°F (°C)	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	
75 (23.9)	72 (22.2)	34.41	13.87	3.52	36.07	14.52	3.23	38.26	15.40	2.95	40.48	16.29	2.67	42.89	17.25	2.40	948	948	42.89	17.25	2.40	
	67 (19.4)	31.28	17.06	3.45	32.82	18.35	3.16	34.81	19.41	2.89	36.83	20.49	2.63	39.01	21.75	2.38						
	63 (17.2)	28.96	20.61	3.39	30.39	21.30	3.10	32.22	22.51	2.85	34.07	23.75	2.60	30.74	18.23	4.07						
	57 (13.9)	25.84	24.91	3.30	27.09	25.64	3.03	28.72	27.04	2.79	30.37	28.48	2.56	28.52	21.76	3.99						
	72 (22.2)	34.33	17.65	3.52	35.98	18.32	3.23	38.18	19.39	2.95	40.34	20.45	2.67	42.61	26.01	3.90						
80 (26.7)	67 (19.4)	31.22	21.37	3.45	32.75	22.08	3.16	34.75	23.33	2.89	36.76	24.61	2.63	33.65	18.17	4.17	948	948	33.65	18.17	4.17	
	63 (17.2)	28.92	24.31	3.39	30.34	25.03	3.10	32.18	26.41	2.85	34.02	27.82	2.60	30.66	22.60	4.07						
	57 (13.9)	26.99	26.99	3.34	28.06	28.06	3.05	29.68	29.68	2.81	31.34	31.34	2.57	28.51	26.12	3.99						
	72 (22.2)	21.33	8.62	2.14	22.26	8.99	1.80	23.79	9.60	1.53	25.26	10.19	1.29	26.82	10.82	1.07						
	67 (19.4)	19.21	10.97	2.13	20.08	11.37	1.78	21.48	12.15	1.53	22.80	12.86	1.30	24.22	13.70	1.08						
75 (23.9)	63 (17.2)	17.68	12.82	2.12	18.92	13.25	1.77	19.80	14.15	1.53	21.03	14.96	1.30	22.34	15.92	1.09	664	664	22.34	15.92	1.09	
	57 (13.9)	15.76	15.54	2.10	16.50	16.02	1.75	17.65	17.11	1.52	18.74	18.07	1.31	19.91	19.23	1.11						
	72 (22.2)	21.30	11.04	2.14	22.20	11.42	1.80	23.73	12.20	1.53	25.20	12.92	1.29	26.77	13.74	1.07						
	67 (19.4)	19.17	13.36	2.13	20.04	13.77	1.78	21.43	14.71	1.53	22.75	15.55	1.30	24.18	16.55	1.08						
	63 (17.2)	17.67	15.20	2.12	18.51	15.64	1.77	19.79	16.70	1.53	21.01	17.64	1.30	22.33	18.78	1.09						
80 (26.7)	57 (13.9)	16.63	16.63	2.11	17.30	17.30	1.76	18.49	18.49	1.52	19.59	19.59	1.30	20.84	20.84	1.10	664	664	20.84	20.84	1.10	
	72 (22.2)	14.17	5.74	1.50	9.11	3.68	0.68	9.70	3.92	0.52	10.29	4.16	0.38	11.09	4.48	0.26						
	67 (19.4)	12.71	7.33	1.51	8.12	4.54	0.70	8.64	4.78	0.54	9.16	5.03	0.40	9.89	5.42	0.28						
	63 (17.2)	11.65	8.59	1.51	7.40	5.21	0.71	7.88	5.46	0.56	8.35	5.71	0.42	9.01	6.16	0.30						
	57 (13.9)	10.35	10.35	1.51	6.44	6.21	0.72	6.86	6.46	0.57	7.27	6.71	0.44	7.86	7.24	0.32						
75 (23.9)	72 (22.2)	14.11	7.38	1.50	9.09	4.60	0.68	9.68	4.85	0.52	10.26	5.10	0.38	11.06	5.50	0.26	267	267	11.06	5.50	0.26	
	67 (19.4)	12.68	8.97	1.51	8.10	5.46	0.70	8.62	5.71	0.54	9.14	5.97	0.40	9.86	6.44	0.28						
	63 (17.2)	11.65	10.21	1.51	7.38	6.13	0.71	7.86	6.39	0.56	8.34	6.65	0.42	9.00	7.18	0.30						
	57 (13.9)	11.03	11.03	1.51	6.76	6.76	0.72	7.12	7.12	0.57	7.46	7.46	0.44	8.06	8.06	0.32						
	72 (22.2)	14.17	5.74	1.50	8.96	3.62	0.69	9.48	3.83	0.52	10.23	4.13	0.38	11.09	4.48	0.26						
80 (26.7)	67 (19.4)	14.17	5.74	1.50	7.98	4.42	0.71	8.44	4.62	0.55	9.11	4.99	0.41	9.88	5.42	0.28	267	267	9.88	5.42	0.28	
	63 (17.2)	14.17	5.74	1.50	7.27	5.05	0.72	7.69	5.25	0.56	8.30	5.65	0.42	9.01	6.16	0.30						
	57 (13.9)	14.17	5.74	1.50	6.32	5.98	0.73	6.69	6.17	0.58	7.23	6.64	0.44	7.85	7.24	0.33						
	72 (22.2)	14.17	5.74	1.50	8.94	4.49	0.69	9.43	4.69	0.52	10.20	5.06	0.38	11.06	5.50	0.26						
	67 (19.4)	14.17	5.74	1.50	7.96	5.29	0.71	8.42	5.49	0.55	9.09	5.91	0.41	9.86	6.43	0.28						
80 (26.7)	63 (17.2)	14.17	5.74	1.50	7.26	5.92	0.72	7.67	6.11	0.56	8.29	6.58	0.42	8.99	7.17	0.30	267	267	8.99	7.17	0.30	
	57 (13.9)	14.17	5.74	1.50	6.58	6.58	0.72	6.86	6.86	0.57	7.40	7.40	0.44	8.06	8.06	0.32						
	72 (22.2)	14.17	5.74	1.50	8.96	3.62	0.69	9.48	3.83	0.52	10.23	4.13	0.38	11.09	4.48	0.26						
	67 (19.4)	14.17	5.74	1.50	7.98	4.42	0.71	8.44	4.62	0.55	9.11	4.99	0.41	9.88	5.42	0.28						
	63 (17.2)	14.17	5.74	1.50	7.27	5.05	0.72	7.69	5.25	0.56	8.30	5.65	0.42	9.01	6.16	0.30						

STAGE 1 - FEANF005 ONLY

STAGE 1 - ALL OTHER INDOOR COMBINATIONS

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 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA836

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005	1.00	1.00	
FE4AN(B,F)003	0.96	1.06	
FE4ANF002	0.95	1.05	
CAP**3614AL*	0.95	1.05	58CV(A,X)070-12
CSPH*3612AL*	0.97	1.07	58CV(A,X)070-12
CSPH*4212AL*	0.98	1.08	58CV(A,X)070-12
CSPH*4812AL*	0.98	1.09	58CV(A,X)090-16
CAP**3617AL*	0.96	1.06	58CV(A,X)090-16
CAP**4817AL*	0.98	1.03	58CV(A,X)090-16
CNPV*3617AL*	0.95	1.05	58CV(A,X)090-16
CNPV*4217AL*	0.97	1.07	58CV(A,X)090-16
CSPH*3612AL*	0.98	1.08	58CV(A,X)090-16
CSPH*4212AL*	0.98	1.09	58CV(A,X)090-16
CSPH*4812AL*	0.98	1.09	58CV(A,X)090-16
CAP**3621AL*	0.96	1.06	58CV(A,X)110-20
CAP**4221AL*	0.96	1.07	58CV(A,X)110-20
CNPV*4217AL*	0.98	1.03	58CV(A,X)110-20
CSPH*3612AL*	0.98	1.08	58CV(A,X)110-20
CSPH*4212AL*	0.95	1.05	58CV(A,X)110-20
CNPV*4221AL*	0.96	1.07	58CV(A,X)110-20
CNPV*4812AL*	0.98	1.03	58CV(A,X)110-20
CSPH*3612AL*	0.98	1.08	58CV(A,X)110-20
CSPH*4212AL*	0.98	1.09	58CV(A,X)135-22
CAP**4824AL*	0.98	1.03	58CV(A,X)135-22
CNPV*4824AL*	0.98	1.03	58CV(A,X)135-22
CSPH*3612AL*	0.98	1.08	58CV(A,X)135-22
CSPH*4212AL*	0.98	1.09	58CV(A,X)135-22
CAP**4824AL*	0.98	1.03	58CV(A,X)155-22
CNPV*4824AL*	0.98	1.03	58CV(A,X)155-22
CSPH*3612AL*	0.98	1.08	58CV(A,X)155-22
CSPH*4212AL*	0.98	1.09	58CV(A,X)155-22
CAP**3617AL*	0.95	1.11	59*N*A060V17**14
CAP**4817AL*	0.97	1.07	59*N*A060V17**14
CNPV*4217AL*	0.96	1.07	59*N*A060V17**14
CSPH*3612AL*	0.96	1.13	59*N*A060V17**14
CSPH*4212AL*	0.98	1.14	59*N*A060V17**14
CAP**3617AL*	0.95	1.05	59*N*A060V17**14
CAP**4817AL*	0.98	1.08	59*N*A060V17**14
CNPV*3617AL*	0.95	1.11	59*N*A060V17**14
CNPV*4217AL*	0.96	1.07	59*N*A060V17**14
CSPH*3612AL*	0.97	1.13	59*N*A060V17**14
CSPH*4212AL*	0.98	1.14	59*N*A060V17**14
CAP**3621AL*	0.96	1.06	59*N*A060V21**20
CAP**4221AL*	0.96	1.07	59*N*A060V21**20
CNPV*4217AL*	0.98	1.03	59*N*A060V21**20
CSPH*3612AL*	0.98	1.08	59*N*A060V21**20
CSPH*4212AL*	0.98	1.09	59*N*A060V21**20
CSPH*4812AL*	0.98	1.09	59*N*A060V21**20
CNPV*4221AL*	0.96	1.07	59*N*A060V21**20

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
CNPV*4821AL*	0.98	1.08	59*N*A080V21**20
CSPH*3612AL*	0.98	1.08	59*N*A080V21**20
CSPH*4212AL*	0.98	1.09	59*N*A080V21**20
CSPH*4812AL*	0.98	1.09	59*N*A080V21**20
CAP**3621AL*	0.96	1.07	59*N*A100V21**22
CAP**4221AL*	0.96	1.03	59*N*A100V21**22
CNPV*4221AL*	0.95	1.05	59*N*A100V21**22
CNPV*4812AL*	0.96	1.07	59*N*A100V21**22
CNPV*4221AL*	0.98	1.03	59*N*A100V21**22
CSPH*3612AL*	0.98	1.08	59*N*A100V21**22
CSPH*4212AL*	0.98	1.09	59*N*A100V21**22
CSPH*4812AL*	0.98	1.09	59*N*A100V21**22
CAP**4224AL*	0.96	1.07	59*N*A120V24**22
CAP**4824AL*	0.98	1.03	59*N*A120V24**22
CNPV*4221AL*	0.98	1.08	59*N*A120V24**22
CSPH*3612AL*	0.98	1.14	59*N*A120V24**22
CSPH*4212AL*	0.98	1.09	59*N*A120V24**22
CSPH*4812AL*	0.98	1.09	59*N*A120V24**22
CAP**3621AL*	0.95	1.05	59MN7A060V21**20
CAP**4221AL*	0.96	1.06	59MN7A060V21**20
CNPV*4221AL*	0.97	1.07	59MN7A060V21**20
CNPV*4821AL*	0.95	1.11	59MN7A060V21**20
CNPV*4221AL*	0.96	1.06	59MN7A060V21**20
CNPV*4821AL*	0.98	1.08	59MN7A060V21**20
CSPH*3612AL*	0.97	1.13	59MN7A060V21**20
CSPH*4212AL*	0.98	1.08	59MN7A060V21**20
CSPH*4812AL*	0.97	1.13	59MN7A060V21**20
CSPH*4212AL*	0.98	1.08	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)					
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
FV4CN(B,F)003	0.97	0.97	1.09	1.13	
FV4CNF002L	0.95	1.00	1.06	1.18	
CAP**3614AL*	0.94	1.05	1.08	1.19	56PH*045-08
CSPH*3612AL*	0.97	1.08	1.08	1.18	56PH*045-08
CSPH*4212AL*	0.98	1.09	1.08	1.17	56PH*045-08
CSPH*4812AL*	0.98	1.09	1.09	1.17	56PH*045-08
CNPV*4217AL*	0.97	1.02	1.08	1.14	58CTW070-16
CAP**3617AL*	0.94	1.05	1.07	1.34	59*P2A040E17**12
CAP**4817AL*	0.98	1.09	1.07	1.19	59*P2A040E17**12
CNPV*3617AL*	0.94	1.04	1.05	1.22	59*P2A040E17**12
CNPV*4217AL*	0.96	1.07	1.07	1.21	59*P2A040E17**12
CSPH*3612AL*	0.97	1.07	1.07	1.21	59*P2A040E17**12
CSPH*4212AL*	0.97	1.08	1.07	1.20	59*P2A040E17**12
CSPH*4812AL*	0.98	1.09	1.08	1.20	59*P2A040E17**12
CAP**3614AL*	0.95	1.00	1.07	1.18	59*P2A060E14**12
CSPH*3612AL*	0.98	1.03	1.09	1.17	59*P2A060E14**12
CSPH*4212AL*	0.98	1.03	1.09	1.15	59*P2A060E14**12
CSPH*4812AL*	0.99	1.04	1.09	1.15	59*P2A060E14**12
CAP**4817AL*	0.95	1.00	1.07	1.14	59*P2A060E17**14
CAP**3617AL*	0.99	0.99	1.08	1.11	59*P2A060E17**14
CNPV*3617AL*	0.95	1.00	1.06	1.14	59*P2A060E17**14
CNPV*4217AL*	0.97	1.02	1.08	1.13	59*P2A060E17**14
CNPV*4812AL*	0.98	1.03	1.08	1.13	59*P2A060E17**14
CSPH*3612AL*	0.98	1.03	1.09	1.13	59*P2A060E17**14
CSPH*4212AL*	0.98	1.03	1.09	1.13	59*P2A060E17**14
CSPH*4812AL*	0.99	1.04	1.09	1.12	59*P2A060E17**14
CAP**4817AL*	0.95	1.00	1.07	1.14	59*P2A060E17**16
CAP**3617AL*	0.99	0.99	1.09	1.12	59*P2A060E17**16
CNPV*4817AL*	0.95	1.00	1.06	1.14	59*P2A060E17**16
CNPV*4217AL*	0.97	0.97	1.08	1.13	59*P2A060E17**16
CSPH*3612AL*	0.98	1.03	1.08	1.13	59*P2A060E17**16
CSPH*4212AL*	0.98	1.03	1.09	1.13	59*P2A060E17**16
CSPH*4812AL*	0.99	1.04	1.09	1.12	59*P2A060E17**16
CNPV*4217AL*	0.96	1.07	1.08	1.36	59*P5A040E17**12
CSPH*3612AL*	0.97	1.14	1.08	1.36	59*P5A040E17**12
CAP**3614AL*	0.94	1.10	1.05	1.23	59*P5A060E14**12
CSPH*3612AL*	0.96	1.13	1.07	1.22	59*P5A060E14**12
CSPH*4212AL*	0.97	1.14	1.07	1.21	59*P5A060E14**12
CSPH*4812AL*	0.97	1.14	1.08	1.21	59*P5A060E14**12
CAP**3617AL*	0.95	1.00	1.06	1.16	59*P5A060E17**14
CAP**4817AL*	0.98	1.03	1.08	1.14	59*P5A060E17**14
CNPV*4817AL*	0.95	1.00	1.06	1.17	59*P5A060E17**14
CNPV*4217AL*	0.97	1.02	1.07	1.15	59*P5A060E17**14
CSPH*3612AL*	0.97	1.02	1.07	1.15	59*P5A060E17**14
CSPH*4212AL*	0.98	1.03	1.08	1.15	59*P5A060E17**14
CSPH*4812AL*	0.98	1.03	1.08	1.15	59*P5A060E17**14

See notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

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					
	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					
75 (23.9)	63 (17.2)	744	24.74	17.92	2.56	801	26.64	19.39	2.23	842	28.46	20.78	1.97	887	30.37	22.07	1.72	1001	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					
	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					
	67 (19.4)		26.77	18.85	2.57		28.80	20.17	2.24		30.80	21.51	1.96		32.83	22.97	1.71					
	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					
80 (26.7)	57 (13.9)	744	23.28	23.28	2.55	801	25.15	25.15	2.23	842	26.88	26.88	1.97	887	28.66	28.66	1.73	1001	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					
	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					
	63 (17.2)		21.21	15.43	2.25		14.83	10.71	1.07		15.98	11.55	0.92		17.16	12.41	0.77					
	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					
75 (23.9)	72 (22.2)	662	25.43	13.24	2.25	457	17.75	9.19	1.03	482	19.14	9.91	0.86	508	20.56	10.65	0.70	534	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					
	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					
	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					
	72 (22.2)		23.02	13.19	2.25		16.09	9.17	1.06		17.34	9.88	0.90		18.62	10.62	0.74					
80 (26.7)	67 (19.4)	662	22.97	16.07	2.25	457	16.05	11.14	1.06	482	17.30	12.01	0.90	508	18.57	12.91	0.74	534	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					
	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					
	72 (22.2)		23.02	13.19	2.25		16.09	9.17	1.06		17.34	9.88	0.90		18.62	10.62	0.74					
	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					

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 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA848

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B)F005L	1.00	1.00	
FE4ANR006	1.01	1.01	
CAP**4817AL*	0.98	1.08	56CV(A.X)090-16
CSPH*4812AL*	0.99	1.15	58CV(A.X)090-16
CSPH*6012AL*	1.00	1.10	58CV(A.X)090-16
CAP**4821AL*	0.98	1.02	56CV(A.X)110-20
CAP**6021AL*	1.00	1.05	56CV(A.X)110-20
CNPV*4821AL*	0.98	1.02	56CV(A.X)110-20
CSPH*4812AL*	0.99	1.09	58CV(A.X)110-20
CSPH*6012AL*	1.00	1.10	58CV(A.X)110-20
CAP**4824AL*	0.98	1.02	58CV(A.X)135-22
CAP**6024AL*	1.00	1.05	58CV(A.X)135-22
CNPV*4824AL*	0.98	1.02	58CV(A.X)135-22
CNPV*6024AL*	1.00	1.00	58CV(A.X)135-22
CSPH*4812AL*	0.99	1.09	58CV(A.X)135-22
CSPH*6012AL*	1.01	1.11	58CV(A.X)135-22
CAP**4824AL*	0.98	1.02	58CV(A.X)155-22
CAP**6024AL*	1.00	1.00	58CV(A.X)155-22
CNPV*4824AL*	0.99	1.04	58CV(A.X)155-22
CNPV*6024AL*	0.99	0.99	58CV(A.X)155-22
CSPH*4812AL*	0.99	1.09	58CV(A.X)155-22
CSPH*6012AL*	1.01	1.06	58CV(A.X)155-22
CAP**4821AL*	0.98	1.08	59*N*A080V21**20
CAP**6021AL*	1.00	1.05	59*N*A080V21**20
CNPV*4821AL*	0.98	1.02	59*N*A080V21**20
CNPV*6021AL*	0.99	1.15	59*N*A080V21**20
CSPH*4812AL*	1.00	1.16	59*N*A080V21**20
CAP**4821AL*	0.98	1.02	59*N*A100V21**22
CAP**6021AL*	1.00	1.05	59*N*A100V21**22
CNPV*4821AL*	0.98	1.02	59*N*A100V21**22
CNPV*6021AL*	0.99	1.09	59*N*A100V21**22
CSPH*4812AL*	1.00	1.10	59*N*A100V21**22
CAP**4824AL*	0.98	1.02	59*N*A120V24**22
CAP**6024AL*	1.00	1.05	59*N*A120V24**22
CNPV*4824AL*	0.98	1.02	59*N*A120V24**22
CNPV*6024AL*	0.99	1.15	59*N*A120V24**22
CSPH*4812AL*	1.00	1.10	59*N*A120V24**22
CAP**4821AL*	0.97	1.06	59MN7A060V21**20
CAP**6021AL*	0.99	1.09	59MN7A060V21**20
CNPV*4821AL*	0.97	1.06	59MN7A060V21**20
CNPV*6021AL*	0.99	1.15	59MN7A060V21**20
CSPH*4812AL*	0.99	1.15	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(B)F005L	1.00	1.00	1.00	1.00		
FV4CNB006	1.02	1.02	1.01	0.97		
CAP**4817AL*	0.97	1.12	0.98	1.10	58PH*070-16	
CSPH*4812AL*	0.97	1.12	0.98	1.09	58PH*070-16	
CSPH*6012AL*	0.99	1.15	0.99	1.09	58PH*070-16	
CAP**4821AL*	0.97	1.01	0.98	1.03	58PH*090-16	
CAP**6021AL*	0.99	1.04	0.99	1.02	58PH*090-16	
CNPV*4821AL*	0.97	1.01	0.99	1.02	58PH*090-16	
CNPV*6021AL*	0.98	1.08	0.99	1.03	58PH*090-16	
CSPH*4812AL*	1.00	1.05	1.01	1.02	58PH*090-16	
CSPH*6012AL*	0.97	1.01	0.99	1.03	58PH*110-20	
CAP**4821AL*	1.00	1.00	1.00	1.02	58PH*110-20	
CAP**6021AL*	0.98	1.02	0.99	1.03	58PH*110-20	
CNPV*4821AL*	0.98	1.05	1.00	1.03	58PH*110-20	
CNPV*6021AL*	1.00	1.08	1.01	1.02	58PH*110-20	
CSPH*4812AL*	0.97	1.06	0.98	1.06	58CTW070-16	
CSPH*6012AL*	0.98	1.08	0.99	1.07	58CTW070-16	
CAP**4817AL*	0.97	1.01	0.98	1.02	58CTW090-16	
CAP**6017AL*	0.99	1.04	0.99	1.01	58CTW090-16	
CNPV*4817AL*	0.98	1.02	0.99	1.02	58CTW090-16	
CNPV*6017AL*	0.99	1.08	1.00	1.02	58CTW090-16	
CSPH*4812AL*	1.00	1.05	1.00	1.01	58CTW090-16	
CAP**4821AL*	0.97	1.01	0.98	1.00	58CTW10-22	
CAP**6021AL*	0.98	1.02	0.99	1.00	58CTW10-22	
CNPV*4821AL*	0.98	1.02	0.99	1.00	58CTW10-22	
CNPV*6021AL*	1.00	1.00	0.99	1.00	58CTW10-22	
CSPH*4812AL*	0.98	1.02	0.99	1.01	58CTW10-22	
CSPH*6012AL*	0.98	1.02	0.99	1.01	58CTW10-22	
CAP**4824AL*	0.97	1.01	0.98	1.00	58CTW10-22	
CAP**6024AL*	1.00	1.00	0.99	1.00	58CTW135-22	
CNPV*4824AL*	0.98	1.02	0.99	1.00	58CTW135-22	
CNPV*6024AL*	1.00	1.00	1.00	1.00	58CTW135-22	
CSPH*4812AL*	0.98	1.02	0.99	1.00	58CTW135-22	
CSPH*6012AL*	1.00	1.05	1.00	0.99	58CTW135-22	
CAP**4817AL*	0.97	1.08	0.99	1.04	59*P2A080E17**16	
CSPH*4812AL*	0.98	1.08	0.99	1.04	59*P2A080E17**16	
CSPH*6012AL*	1.00	1.10	1.00	1.03	59*P2A080E17**16	
CAP**4821AL*	0.98	1.02	0.98	1.01	59*P2A080E21**20	
CAP**6021AL*	1.00	1.05	0.99	1.01	59*P2A080E21**20	
CNPV*4821AL*	0.98	1.02	0.99	1.01	59*P2A080E21**20	
CNPV*6021AL*	0.99	1.09	0.99	1.01	59*P2A080E21**20	
CSPH*4812AL*	1.01	1.06	1.01	1.00	59*P2A080E21**20	
CSPH*6012AL*	0.98	1.02	0.98	1.01	59*P2A100E21**20	
CAP**4821AL*	1.00	1.05	0.99	1.01	59*P2A100E21**20	
CAP**6021AL*	0.98	1.02	0.99	1.01	59*P2A100E21**20	
CNPV*4821AL*	0.98	1.02	0.99	1.01	59*P2A100E21**20	
CNPV*6021AL*	1.00	1.05	0.99	1.01	59*P2A100E21**20	
CSPH*4812AL*	0.99	1.09	0.99	1.02	59*P2A100E21**20	
CSPH*6012AL*	1.01	1.08	1.01	1.01	59*P2A100E21**20	
CAP**4824AL*	0.98	1.02	0.99	1.02	59*P2A120E24**20	
CAP**6024AL*	1.00	1.05	0.99	1.01	59*P2A120E24**20	
CNPV*4824AL*	0.98	1.02	0.99	1.01	59*P2A120E24**20	
CNPV*6024AL*	1.00	1.05	1.00	1.01	59*P2A120E24**20	
CSPH*4812AL*	0.98	1.08	0.99	1.02	59*P2A120E24**20	

2-STAGE (Hi-Stage 5, Lo-Stage 2)						
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
CSPH*6012AL*	1.01	1.06	1.01	1.01	59*P2A120E24**20	
CAP**4817AL*	0.97	1.06	0.98	1.06	59*P5A090E17**16	
CSPH*4812AL*	0.97	1.12	0.98	1.06	59*P5A090E17**16	
CSPH*6012AL*	0.99	1.09	0.99	1.05	59*P5A090E17**16	
CAP**4821AL*	0.97	1.01	0.99	1.01	59*P5A100E21**20	
CAP**6021AL*	0.99	1.04	1.00	1.07	59*P5A100E21**20	
CNPV*4821AL*	0.97	1.01	0.99	1.01	59*P5A100E21**20	
CNPV*6021AL*	0.98	1.08	1.00	1.08	59*P5A100E21**20	

See notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA360 / FE4AN0061 Comfort + Dehumidify Mode
Condenser Entering Air Temperature F (°C)

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)	1367	56.98	22.75	6.30	1440	61.18	24.39	5.69	1514	65.39	26.02	5.16	1566	69.54	27.67	4.85	1488	72.77	28.99	4.11	
	67 (19.4)		57.22	39.64	4.45		52.98	29.89	5.92		58.86	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)		54.89	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)	1367	48.26	40.83	5.99	1440	51.80	43.73	5.39	1514	55.34	46.67	4.87	1566	58.85	49.38	4.37	1488	61.43	50.01	3.85	
	63 (17.2)		48.26	40.83	5.99		46.16	46.16	5.69		49.48	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		47.48	19.02	1.97	
	67 (19.4)		32.79	18.66	3.00		35.72	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)	959	30.18	21.81	2.97	1013	32.38	23.34	2.61	1066	34.71	24.92	2.34	1120	37.06	26.53	2.10	1210	39.65	28.52	1.91	
	57 (13.9)		26.75	26.42	2.95		28.76	28.28	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)	748	28.27	28.27	2.96	1013	30.32	30.32	2.59	1066	32.44	32.44	2.32	1120	34.59	34.59	2.08	1210	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	0.78		23.90	9.62	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	15.64	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)	748	26.42	13.61	1.96	600	19.25	9.91	1.08	600	20.51	10.39	0.94	647	22.16	11.21	0.78	700	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	0.78		23.90	9.62	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 65 outdoor; Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 36

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA860

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FEAAN006L	1.00	1.00	
CAP**6021AL*	0.97	1.02	58CV(A,X)110-20
CAP**6024AL*	0.97	1.02	58CV(A,X)110-20
CNPV*6024AL*	0.97	0.97	58CV(A,X)110-20
CSPH*6012AL*	0.98	1.03	58CV(A,X)110-20
CAP**6024AL*	0.97	0.97	58CV(A,X)135-22
CNPV*6024AL*	0.97	0.97	58CV(A,X)135-22
CSPH*6012AL*	0.98	1.03	58CV(A,X)135-22
CAP**6024AL*	0.98	0.98	58CV(A,X)155-22
CNPV*6024AL*	0.98	0.98	58CV(A,X)155-22
CSPH*6012AL*	0.98	1.03	58CV(A,X)155-22
CAP**6021AL*	0.97	1.02	59*N*A080V21**20
CAP**6024AL*	0.97	1.02	59*N*A080V21**20
CNPV*6024AL*	0.97	1.02	59*N*A080V21**20
CSPH*6012AL*	0.97	1.02	59*N*A080V21**20
CAP**6021AL*	0.97	1.02	59*N*A100V21**22
CAP**6024AL*	0.97	1.02	59*N*A100V21**22
CNPV*6024AL*	0.97	1.02	59*N*A100V21**22
CSPH*6012AL*	0.98	1.03	59*N*A100V21**22
CAP**6024AL*	0.97	1.02	59*N*A120V24**22
CNPV*6024AL*	0.97	1.02	59*N*A120V24**22
CSPH*6012AL*	0.97	1.02	59*N*A120V24**22
CAP**6021AL*	0.96	1.07	59MN7A080V21**20
CAP**6024AL*	0.96	1.07	59MN7A080V21**20
CNPV*6024AL*	0.96	1.07	59MN7A080V21**20
CSPH*6012AL*	0.96	1.07	59MN7A080V21**20

Cooling Indoor Model	2-STAGE (Hi- Stages 5, Lo- Stages 2)				Furnace Model
	High Speed Cap.	Power	Low Speed Cap.	Power	
*FV4CNB006L	1.00	1.00	1.00	1.00	
CAP**6021AL*	1.00	1.11	0.99	1.06	59*P2A080E21**20
CAP**6024AL*	1.00	1.11	0.99	1.06	59*P2A100E21**20
CNPV*6021AL*	1.01	1.12	0.99	1.05	58PH*110-20
CNPV*6024AL*	1.01	1.12	0.99	1.05	58CTW110-22
CSPH*6012AL*	1.00	1.11	0.99	1.06	59*P2A120E24**20
CAP**6024AL*	1.01	1.12	0.99	1.05	58CTW135-22
CNPV*6024AL*	1.00	1.11	0.99	1.06	59*P2A120E24**20
CNPV*6024AL*	1.00	1.11	0.99	1.04	58PH*135-20
CNPV*6024AL*	1.01	1.12	0.99	1.05	58CTW135-22
CNPV*6024AL*	1.00	1.11	1.00	1.09	OVLAA0800154
CSPH*6012AL*	1.01	1.12	1.00	1.06	58PH*110-20
CSPH*6012AL*	1.01	1.12	1.00	1.05	58PH*135-20
CSPH*6012AL*	1.01	1.12	1.00	1.05	58CTW110-22
CSPH*6012AL*	1.01	1.12	1.00	1.05	58CTW135-22

NOTES:

- * Tested combination.
- † 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		25VNA824A / 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	13.88	12.75	1.96	825	20.11	18.34	2.16	825	21.74	19.31	2.03	825	21.50	19.10	2.13
70 (21.1)		13.81	12.69	2.04		19.90	18.14	2.26		21.50	19.10	2.13				
75 (23.3)		13.72	12.61	2.12		19.71	17.97	2.36		21.27	18.89	2.22				
STAGE 3																
65 (18.3)	340	9.32	8.57	1.42	500	11.26	10.27	1.36	650	13.17	11.70	1.22	650	12.99	11.54	1.29
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)	342	9.32	8.56	1.42	500	11.23	10.24	1.35	650	13.17	11.70	1.22	650	12.99	11.54	1.29
70 (21.1)		9.19	8.45	1.48		11.07	10.10	1.41		12.99	11.54	1.29				
75 (23.3)		9.07	8.34	1.53		10.87	9.91	1.47		12.82	11.39	1.35				

INDOOR AIR		25VNA824A / 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	23.91	21.76	2.02	825	25.34	25.34	1.97	650	18.08	18.08	1.21	650	18.11	18.11	1.28
70 (21.1)		23.61	21.48	2.11		25.00	25.00	2.06		18.11	18.11	1.28				
75 (23.3)		23.30	21.20	2.21		24.63	24.63	2.15		17.37	17.37	1.34				
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 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA824A

HEATING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL
*FE4ANIB.FI005L	1.00	1.00		
FE4ANIB.FI003	1.00	1.02		
FE4ANF002L	1.04	1.06		
CAP**3614AL*	1.03	1.06		58CV(A.X)070-12
CSPH*3612AL*	1.02	1.02		58CV(A.X)070-12
CSPH*4212AL*	1.01	1.01		58CV(A.X)070-12
CAP**3617AL*	1.05	1.05		58CV(A.X)090-16
CNPV*3617AL*	1.03	1.06		58CV(A.X)090-16
CNPV*4217AL*	1.02	1.02		58CV(A.X)090-16
CSPH*3612AL*	1.02	1.02		58CV(A.X)090-16
CSPH*4212AL*	1.01	1.00		58CV(A.X)090-16
CAP**3617AL*	1.03	1.07		59*N*A060V17**14
CNPV*3617AL*	1.04	1.06		59*N*A060V17**14
CNPV*4217AL*	1.02	1.04		59*N*A060V17**14
CSPH*3612AL*	1.02	1.04		59*N*A060V17**14
CSPH*4212AL*	1.03	1.03		59*N*A060V17**14
CAP**3617AL*	1.02	1.06		59*N*A080V17**14
CNPV*3617AL*	1.04	1.08		59*N*A080V17**14
CNPV*4217AL*	1.02	1.04		59*N*A080V17**14
CSPH*3612AL*	1.02	1.04		59*N*A080V17**14
CSPH*4212AL*	1.04	1.07		59*N*A080V21**20
CAP**3621AL*	1.03	1.06		59MN7A060V21**20
CNPV*4221AL*	1.03	1.06		59MN7A060V21**20
CSPH*3612AL*	1.02	1.04		59MN7A060V21**20
CSPH*4212AL*	1.02	1.02		59MN7A060V21**20

2-STAGE (HI-Stage 5, Lo-Stage 3)					
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
FV4CN(B.FI003	0.84	0.92	0.77	0.82	
FV4CNF002L	0.84	0.90	0.77	0.81	
CAP**2414AL*	0.84	0.92	1.05	1.12	58PH*045-08
CAP**3014AL*	0.84	0.92	1.03	1.09	58PH*045-08
CAP**3614AL*	0.84	0.91	1.02	1.07	58PH*045-08
CSPH*2412AL*	0.84	0.91	1.04	1.11	58PH*045-08
CSPH*3012AL*	0.84	0.88	1.04	1.08	58PH*045-08
CSPH*3612AL*	0.84	0.88	1.02	1.05	58PH*045-08
CAP**2414AL*	0.84	0.93	1.05	1.15	59*P2A040E14**10
CAP**3014AL*	0.84	0.93	1.02	1.11	59*P2A040E14**10
CAP**3614AL*	0.84	0.92	1.02	1.10	59*P2A040E14**10
CNPV*3014AL*	0.84	0.90	1.02	1.11	59*P2A040E14**10
CSPH*2412AL*	0.84	0.92	1.04	1.13	59*P2A040E14**10
CSPH*3012AL*	0.84	0.90	1.04	1.11	59*P2A040E14**10
CSPH*3612AL*	0.84	0.89	1.02	1.08	59*P2A040E14**10
CAP**2417AL*	0.84	0.92	1.05	1.14	59*P2A040E17**12
CAP**3017AL*	0.84	0.92	1.02	1.11	59*P2A040E17**12
CAP**3617AL*	0.84	0.92	1.02	1.10	59*P2A040E17**12
CNPV*3017AL*	0.84	0.93	1.02	1.11	59*P2A040E17**12
CNPV*4217AL*	0.84	0.90	1.02	1.09	59*P2A040E17**12
CSPH*2412AL*	0.84	0.90	1.03	1.11	59*P2A040E17**12
CSPH*3012AL*	0.84	0.90	1.02	1.09	59*P2A040E17**12
CAP**2414AL*	0.84	0.91	1.05	1.10	59*P2A060E14**12
CAP**3014AL*	0.84	0.90	1.03	1.07	59*P2A060E14**12
CAP**3614AL*	0.84	0.89	1.02	1.05	59*P2A060E14**12
CNPV*3014AL*	0.84	0.88	1.03	1.07	59*P2A060E14**12
CNPV*4214AL*	0.84	0.88	1.03	1.07	59*P2A060E14**12
CSPH*2412AL*	0.84	0.89	1.04	1.09	59*P2A060E14**12
CSPH*3012AL*	0.84	0.87	1.04	1.06	59*P2A060E14**12
CSPH*3612AL*	0.84	0.87	1.02	1.03	59*P2A060E14**12
CAP**2414AL*	0.84	0.92	1.05	1.16	59*P5A040E14**10
CAP**3014AL*	0.84	0.92	1.02	1.12	59*P5A040E14**10
CAP**3614AL*	0.84	0.92	1.02	1.11	59*P5A040E14**10
CNPV*3014AL*	0.84	0.93	1.02	1.12	59*P5A040E14**10
CNPV*4214AL*	0.84	0.91	1.04	1.15	59*P5A040E14**10
CSPH*2412AL*	0.84	0.89	1.04	1.13	59*P5A040E14**10
CSPH*3012AL*	0.84	0.89	1.02	1.10	59*P5A040E14**10
CSPH*3612AL*	0.84	0.89	1.05	1.15	59*P5A040E17**12
CAP**2417AL*	0.84	0.94	1.02	1.11	59*P5A040E17**12
CAP**3017AL*	0.84	0.93	1.02	1.10	59*P5A040E17**12
CAP**3617AL*	0.84	0.93	1.02	1.11	59*P5A040E17**12
CNPV*3017AL*	0.84	0.95	1.02	1.11	59*P5A040E17**12
CNPV*3617AL*	0.84	0.95	1.02	1.11	59*P5A040E17**12
CNPV*4217AL*	0.84	0.92	1.02	1.09	59*P5A040E17**12
CSPH*2412AL*	0.84	0.94	1.04	1.15	59*P5A040E17**12
CSPH*3012AL*	0.84	0.92	1.04	1.12	59*P5A040E17**12
CSPH*3612AL*	0.84	0.92	1.02	1.09	59*P5A040E17**12

See notes on page 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE

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†	
STAGE 5																
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		15.80	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				
STAGE 3																
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		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				
STAGE 1																
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
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)														
		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	21.73	19.77	1.82	825	24.94	24.94	1.89	825	16.71	16.71	1.01	825	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				
STAGE 3																
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				
STAGE 1																
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 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA824B

HEATING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL
*FE4ANF002L	1.00	1.00		
FE4AN(B,F)003L	0.99	0.99		
CAP**3614AL*	1.00	1.01	58CV(A,X)070-12	
CAP**3617AL*	1.01	1.03	59*N*A060V17**14	
CAP**3617AL*	1.00	1.01	59*N*A080V17**14	
CAP**3617AL*	1.00	1.01	58CV(A,X)070-12	
CAP**3617AL*	1.00	1.00	58CV(A,X)090-16	
CAP**3621AL*	1.01	1.03	59*N*A060V17**14	
CAP**3621AL*	1.00	1.01	59*N*A080V17**14	
CAP**3621AL*	1.00	1.01	59MN7A060V21**20	
CAP**3621AL*	1.00	1.00	59*N*A080V21**20	
CAP**3621AL*	1.00	1.00	59*N*A100V21**22	
CAP**4221AL*	1.00	1.01	59*N*A060V17**14	
CAP**4221AL*	1.00	1.01	59*N*A080V17**14	
CAP**4221AL*	1.00	1.01	59MN7A060V21**20	
CAP**4221AL*	0.99	0.98	58CV(A,X)090-16	
CAP**4224AL*	1.00	1.01	59*N*A060V17**14	
CAP**4224AL*	0.97	0.97	59*N*A080V17**14	
CAP**4817AL*	0.97	0.97	59*N*A060V17**14	
CAP**4817AL*	0.96	0.95	58CV(A,X)070-12	
CAP**4821AL*	0.98	0.98	59*N*A060V17**14	
CAP**4821AL*	0.98	0.98	59*N*A080V17**14	
CAP**4821AL*	0.97	0.95	58CV(A,X)090-16	
CNPV*3617AL*	1.01	1.04	59*N*A060V17**14	
CNPV*3617AL*	1.01	1.03	59*N*A080V17**14	
CNPV*3621AL*	0.94	0.97	59*N*A060V17**14	
CNPV*3621AL*	1.01	1.03	59*N*A080V17**14	
CNPV*4217AL*	1.00	1.01	59*N*A060V17**14	
CNPV*4217AL*	1.00	1.00	59*N*A080V17**14	
CNPV*4217AL*	0.99	0.98	58CV(A,X)070-12	
CNPV*4217AL*	0.99	0.97	58CV(A,X)090-16	
CNPV*4221AL*	1.01	1.02	59*N*A060V17**14	
CNPV*4221AL*	1.00	1.01	59*N*A080V17**14	
CNPV*4221AL*	1.00	0.99	58CV(A,X)090-16	
CNPV*4821AL*	0.99	0.99	59*N*A060V17**14	
CNPV*4821AL*	0.99	0.98	59*N*A080V17**14	
CSPH*3612AL*	1.00	1.01	59*N*A060V17**14	
CSPH*3612AL*	1.00	0.98	58CV(A,X)070-12	
CSPH*3612AL*	0.99	0.98	58CV(A,X)090-16	
CSPH*4212AL*	0.99	0.99	59*N*A060V17**14	
CSPH*4212AL*	0.99	0.98	59*N*A080V17**14	
CSPH*4212AL*	0.98	0.96	58CV(A,X)090-16	
CSPH*4812AL*	0.99	0.99	59*N*A060V17**14	
CSPH*4812AL*	0.98	0.97	59*N*A080V17**14	

2-STAGE (HI-Stage 5, Lo-Stage 3)				
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Furnace Model
*FV4CNF002L	1.00	1.00	1.00	
FV4CN(B,F)003L	0.96	1.03	0.98	
FV4CNF002L	0.98	1.04	0.99	
CAP**2414AL*	1.01	1.09	1.01	59*P2A040E14**10
CAP**2414AL*	1.01	1.06	1.01	59*P2A060E14**12
CAP**2414AL*	1.02	1.09	1.01	59*P5A040E14**10
CAP**2414AL*	1.01	1.08	1.01	58PH*045-08
CAP**2417AL*	1.01	1.09	1.01	59*P2A040E17**12
CAP**2417AL*	1.00	1.10	1.01	59*P5A040E17**12
CAP**3014AL*	0.99	1.08	0.99	59*P2A040E14**10
CAP**3014AL*	0.99	1.04	1.00	59*P2A060E14**12
CAP**3014AL*	1.00	1.07	1.00	59*P5A040E14**10
CAP**3014AL*	0.99	1.06	1.00	58PH*045-08
CAP**3017AL*	0.99	1.07	0.99	59*P2A040E17**12
CAP**3017AL*	0.98	1.08	0.99	59*P5A040E17**12
CAP**3614AL*	0.98	1.06	0.99	59*P2A040E14**10
CAP**3614AL*	0.99	1.04	1.00	59*P2A060E14**12
CAP**3614AL*	1.00	1.07	0.99	59*P5A040E14**10
CAP**3614AL*	0.99	1.05	1.00	58PH*045-08
CAP**3617AL*	0.98	1.08	0.99	59*P2A040E17**12
CAP**3617AL*	0.98	1.06	0.99	59*P5A040E17**12
CNPV*3014AL*	1.00	1.02	1.00	59*P2A040E14**10
CNPV*3014AL*	1.00	1.08	0.99	59*P2A060E14**12
CNPV*3017AL*	0.99	1.08	0.99	59*P5A040E14**10
CNPV*3017AL*	0.98	1.09	0.99	59*P2A040E17**12
CNPV*3617AL*	0.99	1.08	0.99	59*P2A040E17**12
CNPV*4217AL*	0.98	1.04	0.99	59*P2A040E17**12
CNPV*4217AL*	0.98	1.07	0.99	59*P5A040E17**12
CSPH*2412AL*	1.00	1.08	1.00	59*P2A040E14**10
CSPH*2412AL*	1.00	1.06	1.00	59*P2A060E14**12
CSPH*2412AL*	1.00	1.05	1.01	59*P5A040E14**10
CSPH*2412AL*	1.02	1.07	1.00	58PH*045-08
CSPH*3012AL*	1.00	1.06	1.00	59*P2A040E14**10
CSPH*3012AL*	1.00	1.06	1.00	59*P2A060E14**12
CSPH*3012AL*	1.01	1.05	1.00	59*P5A040E14**10
CSPH*3012AL*	0.99	1.08	1.00	59*P2A040E17**12
CSPH*3612AL*	1.00	1.04	1.00	58PH*045-08
CSPH*3612AL*	0.98	1.04	0.99	59*P2A040E14**10
CSPH*3612AL*	0.98	1.04	0.99	59*P2A060E14**12
CSPH*3612AL*	0.99	1.01	1.00	59*P5A040E14**10
CSPH*3612AL*	1.00	1.04	0.99	59*P2A040E17**12
CSPH*3612AL*	0.98	1.06	0.99	59*P5A040E17**12
CSPH*3612AL*	0.98	1.02	0.99	58PH*045-08

See notes on page 60

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	650	19.19	19.19	1.28	650	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 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE - CONTINUED

25VNA825

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 3)					
				Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANI(B)F005L	1.00	1.00		FVACN(B)F003	1.01	1.09	1.01	1.00	
FE4ANIB(F)003	1.04	1.07		FV4CNF002L	1.03	1.09	1.01	1.05	
FE4ANF002L	1.08	1.10		CAP**2414AL*	1.05	1.14	1.05	1.10	56PH*045-08
CAP**3614AL*	1.07	1.11	56CV(A,X)070-12	CAP**3014AL*	1.03	1.12	1.03	1.07	56PH*045-08
CSPH*3612AL*	1.06	1.07	58CV(A,X)070-12	CAP**3614AL*	1.03	1.10	1.02	1.05	56PH*045-08
CSPH*4212AL*	1.05	1.05	58CV(A,X)070-12	CSPH*2412AL*	1.05	1.12	1.04	1.09	56PH*045-08
CAP**3617AL*	1.07	1.09	56CV(A,X)090-16	CSPH*3012AL*	1.05	1.09	1.04	1.07	56PH*045-08
CNPV*3617AL*	1.07	1.10	56CV(A,X)090-16	CSPH*3612AL*	1.03	1.06	1.02	1.04	56PH*045-08
CNPV*4217AL*	1.06	1.06	58CV(A,X)090-16	CAP**2414AL*	1.05	1.15	1.05	1.13	59*P2A040E14**10
CSPH*3612AL*	1.06	1.06	58CV(A,X)090-16	CAP**3014AL*	1.03	1.13	1.02	1.09	59*P2A040E14**10
CSPH*4212AL*	1.05	1.05	58CV(A,X)090-16	CAP**3614AL*	1.03	1.12	1.02	1.08	59*P2A040E14**10
CAP**3617AL*	1.07	1.11	59*N*A060V17**14	CNPV*3014AL*	1.05	1.11	1.02	1.09	59*P2A040E14**10
CNPV*3617AL*	1.08	1.13	59*N*A060V17**14	CSPH*2412AL*	1.05	1.13	1.04	1.11	59*P2A040E14**10
CNPV*4217AL*	1.07	1.09	59*N*A060V17**14	CSPH*3012AL*	1.04	1.10	1.04	1.09	59*P2A040E14**10
CSPH*3612AL*	1.07	1.07	59*N*A060V17**14	CSPH*3612AL*	1.03	1.08	1.02	1.06	59*P2A040E14**10
CSPH*4212AL*	1.06	1.07	59*N*A060V17**14	CAP**2417AL*	1.05	1.14	1.05	1.13	59*P2A040E17**12
CAP**3621AL*	1.08	1.12	59*N*A080V17**14	CNPV*3017AL*	1.03	1.14	1.02	1.09	59*P2A040E17**12
CNPV*3621AL*	1.07	1.08	59*N*A080V17**14	CNPV*4217AL*	1.03	1.09	1.02	1.06	59*P2A040E17**12
CNPV*4217AL*	1.07	1.08	59*N*A080V17**14	CSPH*2412AL*	1.05	1.14	1.04	1.13	59*P2A040E17**12
CSPH*3612AL*	1.06	1.07	59*N*A080V17**14	CSPH*3012AL*	1.04	1.10	1.03	1.09	59*P2A040E17**12
CSPH*4212AL*	1.07	1.11	59MN7A060V21**20	CAP**2414AL*	1.05	1.12	1.05	1.08	59*P2A060E14**12
CAP**3621AL*	1.08	1.11	59MN7A060V21**20	CAP**3014AL*	1.03	1.10	1.03	1.05	59*P2A060E14**12
CNPV*3621AL*	1.08	1.12	59MN7A060V21**20	CNPV*3014AL*	1.03	1.09	1.02	1.03	59*P2A060E14**12
CNPV*4221AL*	1.07	1.10	59MN7A060V21**20	CNPV*4217AL*	1.03	1.14	1.02	1.11	59*P5A040E14**10
CSPH*3612AL*	1.07	1.06	59MN7A060V21**20	CAP**3614AL*	1.04	1.12	1.02	1.09	59*P5A040E14**10
CSPH*4212AL*	1.06	1.07	59MN7A060V21**20	CNPV*3014AL*	1.05	1.14	1.02	1.11	59*P5A040E14**10
	1.06	1.07		CSPH*2412AL*	1.06	1.13	1.04	1.13	59*P5A040E14**10
				CSPH*3012AL*	1.05	1.10	1.04	1.11	59*P5A040E14**10
				CSPH*3612AL*	1.04	1.09	1.02	1.08	59*P5A040E14**10
				CAP**2417AL*	1.05	1.17	1.05	1.13	59*P5A040E17**12
				CAP**3017AL*	1.03	1.14	1.02	1.09	59*P5A040E17**12
				CAP**3617AL*	1.03	1.14	1.02	1.08	59*P5A040E17**12
				CNPV*3017AL*	1.03	1.16	1.02	1.09	59*P5A040E17**12
				CNPV*3617AL*	1.03	1.16	1.02	1.09	59*P5A040E17**12
				CNPV*4217AL*	1.03	1.12	1.02	1.07	59*P5A040E17**12
				CSPH*2412AL*	1.05	1.16	1.04	1.13	59*P5A040E17**12
				CSPH*3012AL*	1.04	1.13	1.04	1.10	59*P5A040E17**12
				CSPH*3612AL*	1.03	1.11	1.02	1.07	59*P5A040E17**12

See notes on page 60

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 60

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 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE - CONTINUED

25VNA848

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4ANB006	0.99	0.95	
CAP**4817AL*	1.04	1.03	58CV(A,X)090-16
CSPH*4812AL*	1.05	1.04	58CV(A,X)090-16
CSPH*6012AL*	1.03	1.01	58CV(A,X)090-16
CAP**4821AL*	1.04	1.03	58CV(A,X)110-20
CAP**6021AL*	1.02	1.02	58CV(A,X)110-20
CNPV*4821AL*	1.05	1.04	58CV(A,X)110-20
CSPH*4812AL*	1.05	1.04	58CV(A,X)110-20
CSPH*6012AL*	1.03	1.00	58CV(A,X)135-22
CAP**4824AL*	1.03	1.01	58CV(A,X)135-22
CAP**6024AL*	1.01	1.00	58CV(A,X)135-22
CNPV*4824AL*	1.04	1.03	58CV(A,X)135-22
CNPV*6024AL*	1.03	1.01	58CV(A,X)135-22
CSPH*4812AL*	1.03	1.01	58CV(A,X)135-22
CSPH*6012AL*	1.02	0.99	58CV(A,X)135-22
CAP**4824AL*	1.03	1.01	58CV(A,X)155-22
CNPV*4824AL*	1.04	1.02	58CV(A,X)155-22
CNPV*6024AL*	1.03	1.01	58CV(A,X)155-22
CSPH*4812AL*	1.04	1.01	58CV(A,X)155-22
CSPH*6012AL*	1.02	0.98	58CV(A,X)155-22
CAP**4821AL*	1.04	1.05	59*N*A080V21**20
CAP**6021AL*	1.02	1.03	59*N*A080V21**20
CNPV*4821AL*	1.05	1.06	59*N*A080V21**20
CSPH*4812AL*	1.05	1.06	59*N*A080V21**20
CSPH*6012AL*	1.03	1.01	59*N*A080V21**20
CAP**4821AL*	1.04	1.04	59*N*A100V21**22
CAP**6021AL*	1.05	1.04	59*N*A100V21**22
CNPV*4821AL*	1.05	1.04	59*N*A100V21**22
CSPH*4812AL*	1.05	1.04	59*N*A100V21**22
CSPH*6012AL*	1.03	1.01	59*N*A100V21**22
CAP**4824AL*	1.04	1.04	59*N*A120V24**22
CAP**6024AL*	1.02	1.02	59*N*A120V24**22
CNPV*4824AL*	1.05	1.05	59*N*A120V24**22
CSPH*4812AL*	1.03	1.03	59*N*A120V24**22
CSPH*6012AL*	1.05	1.04	59*N*A120V24**22
CAP**4821AL*	1.03	1.01	59*N*A120V24**22
CAP**6021AL*	1.03	1.01	59MN7A060V21**20
CNPV*4821AL*	1.06	1.08	59MN7A060V21**20
CNPV*6021AL*	1.06	1.07	59MN7A060V21**20
CSPH*4812AL*	1.06	1.08	59MN7A060V21**20
CSPH*6012AL*	1.06	1.08	59MN7A060V21**20
CAP**4812AL*	1.04	1.05	59MN7A060V21**20
CSPH*6012AL*	1.04	1.05	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 3)						
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
*FV4CN(B,F)005L	1.00	1.00	1.00	1.00		
FV4CNB006	1.00	0.99	0.98	0.95		
CAP**4817AL*	1.06	1.10	1.02	1.06	58PH*070-16	
CSPH*4812AL*	1.07	1.10	1.03	1.07	58PH*070-16	
CSPH*6012AL*	1.06	1.08	1.01	1.04	58PH*070-16	
CAP**4821AL*	1.05	1.07	1.01	1.03	58PH*090-16	
CAP**6021AL*	1.03	1.04	0.99	1.00	58PH*090-16	
CNPV*4821AL*	1.06	1.07	1.02	1.03	58PH*110-20	
CSPH*4812AL*	1.06	1.06	1.02	1.03	58PH*110-20	
CSPH*6012AL*	1.04	1.02	1.01	1.00	58PH*110-20	
CAP**4817AL*	1.05	1.07	1.01	1.04	58CTW070-16	
CSPH*4812AL*	1.06	1.08	1.02	1.05	58CTW070-16	
CSPH*6012AL*	1.05	1.05	1.01	1.02	58CTW070-16	
CAP**4821AL*	1.05	1.07	1.01	1.04	58CTW090-16	
CAP**6021AL*	1.03	1.04	0.99	1.00	58CTW090-16	
CNPV*4821AL*	1.06	1.07	1.02	1.03	58CTW090-16	
CSPH*4812AL*	1.06	1.06	1.02	1.03	58CTW090-16	
CSPH*6012AL*	1.04	1.03	1.00	1.00	58CTW090-16	
CAP**4821AL*	1.04	1.05	1.01	1.02	58CTW110-22	
CNPV*4821AL*	1.06	1.06	1.02	1.02	58CTW110-22	
CSPH*4812AL*	1.06	1.05	1.02	1.02	58CTW110-22	
CSPH*6012AL*	1.04	1.02	1.00	0.99	58CTW110-22	
CAP**4824AL*	1.04	1.05	1.01	1.02	58CTW135-22	
CAP**6024AL*	1.03	1.03	0.99	0.99	58CTW135-22	
CNPV*4824AL*	1.05	1.05	1.02	1.03	58CTW135-22	
CNPV*6024AL*	1.04	1.03	1.00	1.00	58CTW135-22	
CSPH*4812AL*	1.05	1.04	1.02	1.03	58CTW135-22	
CSPH*6012AL*	1.04	1.02	1.00	0.99	58CTW135-22	
CAP**4817AL*	1.05	1.07	1.01	1.03	59*P2A080E17**16	
CSPH*4812AL*	1.06	1.07	1.02	1.05	59*P2A080E17**16	
CSPH*6012AL*	1.05	1.05	1.01	1.01	59*P2A080E17**16	
CAP**4821AL*	1.05	1.06	1.01	1.01	59*P2A080E21**20	
CAP**6021AL*	1.04	1.04	0.99	1.00	59*P2A080E21**20	
CNPV*4821AL*	1.06	1.06	1.02	1.04	59*P2A080E21**20	
CSPH*4812AL*	1.06	1.06	1.02	1.04	59*P2A080E21**20	
CSPH*6012AL*	1.06	1.05	1.02	1.04	59*P2A080E21**20	
CAP**4824AL*	1.05	1.03	1.01	1.00	59*P2A080E21**20	
CAP**6024AL*	1.05	1.06	1.01	1.04	59*P2A100E21**20	
CNPV*4824AL*	1.05	1.03	1.01	1.04	59*P2A100E21**20	
CNPV*6024AL*	1.04	1.04	0.99	1.00	59*P2A100E21**20	
CSPH*4821AL*	1.06	1.06	1.02	1.04	59*P2A100E21**20	
CSPH*4812AL*	1.06	1.05	1.02	1.04	59*P2A100E21**20	
CSPH*6012AL*	1.05	1.03	1.01	1.01	59*P2A100E21**20	
CAP**4824AL*	1.05	1.06	1.01	1.03	59*P2A120E24**20	
CAP**6024AL*	1.04	1.04	1.00	1.01	59*P2A120E24**20	
CNPV*4824AL*	1.06	1.06	1.02	1.04	59*P2A120E24**20	
CNPV*6024AL*	1.05	1.04	1.01	1.01	59*P2A120E24**20	
CSPH*4812AL*	1.06	1.06	1.02	1.04	59*P2A120E24**20	

2-STAGE (Hi-Stage 5, Lo-Stage 3)						
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
CSPH*6012AL*	1.05	1.03	1.01	1.01	59*P2A120E24**20	
CAP**4817AL*	1.05	1.08	1.01	1.05	59*P5A080E17**16	
CSPH*4812AL*	1.06	1.09	1.02	1.07	59*P5A080E17**16	
CSPH*6012AL*	1.05	1.07	1.01	1.04	59*P5A080E17**16	
CAP**4821AL*	1.05	1.08	1.02	1.04	59*P5A100E21**20	
CAP**6021AL*	1.03	1.05	1.00	1.01	59*P5A100E21**20	
CNPV*4821AL*	1.06	1.07	1.03	1.04	59*P5A100E21**20	
CSPH*4812AL*	1.06	1.07	1.03	1.04	59*P5A100E21**20	

See notes on page 60

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	1600	56.12	49.84	7.10
70 (21.1)		29.47	27.09	4.22		49.06	44.73	7.02		49.80	45.40	7.61		56.61	50.28	7.63
75 (23.3)		29.57	27.17	4.47		49.80	45.40	7.61		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	1275	28.08	24.94	2.44
70 (21.1)		20.30	18.66	2.58		23.86	21.75	2.51		23.67	21.58	2.64		27.78	24.68	2.56
75 (23.3)		20.25	18.60	2.73		23.67	21.58	2.64		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	1275	20.88	18.55	1.56
70 (21.1)		20.31	18.66	2.58		23.85	21.75	2.51		20.88	18.55	1.56		20.60	18.30	1.65
75 (23.3)		20.27	18.62	2.73		23.66	21.57	2.64		20.60	18.30	1.65		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	43.06	43.06	2.72
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	1400	43.06	43.06	2.72
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	900	18.97	18.97	1.06
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 60

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA860

HEATING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 3)					
Heating Indoor Model	High Speed Cap.	Power	Furnace Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model		
*FE4ANB006L	1.00	1.00			1.00	1.00	1.00			
CAP**6021AL*	1.00	1.03	56CV(A.X)110-20	1.00	1.00	1.00	1.00	59*P2A080E21**20		
CAP**6024AL*	1.00	1.03	56CV(A.X)110-20	1.00	1.03	1.02	1.07	59*P2A100E21**20		
CNPV*6024AL*	1.00	1.03	56CV(A.X)110-20	1.00	1.03	1.02	1.07	59*P2A100E21**20		
CSPH*6012AL*	1.00	1.01	56CV(A.X)110-20	1.00	1.03	1.02	1.06	58PH*110-20		
CAP**6024AL*	1.00	1.02	56CV(A.X)135-22	1.00	1.03	1.02	1.07	58CTW110-22		
CNPV*6024AL*	1.00	1.02	56CV(A.X)135-22	1.00	1.03	1.02	1.07	59*P2A120E24**20		
CSPH*6012AL*	1.00	1.01	56CV(A.X)135-22	1.00	1.03	1.02	1.07	58CTW135-22		
CAP**6024AL*	1.00	1.01	56CV(A.X)155-22	1.00	1.04	1.04	1.10	59*P2A120E24**20		
CNPV*6024AL*	1.00	1.02	56CV(A.X)155-22	1.00	1.04	1.04	1.10	58PH*135-20		
CSPH*6012AL*	1.00	1.01	56CV(A.X)155-22	1.00	1.03	1.04	1.09	58CTW135-22		
CAP**6021AL*	1.00	1.03	59*N*A080V21**20	1.00	1.04	1.04	1.10	OVLAA060154		
CAP**6024AL*	1.00	1.03	59*N*A080V21**20	1.00	1.01	1.04	1.06	58PH*110-20		
CNPV*6024AL*	1.00	1.03	59*N*A080V21**20	1.00	1.01	1.04	1.07	58PH*135-20		
CSPH*6012AL*	1.00	1.01	59*N*A080V21**20	1.00	1.01	1.04	1.07	58CTW110-22		
CAP**6021AL*	1.00	1.03	59*N*A100V21**22	1.00	1.01	1.04	1.07	58CTW110-22		
CNPV*6024AL*	1.00	1.03	59*N*A100V21**22	1.00	1.01	1.04	1.07	58CTW135-22		
CSPH*6012AL*	1.00	1.01	59*N*A100V21**22	1.00	1.01	1.04	1.07	58CTW135-22		
CAP**6024AL*	1.00	1.03	59*N*A120V24**22	1.00	1.03	1.04	1.09	58CTW135-22		
CNPV*6024AL*	1.00	1.03	59*N*A120V24**22	1.00	1.03	1.04	1.09	58CTW135-22		
CSPH*6012AL*	1.00	1.01	59*N*A120V24**22	1.00	1.04	1.04	1.10	OVLAA060154		
CAP**6021AL*	1.00	1.04	59MN7A060V21**20	1.00	1.01	1.04	1.06	58PH*110-20		
CNPV*6024AL*	1.00	1.04	59MN7A060V21**20	1.00	1.01	1.04	1.07	58PH*135-20		
CSPH*6012AL*	1.00	1.04	59MN7A060V21**20	1.00	1.01	1.04	1.07	58CTW110-22		
CAP**6024AL*	1.00	1.03	59MN7A060V21**20	1.00	1.01	1.04	1.07	58CTW135-22		
CNPV*6024AL*	1.00	1.03	59MN7A060V21**20	1.00	1.01	1.04	1.07	58CTW135-22		
CSPH*6012AL*	1.00	1.03	59MN7A060V21**20	1.00	1.01	1.04	1.07	58CTW135-22		

See notes on page 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE

INDOOR AIR		25VNA824A / 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)		13.78	12.67	1.99		19.53	17.81	2.40		21.30	18.92	2.18				
70 (21.1)	407	13.74	12.62	2.08	523	19.93	17.62	2.49		21.06	18.71	2.28	622			
75 (23.3)		13.59	12.49	1.16		19.12	17.43	2.59		20.83	18.50	2.38				
STAGE 3																
65 (18.3)		9.32	8.56	1.43		11.03	10.06	1.45		12.77	11.34	1.35				
70 (21.1)	338	9.20	8.46	1.48	384	10.89	9.93	1.51		12.57	11.17	1.41	449			
75 (23.3)		9.08	8.35	1.54		10.74	9.79	1.58		12.38	10.99	1.48				
STAGE 1 - FE4ANF005 ONLY																
65 (18.3)		6.77	6.22	1.21		8.49	7.74	1.27		7.40	6.57	0.83				
70 (21.1)	338	6.68	6.14	1.26	409	8.38	7.64	1.32		7.27	6.45	0.87	418			
75 (23.3)		6.60	6.06	1.31		8.27	7.54	1.37		7.14	6.34	0.92				
STAGE 1 - ALL OTHER INDOOR COILS																
65 (18.3)		9.32	8.56	1.43		11.08	10.10	1.42		8.28	7.35	0.89				
70 (21.1)	338	9.20	8.45	1.48	409	10.94	9.97	1.48		8.14	7.23	0.91	418			
75 (23.3)		9.08	8.35	1.54		10.80	9.84	1.54		7.99	7.10	0.95				
25VNA824A / FE4ANF005 Heating Comfort 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
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)		23.60	21.47	2.09		25.55	25.55	1.98		17.84	17.84	1.24				
70 (21.1)	720	23.29	21.20	2.19	819	25.12	25.12	2.07		17.51	17.51	1.31	605			
75 (23.3)		23.99	20.92	2.28		24.77	24.77	2.16		17.19	17.19	1.38				
STAGE 3																
65 (18.3)		14.76	13.43	1.34		16.82	16.82	1.30		18.91	18.91	1.31				
70 (21.1)	514	14.55	13.24	1.41	579	16.55	16.55	1.37		18.59	18.59	1.38	605			
75 (23.3)		14.34	13.05	1.48		16.26	16.26	1.44		18.23	18.23	1.46				
STAGE 1 - FE4ANF005 ONLY																
65 (18.3)		8.96	8.15	0.88		6.73	6.73	0.61		8.01	8.01	0.62				
70 (21.1)	426	8.78	7.99	0.93	250	6.54	6.54	0.64		7.82	7.82	0.67	250			
75 (23.3)		8.61	7.83	0.98		6.37	6.37	0.68		7.61	7.61	0.71				
STAGE 1 - ALL OTHER INDOOR COILS																
65 (18.3)		9.74	8.86	0.89		6.67	6.67	0.61		8.01	8.01	0.62				
70 (21.1)	426	9.58	8.71	0.94	243	6.50	6.50	0.65		7.81	7.81	0.67	261			
75 (23.3)		9.38	8.54	0.99		6.32	6.32	0.69		7.60	7.60	0.71				

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 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA824A

HEATING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	
*FE4ANI(B,F)005L		1.00	1.00		
FE4ANIB(F)003		1.00	1.02		
FE4ANF002L		1.04	1.06		
CAP**3614AL*		1.03	1.06	58CV(A,X)070-12	
CSPH*3612AL*		1.02	1.02	58CV(A,X)070-12	
CSPH*4212AL*		1.01	1.01	58CV(A,X)070-12	
CAP**3617AL*		1.02	1.05	58CV(A,X)090-16	
CNPV*3617AL*		1.03	1.06	58CV(A,X)090-16	
CNPV*4217AL*		1.02	1.02	58CV(A,X)090-16	
CSPH*3612AL*		1.02	1.02	58CV(A,X)090-16	
CSPH*4212AL*		1.01	1.00	58CV(A,X)090-16	
CAP**3617AL*		1.03	1.07	59*N*A060V17**14	
CNPV*3617AL*		1.04	1.08	59*N*A060V17**14	
CNPV*4217AL*		1.02	1.04	59*N*A060V17**14	
CSPH*3612AL*		1.02	1.04	59*N*A060V17**14	
CSPH*4212AL*		1.02	1.03	59*N*A060V17**14	
CAP**3617AL*		1.03	1.06	59*N*A080V17**14	
CNPV*3617AL*		1.04	1.08	59*N*A080V17**14	
CNPV*4217AL*		1.02	1.04	59*N*A080V17**14	
CSPH*3612AL*		1.02	1.04	59*N*A080V17**14	
CSPH*4212AL*		1.02	1.02	59*N*A080V17**20	
CAP**3621AL*		1.03	1.06	59MN7A060V21**20	
CNPV*3621AL*		1.04	1.08	59MN7A060V21**20	
CNPV*4221AL*		1.03	1.06	59MN7A060V21**20	
CSPH*3612AL*		1.02	1.04	59MN7A060V21**20	
CSPH*4212AL*		1.02	1.02	59MN7A060V21**20	

2-STAGE (Hi-Stage 5, Lo-Stage 3)		High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
FVACN(B,F)003		0.84	0.92	0.77	0.82	
FV4CNF002L		0.84	0.90	0.77	0.81	
CAP**2414AL*		0.84	0.92	1.05	1.12	56PH*045-08
CAP**3014AL*		0.84	0.92	1.03	1.09	56PH*045-08
CAP**3614AL*		0.84	0.91	1.02	1.07	56PH*045-08
CSPH*2412AL*		0.84	0.91	1.04	1.11	56PH*045-08
CSPH*3012AL*		0.84	0.88	1.04	1.08	56PH*045-08
CSPH*3612AL*		0.84	0.88	1.02	1.05	56PH*045-08
CAP**2414AL*		0.84	0.93	1.05	1.15	59*P2A040E14**10
CAP**3014AL*		0.84	0.93	1.02	1.11	59*P2A040E14**10
CAP**3614AL*		0.84	0.92	1.02	1.10	59*P2A040E14**10
CNPV*3014AL*		0.84	0.90	1.02	1.11	59*P2A040E14**10
CSPH*2412AL*		0.84	0.92	1.04	1.13	59*P2A040E14**10
CSPH*3012AL*		0.84	0.90	1.04	1.11	59*P2A040E14**10
CSPH*3612AL*		0.84	0.89	1.02	1.08	59*P2A040E14**10
CAP**2417AL*		0.84	0.92	1.05	1.14	59*P2A040E17**12
CAP**3017AL*		0.84	0.92	1.02	1.11	59*P2A040E17**12
CAP**3617AL*		0.84	0.92	1.02	1.10	59*P2A040E17**12
CNPV*3017AL*		0.84	0.93	1.02	1.11	59*P2A040E17**12
CNPV*3617AL*		0.84	0.90	1.02	1.09	59*P2A040E17**12
CNPV*4217AL*		0.84	0.92	1.04	1.15	59*P2A040E17**12
CSPH*2412AL*		0.84	0.90	1.03	1.11	59*P2A040E17**12
CSPH*3012AL*		0.84	0.90	1.02	1.09	59*P2A040E17**12
CSPH*3612AL*		0.84	0.91	1.05	1.10	59*P2A060E14**12
CAP**2414AL*		0.84	0.90	1.03	1.07	59*P2A060E14**12
CAP**3014AL*		0.84	0.89	1.02	1.05	59*P2A060E14**12
CNPV*3014AL*		0.84	0.88	1.03	1.07	59*P2A060E14**12
CNPV*3614AL*		0.84	0.88	1.03	1.07	59*P2A060E14**12
CNPV*4214AL*		0.84	0.89	1.02	1.11	59*P5A040E14**10
CSPH*2412AL*		0.84	0.89	1.04	1.09	59*P5A040E14**10
CSPH*3012AL*		0.84	0.87	1.04	1.06	59*P5A040E14**10
CSPH*3612AL*		0.84	0.87	1.02	1.03	59*P5A040E14**10
CAP**2414AL*		0.84	0.92	1.05	1.16	59*P5A040E14**10
CAP**3014AL*		0.84	0.92	1.02	1.12	59*P5A040E14**10
CAP**3614AL*		0.84	0.92	1.02	1.11	59*P5A040E14**10
CNPV*3014AL*		0.84	0.93	1.02	1.12	59*P5A040E14**10
CNPV*3614AL*		0.84	0.91	1.04	1.15	59*P5A040E14**10
CNPV*4214AL*		0.84	0.89	1.04	1.13	59*P5A040E14**10
CSPH*2412AL*		0.84	0.89	1.02	1.10	59*P5A040E14**10
CSPH*3012AL*		0.84	0.89	1.02	1.10	59*P5A040E14**10
CSPH*3612AL*		0.84	0.89	1.02	1.10	59*P5A040E14**10
CAP**2417AL*		0.84	0.95	1.05	1.15	59*P5A040E17**12
CAP**3017AL*		0.84	0.94	1.02	1.11	59*P5A040E17**12
CAP**3617AL*		0.84	0.93	1.02	1.10	59*P5A040E17**12
CNPV*3017AL*		0.84	0.95	1.02	1.11	59*P5A040E17**12
CNPV*3617AL*		0.84	0.95	1.02	1.11	59*P5A040E17**12
CNPV*4217AL*		0.84	0.92	1.02	1.09	59*P5A040E17**12
CSPH*2412AL*		0.84	0.94	1.04	1.15	59*P5A040E17**12
CSPH*3012AL*		0.84	0.92	1.04	1.12	59*P5A040E17**12
CSPH*3612AL*		0.84	0.92	1.02	1.09	59*P5A040E17**12

See notes on page 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE

INDOOR AIR		7 (-13.9)				17 (-8.3)				27 (-2.8)			
		ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt
EDB °F (°C)													
65 (18.3)		450	12.00	1.37	825	15.76	1.89	825	15.76	1.89	825	18.37	1.74
70 (21.1)			11.90	1.45		15.80	1.77		15.80	1.77		18.18	1.83
75 (23.3)			11.70	1.50		15.44	1.86		15.44	1.86		17.99	1.92
STAGE 5													
65 (18.3)		300	8.37	0.89	500	10.11	0.88	500	10.11	0.88	500	11.81	0.90
70 (21.1)			8.22	0.94		9.93	0.93		9.93	0.93		11.61	0.96
75 (23.3)			8.07	0.98		9.75	0.99		9.75	0.99		11.41	1.01
STAGE 1													
65 (18.3)		300	8.37	0.89	500	10.10	0.88	500	10.10	0.88	500	10.55	0.81
70 (21.1)			8.22	0.94		9.93	0.93		9.93	0.93		10.36	0.84
75 (23.3)			8.07	0.98		9.75	0.99		9.75	0.99		10.17	0.89

INDOOR AIR		37 (2.8)				47 (8.3)				57 (13.9)			
		ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt	ID SCFM	Capacity MBtuh Total	Total Sys. KWt
EDB °F (°C)													
65 (18.3)		825	21.73	1.82	825	24.94	1.89	825	24.94	1.89	825	16.71	1.01
70 (21.1)			21.46	1.92		24.60	1.99		24.60	1.99		16.37	1.08
75 (23.3)			21.18	2.02		24.26	2.10		24.26	2.10		16.03	1.16
STAGE 5													
65 (18.3)		650	13.45	0.95	650	15.09	0.99	650	15.09	0.99	650	16.71	1.01
70 (21.1)			13.21	1.01		14.83	1.06		14.83	1.06		16.38	1.09
75 (23.3)			12.98	1.07		14.56	1.13		14.56	1.13		16.07	1.16
STAGE 3													
65 (18.3)		650	11.91	0.81	585	7.42	0.37	585	7.42	0.37	585	7.98	0.37
70 (21.1)			11.62	0.87		7.20	0.42		7.20	0.42		7.74	0.42
75 (23.3)			11.38	0.93		6.99	0.46		6.99	0.46		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 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA824B

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4ANF002L	1.00	1.00	
FE4AN(B,F)003L	0.99	0.99	
CAP**3614AL*	1.00	1.01	58CV(A,X)070-12
CAP**3617AL*	1.01	1.03	59*N*A060V17**14
CAP**3617AL*	1.00	1.01	59*N*A080V17**14
CAP**3617AL*	1.00	1.01	58CV(A,X)070-12
CAP**3617AL*	1.00	1.00	58CV(A,X)090-16
CAP**3621AL*	1.01	1.03	59*N*A060V17**14
CAP**3621AL*	1.00	1.01	59*N*A080V17**14
CAP**3621AL*	1.00	1.01	59MN7A060V21**20
CAP**3621AL*	1.00	1.00	59*N*A080V21**20
CAP**3621AL*	1.00	1.00	59*N*A100V21**22
CAP**4221AL*	1.00	1.01	59*N*A060V17**14
CAP**4221AL*	1.00	1.01	59*N*A080V17**14
CAP**4221AL*	1.00	1.01	59MN7A060V21**20
CAP**4221AL*	0.99	0.98	58CV(A,X)090-16
CAP**4224AL*	1.00	1.01	59MN7A060V21**20
CAP**4817AL*	0.97	0.97	59*N*A060V17**14
CAP**4817AL*	0.97	0.97	59*N*A080V17**14
CAP**4817AL*	0.96	0.95	58CV(A,X)070-12
CAP**4821AL*	0.98	0.98	59*N*A060V17**14
CAP**4821AL*	0.98	0.98	59*N*A080V17**14
CAP**4821AL*	0.97	0.95	58CV(A,X)090-16
CNPV*3617AL*	1.01	1.04	59*N*A060V17**14
CNPV*3617AL*	1.01	1.03	59*N*A080V17**14
CNPV*3621AL*	0.94	0.97	59*N*A060V17**14
CNPV*3621AL*	1.01	1.03	59*N*A080V17**14
CNPV*4217AL*	1.00	1.01	59*N*A060V17**14
CNPV*4217AL*	1.00	1.00	59*N*A080V17**14
CNPV*4217AL*	0.99	0.98	58CV(A,X)070-12
CNPV*4217AL*	0.99	0.97	58CV(A,X)090-16
CNPV*4221AL*	1.01	1.02	59*N*A060V17**14
CNPV*4221AL*	1.00	1.01	59*N*A080V17**14
CNPV*4221AL*	1.00	0.99	58CV(A,X)090-16
CNPV*4821AL*	0.99	0.99	59*N*A060V17**14
CNPV*4821AL*	0.99	0.98	59*N*A080V17**14
CSPH*3612AL*	1.00	1.01	59*N*A060V17**14
CSPH*3612AL*	1.00	0.98	58CV(A,X)070-12
CSPH*3612AL*	0.99	0.98	58CV(A,X)090-16
CSPH*4212AL*	0.99	0.99	59*N*A060V17**14
CSPH*4212AL*	0.99	0.98	59*N*A080V17**14
CSPH*4212AL*	0.98	0.96	58CV(A,X)090-16
CSPH*4812AL*	0.99	0.99	59*N*A060V17**14
CSPH*4812AL*	0.98	0.97	59*N*A080V17**14

2-STAGE (HI-Stage 5, Lo-Stage 3)						
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
*FV4CNF002L	1.00	1.00	1.00	1.00		
FV4CN(B,F)003L	0.96	1.03	0.98	1.02		
FV4CNF002L	0.98	1.04	0.99	1.03		
CAP**2414AL*	1.01	1.09	1.01	1.09	59*P2A040E14**10	
CAP**2414AL*	1.01	1.06	1.01	1.05	59*P2A060E14**12	
CAP**2414AL*	1.02	1.09	1.01	1.11	59*P5A040E14**10	
CAP**2414AL*	1.01	1.08	1.01	1.06	58PH*045-08	
CAP**2417AL*	1.01	1.09	1.01	1.09	59*P2A040E17**12	
CAP**2417AL*	1.00	1.10	1.01	1.09	59*P5A040E17**12	
CAP**3014AL*	0.99	1.08	0.99	1.07	59*P2A040E14**10	
CAP**3014AL*	0.99	1.04	1.00	1.02	59*P2A060E14**12	
CAP**3014AL*	1.00	1.07	1.00	1.09	59*P5A040E14**10	
CAP**3014AL*	0.99	1.06	1.00	1.05	58PH*045-08	
CAP**3017AL*	0.99	1.07	0.99	1.06	59*P2A040E17**12	
CAP**3017AL*	0.98	1.08	0.99	1.07	59*P5A040E17**12	
CAP**3614AL*	0.98	1.06	0.99	1.06	59*P2A040E14**10	
CAP**3614AL*	0.99	1.04	1.00	1.01	59*P2A060E14**12	
CAP**3614AL*	1.00	1.07	0.99	1.08	59*P5A040E14**10	
CAP**3614AL*	0.99	1.05	1.00	1.04	58PH*045-08	
CAP**3617AL*	0.98	1.08	0.99	1.06	59*P2A040E17**12	
CAP**3617AL*	0.98	1.06	0.99	1.06	59*P5A040E17**12	
CNPV*3014AL*	1.00	1.02	1.00	1.02	59*P2A040E14**10	
CNPV*3014AL*	1.00	1.08	0.99	1.07	59*P5A040E14**10	
CNPV*3017AL*	0.99	1.08	0.99	1.08	59*P2A040E17**12	
CNPV*3017AL*	0.98	1.09	0.99	1.07	59*P5A040E17**12	
CNPV*3617AL*	0.99	1.08	0.99	1.07	59*P2A040E17**12	
CNPV*4217AL*	0.98	1.04	0.99	1.05	59*P2A040E17**12	
CNPV*4217AL*	0.98	1.07	0.99	1.06	59*P5A040E17**12	
CSPH*2412AL*	1.00	1.08	1.00	1.09	59*P2A040E14**10	
CSPH*2412AL*	1.00	1.06	1.00	1.09	59*P2A040E17**12	
CSPH*2412AL*	1.00	1.05	1.01	1.05	59*P2A060E14**12	
CSPH*2412AL*	1.02	1.07	1.00	1.10	59*P5A040E14**10	
CSPH*2412AL*	1.00	1.06	1.01	1.07	58PH*045-08	
CSPH*3012AL*	1.00	1.06	1.00	1.06	59*P2A040E14**10	
CSPH*3012AL*	1.00	1.06	1.00	1.07	59*P2A040E17**12	
CSPH*3012AL*	1.00	1.02	1.01	1.02	59*P2A060E14**12	
CSPH*3012AL*	1.01	1.05	1.00	1.08	59*P5A040E14**10	
CSPH*3012AL*	0.99	1.08	1.00	1.08	59*P5A040E17**12	
CSPH*3612AL*	1.00	1.04	1.00	1.04	58PH*045-08	
CSPH*3612AL*	0.98	1.04	0.99	1.05	59*P2A040E14**10	
CSPH*3612AL*	0.98	1.04	0.99	1.05	59*P2A040E17**12	
CSPH*3612AL*	0.99	1.01	1.00	1.00	59*P2A060E14**12	
CSPH*3612AL*	1.00	1.04	0.99	1.07	59*P5A040E14**10	
CSPH*3612AL*	0.98	1.06	0.99	1.06	59*P5A040E17**12	
CSPH*3612AL*	0.98	1.02	0.99	1.02	58PH*045-08	

See notes on page 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE

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†	
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				
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				
65 (18.3)	340	9.32	8.56	1.42	500	11.23	10.24	1.35	500	13.17	11.70	1.22	500	13.17	11.70	1.22
70 (21.1)		9.19	8.45	1.48		11.07	10.10	1.41		12.99	11.54	1.29				
75 (23.3)		9.07	8.34	1.53		10.87	9.91	1.47		12.82	11.39	1.35				

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†	
65 (18.3)	825	25.00	22.75	2.11	825	27.16	27.16	2.11	650	19.19	19.19	1.28	650	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				
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				
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 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA925

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 3)					
				Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FE4ANI(B)F005L	1.00	1.00		FVACN(B)F003	1.01	1.09	1.01	1.00	
FE4ANIB(F)003	1.04	1.07		FV4CNF002L	1.03	1.09	1.01	1.05	
FE4ANF002L	1.08	1.10		CAP**2414AL*	1.05	1.14	1.05	1.10	56PH*045-08
CAP**3614AL*	1.07	1.11	56CV(A,X)070-12	CAP**3014AL*	1.03	1.12	1.03	1.07	56PH*045-08
CSPH*3612AL*	1.06	1.07	56CV(A,X)070-12	CAP**3614AL*	1.03	1.10	1.02	1.05	56PH*045-08
CSPH*4212AL*	1.05	1.05	56CV(A,X)070-12	CSPH*2412AL*	1.05	1.12	1.04	1.09	56PH*045-08
CAP**3617AL*	1.07	1.09	56CV(A,X)090-16	CSPH*3012AL*	1.05	1.09	1.04	1.07	56PH*045-08
CNPV*3617AL*	1.07	1.10	56CV(A,X)090-16	CSPH*3612AL*	1.03	1.06	1.02	1.04	56PH*045-08
CNPV*4217AL*	1.06	1.06	56CV(A,X)090-16	CAP**2414AL*	1.05	1.15	1.05	1.13	59*P2A040E14**10
CSPH*3612AL*	1.06	1.06	56CV(A,X)090-16	CAP**3014AL*	1.03	1.13	1.02	1.09	59*P2A040E14**10
CSPH*4212AL*	1.05	1.05	56CV(A,X)090-16	CAP**3614AL*	1.03	1.12	1.02	1.08	59*P2A040E14**10
CAP**3617AL*	1.07	1.11	59*N*A060V17**14	CNPV*3014AL*	1.05	1.11	1.02	1.09	59*P2A040E14**10
CNPV*3617AL*	1.08	1.13	59*N*A060V17**14	CSPH*2412AL*	1.05	1.13	1.04	1.11	59*P2A040E14**10
CNPV*4217AL*	1.07	1.09	59*N*A060V17**14	CSPH*3012AL*	1.04	1.10	1.04	1.09	59*P2A040E14**10
CSPH*3612AL*	1.07	1.07	59*N*A060V17**14	CSPH*3612AL*	1.03	1.08	1.02	1.06	59*P2A040E14**10
CSPH*4212AL*	1.06	1.07	59*N*A060V17**14	CAP**2417AL*	1.05	1.14	1.05	1.13	59*P2A040E17**12
CAP**3621AL*	1.08	1.12	59*N*A080V17**14	CAP**3017AL*	1.03	1.12	1.02	1.09	59*P2A040E17**12
CNPV*3621AL*	1.07	1.08	59*N*A080V17**14	CAP**3617AL*	1.03	1.12	1.02	1.08	59*P2A040E17**12
CNPV*4221AL*	1.07	1.08	59*N*A080V17**14	CNPV*3017AL*	1.03	1.14	1.02	1.09	59*P2A040E17**12
CSPH*3612AL*	1.07	1.07	59*N*A080V17**14	CNPV*3617AL*	1.03	1.14	1.02	1.09	59*P2A040E17**12
CSPH*4212AL*	1.06	1.07	59*N*A080V17**14	CNPV*4217AL*	1.03	1.09	1.02	1.06	59*P2A040E17**12
				CSPH*2412AL*	1.05	1.14	1.04	1.13	59*P2A040E17**12
				CSPH*3012AL*	1.03	1.09	1.02	1.07	59*P2A040E17**12
				CAP**2414AL*	1.05	1.12	1.05	1.08	59*P2A060E14**12
				CAP**3014AL*	1.03	1.10	1.03	1.05	59*P2A060E14**12
				CAP**3614AL*	1.03	1.09	1.02	1.03	59*P2A060E14**12
				CNPV*3014AL*	1.05	1.08	1.03	1.05	59*P2A060E14**12
				CNPV*3614AL*	1.04	1.12	1.02	1.11	59*P5A040E14**10
				CNPV*4214AL*	1.04	1.12	1.02	1.09	59*P5A040E14**10
				CSPH*2412AL*	1.05	1.14	1.02	1.11	59*P5A040E14**10
				CSPH*3012AL*	1.06	1.13	1.04	1.13	59*P5A040E14**10
				CAP**2414AL*	1.07	1.16	1.05	1.14	59*P5A040E14**10
				CAP**3014AL*	1.05	1.14	1.02	1.11	59*P5A040E14**10
				CAP**3614AL*	1.04	1.12	1.02	1.09	59*P5A040E14**10
				CNPV*3014AL*	1.05	1.14	1.02	1.11	59*P5A040E14**10
				CNPV*3614AL*	1.05	1.14	1.02	1.11	59*P5A040E14**10
				CNPV*4214AL*	1.06	1.13	1.04	1.13	59*P5A040E14**10
				CSPH*2412AL*	1.05	1.10	1.04	1.11	59*P5A040E14**10
				CSPH*3612AL*	1.04	1.09	1.02	1.08	59*P5A040E14**10
				CAP**2417AL*	1.05	1.17	1.05	1.13	59*P5A040E17**12
				CAP**3017AL*	1.03	1.14	1.02	1.09	59*P5A040E17**12
				CAP**3617AL*	1.03	1.14	1.02	1.08	59*P5A040E17**12
				CNPV*3017AL*	1.03	1.16	1.02	1.09	59*P5A040E17**12
				CNPV*3617AL*	1.03	1.16	1.02	1.09	59*P5A040E17**12
				CNPV*4217AL*	1.03	1.16	1.02	1.07	59*P5A040E17**12
				CSPH*2412AL*	1.05	1.16	1.04	1.13	59*P5A040E17**12
				CSPH*3012AL*	1.04	1.13	1.04	1.10	59*P5A040E17**12
				CSPH*3612AL*	1.03	1.11	1.02	1.07	59*P5A040E17**12

See notes on page 60

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									
70 (21.1)		15.86	14.57	2.46		22.09	20.14	2.90		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									
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									
70 (21.1)		9.80	9.01	1.70		11.68	10.65	1.76		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									
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									
70 (21.1)		9.78	8.99	1.69		11.46	10.45	1.85		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									
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									
70 (21.1)		9.78	8.99	1.69		11.46	10.45	1.85		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									
25VNA836 / FE4ANF005 Heating Comfort Mode Outdoor Coil Entering Air Temperature ° F (° C)																					
INDOOR AIR		37 (2.8)										47 (8.3)					57 (13.9)				
		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†		Total
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									
70 (21.1)		29.45	26.80	2.84		33.62	33.62	2.88		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									
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									
70 (21.1)		16.06	14.61	1.61		18.51	18.51	1.57		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									
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									
70 (21.1)		10.89	9.91	1.15		6.75	6.75	0.68		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									
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									
70 (21.1)		10.89	9.91	1.15		6.46	6.46	0.76		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									

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 60

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 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA848

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4ANB006	0.99	0.95	
CAP**4817AL*	1.04	1.03	58CV(A,X)090-16
CSPH*4812AL*	1.05	1.04	58CV(A,X)090-16
CSPH*6012AL*	1.03	1.01	58CV(A,X)090-16
CSPH*4812AL*	1.04	1.03	58CV(A,X)110-20
CAP**6021AL*	1.02	1.02	58CV(A,X)110-20
CNPV*4821AL*	1.05	1.04	58CV(A,X)110-20
CSPH*4812AL*	1.03	1.00	58CV(A,X)110-20
CAP**4824AL*	1.03	1.01	58CV(A,X)135-22
CAP**6024AL*	1.01	1.00	58CV(A,X)135-22
CNPV*4824AL*	1.04	1.03	58CV(A,X)135-22
CNPV*6024AL*	1.03	1.01	58CV(A,X)135-22
CSPH*4812AL*	1.05	1.03	58CV(A,X)135-22
CSPH*6012AL*	1.02	0.99	58CV(A,X)135-22
CAP**4824AL*	1.02	1.01	58CV(A,X)155-22
CAP**6024AL*	1.01	0.99	58CV(A,X)155-22
CNPV*4824AL*	1.04	1.03	58CV(A,X)155-22
CNPV*6024AL*	1.03	1.01	58CV(A,X)155-22
CSPH*4812AL*	1.05	1.03	58CV(A,X)155-22
CSPH*6012AL*	1.02	0.98	58CV(A,X)155-22
CAP**4821AL*	1.04	1.05	59*N*A080V21**20
CAP**6021AL*	1.02	1.03	59*N*A080V21**20
CNPV*4821AL*	1.05	1.06	59*N*A080V21**20
CNPV*6021AL*	1.05	1.05	59*N*A080V21**20
CSPH*4812AL*	1.03	1.01	59*N*A080V21**20
CSPH*6012AL*	1.05	1.01	59*N*A080V21**20
CAP**4821AL*	1.04	1.04	59*N*A100V21**22
CAP**6021AL*	1.01	1.01	59*N*A100V21**22
CNPV*4821AL*	1.05	1.04	59*N*A100V21**22
CNPV*6021AL*	1.05	1.04	59*N*A100V21**22
CSPH*4812AL*	1.03	1.01	59*N*A100V21**22
CSPH*6012AL*	1.04	1.01	59*N*A100V21**22
CAP**4824AL*	1.02	1.02	59*N*A120V24**22
CAP**6024AL*	1.05	1.05	59*N*A120V24**22
CNPV*4824AL*	1.03	1.03	59*N*A120V24**22
CNPV*6024AL*	1.05	1.04	59*N*A120V24**22
CSPH*4812AL*	1.03	1.01	59*N*A120V24**22
CSPH*6012AL*	1.05	1.08	59MN7A060V21**20
CAP**6021AL*	1.03	1.07	59MN7A060V21**20
CNPV*4821AL*	1.06	1.09	59MN7A060V21**20
CSPH*4812AL*	1.06	1.06	59MN7A060V21**20
CSPH*6012AL*	1.04	1.05	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 9)			
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.
FV4CNB006	1.00	0.99	0.98
CAP**4817AL*	1.06	1.10	1.02
CSPH*4812AL*	1.07	1.10	1.03
CSPH*6012AL*	1.06	1.08	1.01
CAP**4821AL*	1.05	1.07	1.01
CAP**6021AL*	1.03	1.04	0.99
CNPV*4821AL*	1.06	1.07	1.02
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.05	1.04	1.01
CAP**4821AL*	1.05	1.07	1.02
CAP**6021AL*	1.03	1.04	1.00
CNPV*4821AL*	1.06	1.07	1.02
CNPV*6021AL*	1.06	1.08	1.02
CSPH*4812AL*	1.04	1.02	1.01
CSPH*6012AL*	1.05	1.07	1.01
CAP**4817AL*	1.06	1.08	1.02
CSPH*4812AL*	1.05	1.05	1.01
CAP**6021AL*	1.05	1.07	1.01
CNPV*4821AL*	1.03	1.04	0.99
CNPV*6021AL*	1.03	1.04	0.99
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.06	1.07	1.02
CAP**4817AL*	1.04	1.05	1.01
CAP**6021AL*	1.04	1.05	1.01
CNPV*4821AL*	1.03	1.03	0.99
CNPV*6021AL*	1.04	1.05	1.02
CSPH*4812AL*	1.04	1.05	1.02
CSPH*6012AL*	1.04	1.05	1.02
CAP**4824AL*	1.04	1.05	1.01
CAP**6024AL*	1.03	1.03	0.99
CNPV*4824AL*	1.05	1.03	1.00
CNPV*6024AL*	1.04	1.05	1.02
CSPH*4812AL*	1.05	1.04	1.02
CSPH*6012AL*	1.04	1.02	1.00
CAP**4817AL*	1.05	1.07	1.01
CAP**6021AL*	1.05	1.07	1.01
CNPV*4821AL*	1.03	1.04	0.99
CNPV*6021AL*	1.03	1.04	0.99
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.06	1.07	1.02
CAP**4817AL*	1.04	1.05	1.01
CAP**6021AL*	1.04	1.05	1.01
CNPV*4821AL*	1.03	1.03	0.99
CNPV*6021AL*	1.04	1.05	1.02
CSPH*4812AL*	1.04	1.05	1.02
CSPH*6012AL*	1.04	1.05	1.02
CAP**4824AL*	1.04	1.05	1.01
CAP**6024AL*	1.03	1.03	0.99
CNPV*4824AL*	1.05	1.03	1.00
CNPV*6024AL*	1.04	1.05	1.02
CSPH*4812AL*	1.05	1.04	1.02
CSPH*6012AL*	1.04	1.02	1.00
CAP**4817AL*	1.05	1.07	1.01
CAP**6021AL*	1.05	1.07	1.01
CNPV*4821AL*	1.03	1.04	0.99
CNPV*6021AL*	1.03	1.04	0.99
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.06	1.07	1.02
CAP**4817AL*	1.04	1.05	1.01
CAP**6021AL*	1.04	1.05	1.01
CNPV*4821AL*	1.03	1.03	0.99
CNPV*6021AL*	1.04	1.05	1.02
CSPH*4812AL*	1.04	1.05	1.02
CSPH*6012AL*	1.04	1.05	1.02
CAP**4824AL*	1.04	1.05	1.01
CAP**6024AL*	1.03	1.03	0.99
CNPV*4824AL*	1.05	1.03	1.00
CNPV*6024AL*	1.04	1.05	1.02
CSPH*4812AL*	1.05	1.04	1.02
CSPH*6012AL*	1.04	1.02	1.00
CAP**4817AL*	1.05	1.07	1.01
CAP**6021AL*	1.05	1.07	1.01
CNPV*4821AL*	1.03	1.04	0.99
CNPV*6021AL*	1.03	1.04	0.99
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.06	1.07	1.02
CAP**4817AL*	1.04	1.05	1.01
CAP**6021AL*	1.04	1.05	1.01
CNPV*4821AL*	1.03	1.03	0.99
CNPV*6021AL*	1.04	1.05	1.02
CSPH*4812AL*	1.04	1.05	1.02
CSPH*6012AL*	1.04	1.05	1.02
CAP**4824AL*	1.04	1.05	1.01
CAP**6024AL*	1.03	1.03	0.99
CNPV*4824AL*	1.05	1.03	1.00
CNPV*6024AL*	1.04	1.05	1.02
CSPH*4812AL*	1.05	1.04	1.02
CSPH*6012AL*	1.04	1.02	1.00
CAP**4817AL*	1.05	1.07	1.01
CAP**6021AL*	1.05	1.07	1.01
CNPV*4821AL*	1.03	1.04	0.99
CNPV*6021AL*	1.03	1.04	0.99
CSPH*4812AL*	1.06	1.07	1.02
CSPH*6012AL*	1.06	1.07	1.02
CAP**4817AL*	1.04	1.05	1.01
CAP**6021AL*	1.04	1.05	1.01
CNPV*4821AL*	1.03	1.03	0.99
CNPV*6021AL*	1.04	1.05	1.02
CSPH*4812AL*	1.04	1.05	1.02
CSPH*6012AL*	1.04	1.05	1.02
CAP**4824AL*	1.04	1.05	1.01
CAP**6024AL*	1.03	1.03	0.99
CNPV*4824AL*	1.05	1.03	1.00
CNPV*6024AL*	1.04	1.05	1.02
CSPH*4812AL*	1.05	1.04	1.02
CSPH*6012AL*	1.04	1.02	1.00

2-STAGE (Hi-Stage 5, Lo-Stage 3)			
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.
CSPH*6012AL*	1.05	1.03	1.01
CAP**4817AL*	1.05	1.08	1.01
CSPH*4812AL*	1.06	1.09	1.02
CSPH*6012AL*	1.05	1.07	1.01
CAP**4821AL*	1.05	1.08	1.02
CAP**6021AL*	1.03	1.05	1.00
CNPV*4821AL*	1.06	1.07	1.03
CSPH*4812AL*	1.06	1.07	1.03

See notes on page 60

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	56.12	49.84	7.10
70 (21.1)		29.47	27.09	4.22		49.06	44.73	7.02		56.12	49.84	7.10		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		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	1275	28.08	24.94	2.44
70 (21.1)		20.30	18.66	2.58		23.86	21.75	2.51		26.08	24.94	2.44		26.08	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		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	1275	20.88	18.55	1.56
70 (21.1)		20.31	18.66	2.58		23.85	21.75	2.51		20.88	18.55	1.56		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		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	43.06	43.06	2.72
70 (21.1)		64.85	59.01	7.31		73.27	73.27	7.50		43.06	43.06	2.72		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		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	1400	43.06	43.06	2.72
70 (21.1)		32.71	29.76	2.53		37.45	37.45	2.63		43.06	43.06	2.72		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		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	900	18.97	18.97	1.06
70 (21.1)		24.31	22.12	1.66		16.40	16.40	0.93		18.97	18.97	1.06		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		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 60

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA860

HEATING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	
*FE4ANB006L	1.00	1.00	1.03		
CAP**6021AL*	1.00	1.03	1.03	56CV(A.X)110-20	
CAP**6024AL*	1.00	1.03	1.03	56CV(A.X)110-20	
CNPV*6024AL*	1.00	1.03	1.03	56CV(A.X)110-20	
CSPH*6012AL*	1.00	1.01	1.01	56CV(A.X)110-20	
CAP**6024AL*	1.00	1.02	1.02	56CV(A.X)135-22	
CNPV*6024AL*	1.00	1.02	1.02	56CV(A.X)135-22	
CSPH*6012AL*	1.00	1.01	1.01	56CV(A.X)135-22	
CAP**6024AL*	1.00	1.01	1.01	56CV(A.X)155-22	
CNPV*6024AL*	1.00	1.02	1.02	56CV(A.X)155-22	
CSPH*6012AL*	1.00	1.01	1.01	56CV(A.X)155-22	
CAP**6021AL*	1.00	1.03	1.03	59*N*A080V21**20	
CAP**6024AL*	1.00	1.03	1.03	59*N*A080V21**20	
CNPV*6024AL*	1.00	1.03	1.03	59*N*A080V21**20	
CSPH*6012AL*	1.00	1.01	1.01	59*N*A080V21**20	
CAP**6021AL*	1.00	1.03	1.03	59*N*A100V21**22	
CAP**6024AL*	1.00	1.03	1.03	59*N*A100V21**22	
CNPV*6024AL*	1.00	1.03	1.03	59*N*A100V21**22	
CSPH*6012AL*	1.00	1.01	1.01	59*N*A100V21**22	
CAP**6024AL*	1.00	1.03	1.03	59*N*A120V24**22	
CNPV*6024AL*	1.00	1.03	1.03	59*N*A120V24**22	
CSPH*6012AL*	1.00	1.01	1.01	59*N*A120V24**22	
CAP**6021AL*	1.00	1.04	1.04	59MN7A060V21**20	
CAP**6024AL*	1.00	1.04	1.04	59MN7A060V21**20	
CNPV*6024AL*	1.00	1.04	1.04	59MN7A060V21**20	
CSPH*6012AL*	1.00	1.03	1.03	59MN7A060V21**20	

2-STAGE (Hi-Stage 5, Lo-Stage 3)					
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FV4CNB006L	1.00	1.00	1.00	1.00	
CAP**6021AL*	1.00	1.03	1.02	1.07	59*P2A080E21**20
CAP**6024AL*	1.00	1.03	1.02	1.07	59*P2A100E21**20
CNPV*6021AL*	1.00	1.03	1.02	1.06	58PH*110-20
CNPV*6024AL*	1.00	1.03	1.02	1.07	58CTW110-22
CSPH*6012AL*	1.00	1.03	1.02	1.07	59*P2A120E24**20
CAP**6024AL*	1.00	1.03	1.02	1.07	58CTW135-22
CNPV*6024AL*	1.00	1.04	1.04	1.10	59*P2A120E24**20
CNPV*6024AL*	1.00	1.04	1.04	1.10	58PH*135-20
CNPV*6024AL*	1.00	1.03	1.04	1.09	58CTW135-22
CNPV*6024AL*	1.00	1.04	1.04	1.10	OVLAA060154
CSPH*6012AL*	1.00	1.01	1.04	1.06	58PH*110-20
CSPH*6012AL*	1.00	1.01	1.04	1.07	58PH*135-20
CSPH*6012AL*	1.00	1.01	1.04	1.07	58CTW110-22
CSPH*6012AL*	1.00	1.01	1.04	1.07	58CTW135-22

NOTES:

* Tested combination.

† 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

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.

- 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.