

**25VNA8 Infinity® 18VS
Variable Speed Heat Pump
2, 3, and 4–Ton
(5–Ton Coming Q4 2014)**



Product Data



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.

INDUSTRY LEADING FEATURES / BENEFITS

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 N	2 N	3 A	4 A	5 A/N	6 N	7 N	8 N	9 A/N	10 A/N	11 A/N	12 N	13 N
2	5	V	N	A	8	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity 1,000 Btuh (nominal)	Variations	Open	Open	Voltage	Minor Series		
25 = HP	V = VS HP	N = Infinity Series	A = Puron	8 = 18 SEER		A = Standard	0 = Not Defined	0 = Not Defined	3 = 208/230 – 1	0, 1, 2...		



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STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series			
	24–30	25–30	36–30	48–30
Puron Refrigerant	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X
Air–Cooled Integrated Inverter Drive	X	X	X	X
Louvered Coil Guard	X	X	X	X
Field Installed Filter Drier	X	X	X	X
Front Seating Service Valves	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X
Suction Pressure Transducer	X	X	X	X
High Pressure Switch	X	X	X	X
Internal Crankcase Heater	X	X	X	X
Utility Interface Connections	X	X	X	X
Enhanced Diagnostics with Infinity™ Touch Control with version 11 software or newer	X	X	X	X
Deluxe Sound Blanket	X	X	X	X
Outdoor Air Temperature Sensor	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	--

* 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
24–30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
25–30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36–30	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
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

Rating Line Size in **Bold**

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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.

† 5–Ton coming Q4 2014

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

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

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

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

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	24 – 30	25 – 30	36 – 30	48 – 30
Operating Weight lb (kg)	164 (74.4)	164 (74.4)	164 (74.4)	218 (99)
Shipping Weight lb (kg)	190 (86)	190 (86)	190 (86)	257 (117)
Compressor Type	Variable Speed Rotary	Variable Speed Rotary		
REFRIGERANT	Puron® (R–410A)	Puron® (R–410A)		
Control	TXV (Puron® Hard Shutoff)	TXV (Puron® Hard Shutoff)		
Charge lb (kg)	6.4 (2.91)	6.4 (2.91)	6.4 (2.91)	8.3 (3.76)
Outdoor Htg Exp. Device	EXV	EXV	EXV	EXV
COND FAN	Forward Swept Propeller Type, Direct Drive	Forward Swept Propeller Type, Direct Drive		
Air Discharge	Vertical	Vertical		
Air Qty (CFM)	2500	2500	2500	4500
Motor HP	1/3	1/3	1/3	1/3
Motor RPM	1050	1050	1050	850
COND COIL				
Face Area (Sq ft)	13.90	13.90	13.90	21.50
Fins per In.	20	20	20	20
Rows	1	1	1	1
Circuits	6	6	6	8
VALVE CONNECT. (In. ID)				
Vapor	3/4	3/4	3/4	7/8
Liquid	3/8	3/8		
REFRIGERANT TUBES (In. OD)				
Rated Vapor*	7/8	7/8	7/8	1–1/8
Max Liquid Line	3/8	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.

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

KIT NUMBER	KIT NAME	24–30	25–30	36–30	48–30
HK70EZ016	MODEL PLUG FOR FV4(A,B), FK, 40FK	X	X		
HK70EZ017	MODEL PLUG FOR FV4(A,B), FK, 40FK			X	
HK70EZ018	MODEL PLUG FOR FV4(A,B), FK, 40FK				X
KSASF0201AAA	SUPPORT FEET	X	X	X	
KSASF0101AAA	SUPPORT FEET				X
KSATX0201PUR	TXV	X	X		
KSATX0301PUR	TXV			X	
KSATX0401PUR	TXV				X
LM10KK003	VAPOR LINE MUFFLER	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.

ELECTRICAL DATA

UNIT SIZE – VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH ft (m)‡	MAX LENGTH ft (m)‡	MAX FUSE* * or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60°C	75°C	60°C	75°C	
24 – 30	208 – 230 – 1	253	197	N/A	17.7	1.2	23.6	12	12	52 (15.9)	50 (16.2)	40
25 – 30				N/A	17.7	1.2	23.6	12	12	52 (15.9)	50 (16.2)	40
36 – 30				N/A	18.3	1.2	24.4	12	12	51 (15.5)	48 (14.6)	40
48 – 30				N/A	25.1	1.2	31.4	10	10	64 (19.5)	60 (18.3)	50

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

† If wire is applied at ambient greater than 30°C, consult table 310–16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336–26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

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

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

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

SOUND POWER LEVEL (dBA)

Unit Size – Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling	Max Speed Heating
24–30	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)	55.0	72.0	71.0
25–30	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)	55.0	69.0	71.0
36–30	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)	55.0	72.0	71.0
48–30	Freq (Hz)	1500 RPM	4320 RPM	5400 RPM
	125	49.5	59.0	55.5
	250	54.5	64.0	66.5
	500	54.0	66.0	65.0
	1000	54.5	64.5	63.0
	2000	52.0	63.5	66.0
	4000	54.5	63.5	67.5
	8000	46.5	53.0	58.5
	Sound Rating (dBA)	64.0	72.0	73.0

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

RPM-CAPACITY-SOUND (dBA)*

25VNA8

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
25VNA824			
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

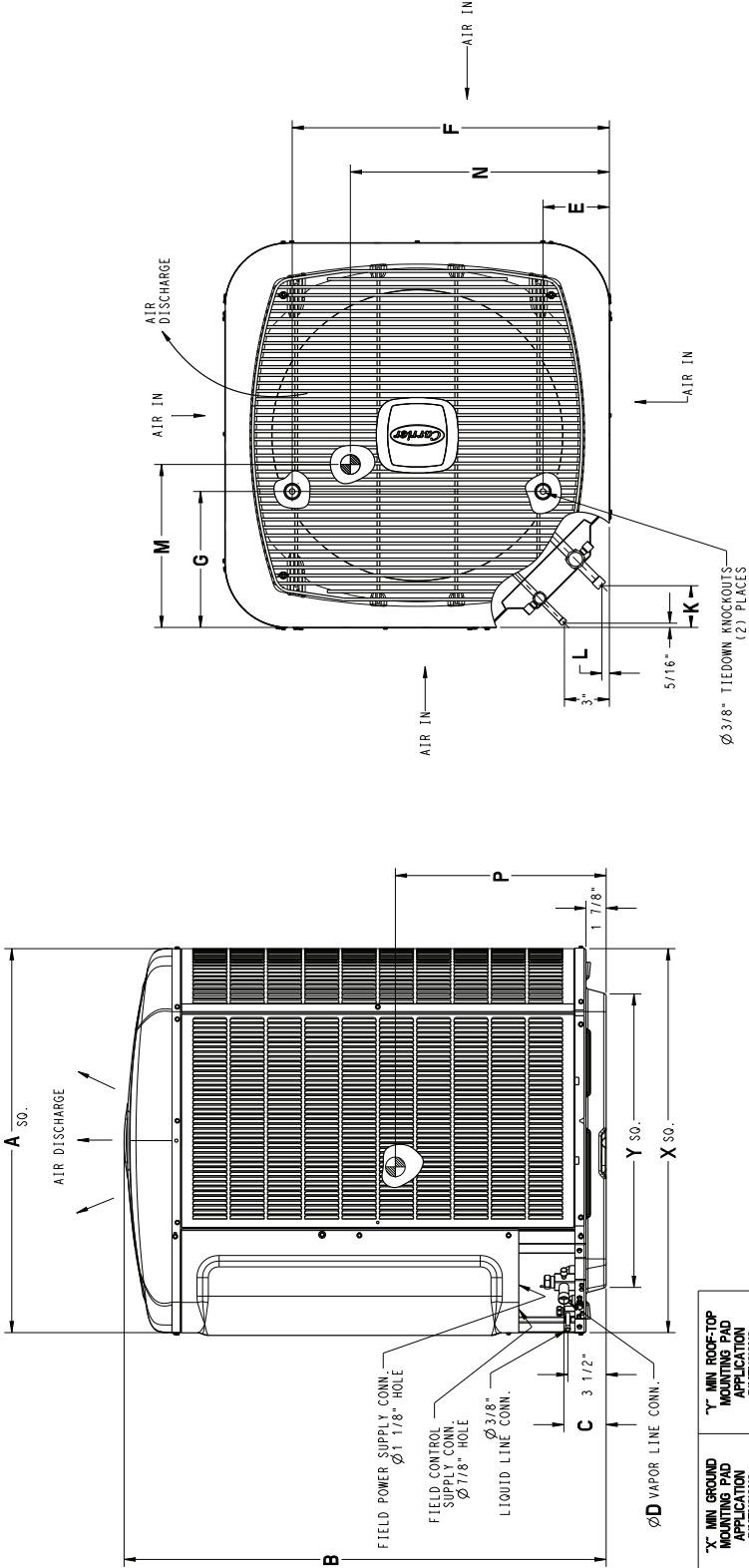
*Estimated sound for stages 2, 3, and 4

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)		
25VNA824	0	X	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"	25 1/4"	43 3/8"
25VNA825	0	X	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"	25 1/4"	43 3/8"
25VNA836	0	X	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"	25 1/4"	43 3/8"
25VNA848	0	X	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"	33 3/8"	46 1/8"

X = YES
O = NO

208-230-160	230-160	208/230-3-60	460-3-60
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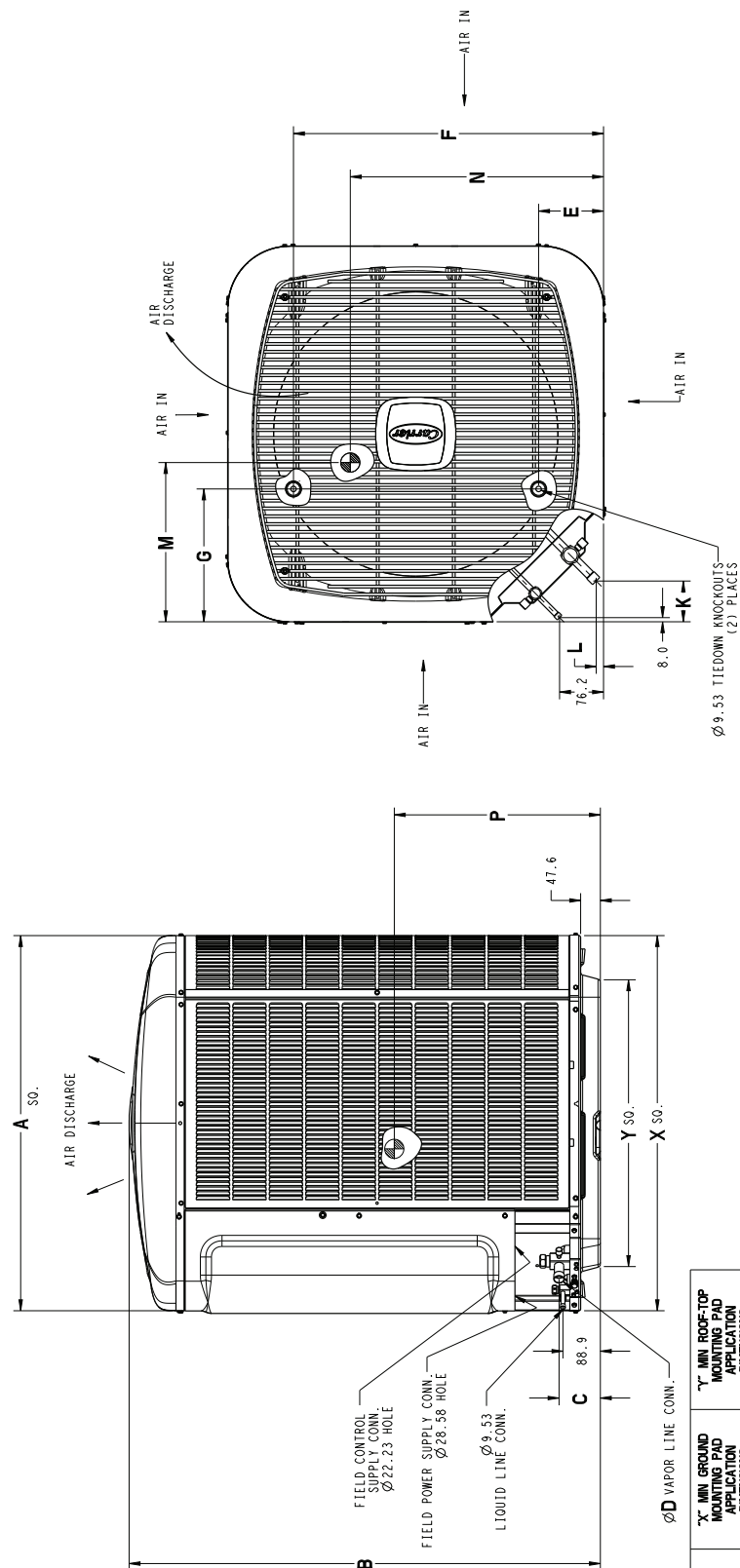
UNIT SIZE	X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
24, 25, 36	23 1/8"	17 3/4"
48	25 3/4"	20 7/16"
-	31 3/16"	23"
-	35"	26 3/4"

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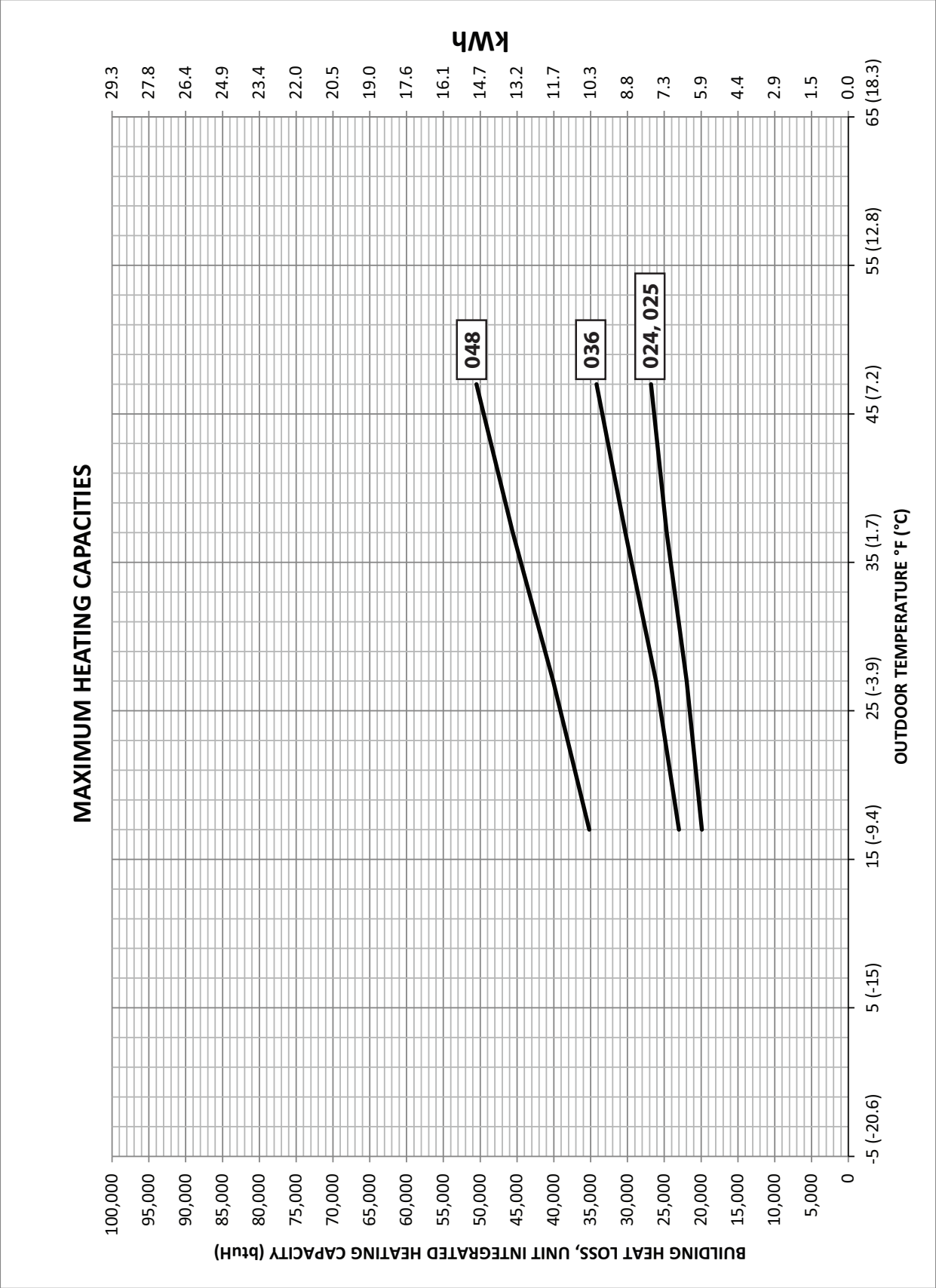
DIMENSIONS - SI

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)		
25VNA824	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	641.5	X 1102.2
25VNA825	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	641.5	X 1102.2
25VNA836	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	641.5	X 1102.2
25VNA848	0	X	0	0	0	592.2	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

X = YES
O = NO



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	792.2	583.2
-	859.0	670.7



TESTED AHRI COMBINATION RATINGS*

Advance PD ratings shown below. Ratings will be available in AHRI ratings database 30 days prior to first production.

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
25VNA824A**30	FE4AN(B,F)005L+UI		24,000	17.0	11.0	825	10.0	25,000	3.32	15,500	2.01
25VNA824A**30	FV4CN(B,F)003L		23,000	15.5	11.0	700	8.0	25,000	2.97	15,500	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	11.5	700	8.2	30,200	3.04	20,000	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

* 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

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

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

25VNA824 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES °F (°C)																								
EDB °F (°C)	EVAP. AIR	115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)							
		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†					
75 (23.9)	72 (22.2)	825	23.61	9.88	3.38	825	25.24	10.47	2.76	825	26.64	10.98	2.19	825	29.67	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	17.35	2.73		22.17	17.92	2.18		23.46	18.51	1.73		24.71	19.11	1.33	25.92	19.72	1.00
	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		22.67	22.67	1.34	23.60	23.60	1.01
	72 (22.2)		23.53	13.78	3.38		25.17	14.37	2.76		26.56	14.92	2.19		28.10	15.50	1.71		29.60	16.09	1.31	31.02	16.63	0.96
80 (26.7)	67 (19.4)	825	21.28	17.58	3.34	825	22.75	18.19	2.75	825	24.00	18.75	2.18	825	26.74	19.96	1.32	825	28.05	20.56	0.98			
	63 (17.2)		20.03	20.03	3.32		21.17	21.09	2.74		22.29	21.72	2.18		23.54	22.34	1.73		24.78	22.95	1.33	25.96	23.61	1.00
	57 (13.9)		19.99	19.99	3.32		21.10	21.10	2.73		22.06	22.06	2.18		23.08	23.08	1.73		24.09	24.09	1.33	25.06	25.06	1.00
	72 (22.2)		15.43	6.56	1.86		16.55	6.96	1.57		17.40	7.27	1.23		18.52	7.59	0.99		19.58	8.06	0.78	20.65	8.45	0.60
	67 (19.4)		13.88	9.30	1.86		14.90	9.71	1.58		15.70	10.04	1.24		16.69	10.46	1.01		17.67	10.87	0.81	18.63	11.27	0.63
75 (23.9)	63 (17.2)	650	12.80	11.44	1.85	650	13.73	11.87	1.59	650	14.47	12.22	1.24	650	15.39	12.65	1.02	650	16.27	13.10	0.83			
	57 (13.9)		12.38	12.38	1.85		13.13	13.13	1.59		13.73	13.73	1.25		14.44	14.44	1.03		15.14	15.14	0.84	15.81	15.81	0.67
	72 (22.2)		15.37	9.34	1.86		16.49	9.75	1.57		17.33	10.09	1.23		18.42	10.48	0.99		19.51	10.89	0.78	20.58	11.27	0.60
	67 (19.4)		13.87	12.03	1.86		14.88	12.46	1.58		15.67	12.80	1.24		16.66	13.25	1.01		17.62	13.69	0.81	18.59	14.08	0.63
	63 (17.2)		13.28	13.28	1.86		14.07	14.07	1.59		14.69	14.69	1.24		15.58	15.21	1.02		16.44	15.74	0.83	17.23	16.25	0.65
80 (26.7)	57 (13.9)	650	13.26	13.26	1.86	650	14.04	14.04	1.59	650	14.66	14.66	1.24	650	15.42	15.42	1.02	650	16.14	16.14	0.83			
	72 (22.2)						10.38	4.52	0.57		11.19	4.70	0.49		11.92	5.07	0.40		12.67	5.34	0.30			
	67 (19.4)						9.32	6.60	0.59		10.00	6.88	0.52		10.68	7.16	0.44		11.35	7.44	0.35			
	63 (17.2)						8.58	8.20	0.60		9.20	8.49	0.54		9.81	8.79	0.47		10.41	9.08	0.38			
	57 (13.9)						8.47	8.47	0.60		8.98	8.98	0.54		9.48	9.48	0.48		9.96	9.96	0.40			
75 (23.9)	72 (22.2)	N/A				N/A				N/A	10.33	6.84	0.57	N/A	11.86	7.20	0.40	N/A	12.62	7.48	0.30			
	67 (19.4)						9.33	8.66	0.58		10.67	9.26	0.44		11.33	9.56	0.35							
	63 (17.2)						9.12	9.12	0.59		10.20	10.20	0.45		10.72	10.72	0.37							
	57 (13.9)						9.11	9.11	0.59		10.18	10.18	0.45		10.69	10.69	0.37							
	72 (22.2)																							
80 (26.7)	67 (19.4)	N/A				N/A				N/A				N/A				N/A						
	63 (17.2)																							
	57 (13.9)																							
	72 (22.2)																							
	67 (19.4)																							

See notes on page 28

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA824

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,F)003	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*4212AL*	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
FVACN(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	1.08	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*	0.95	1.13	0.98	1.07	59*P2A040E17**12
CSPH*3612AL*	0.96	1.09	0.98	1.07	59*P2A040E17**12
CAP**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
CSPH*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	0.96	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

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA825 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F																													
EDB °F (°C)	EVAP. AIR °F (°C)	115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)							
		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**	Capacity MBtuh		Total Sys KW**					
			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†		Total	Sens†						
STAGE 5																													
75 (23.9)	72 (22.2)	825	23.61	9.88	2.53	825	25.24	10.47	2.23	825	26.64	10.98	1.92	825	28.18	11.54	1.66	825	29.67	12.09	1.41	825	31.12	12.64	1.18				
	67 (19.4)		21.33	13.74	2.50		22.80	14.32	1.92		24.06	14.87	1.67		25.46	15.46	1.43		26.82	16.05	1.21								
	63 (17.2)		19.66	16.76	2.48		21.01	17.35	1.92		22.17	17.92	1.67		23.46	18.51	1.44		24.71	19.11	1.23								
	57 (13.9)		18.72	18.72	2.47		19.79	19.79	1.91		20.71	20.71	1.67		21.71	21.71	1.45		22.67	22.67	1.24								
	72 (22.2)		23.53	13.78	2.53		25.17	14.37	1.92		26.56	14.92	1.66		28.10	15.50	1.41		29.60	16.09	1.18								
80 (26.7)	67 (19.4)	825	21.28	17.58	2.50	825	22.75	18.19	2.22	825	24.00	18.75	1.92	825	25.40	19.35	1.67	825	26.74	19.96	1.43	825	28.05	20.56	1.21				
	63 (17.2)		20.03	20.03	2.49		21.17	21.09	1.92		22.29	21.72	1.67		23.54	22.34	1.44		24.78	22.95	1.23								
	57 (13.9)		19.99	19.99	2.49		21.10	21.10	1.91		22.06	22.06	1.67		23.08	23.08	1.44		24.09	24.09	1.23								
	72 (22.2)		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	0.67								
	67 (19.4)		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	0.71								
75 (23.9)	63 (17.2)	650	12.80	11.44	1.50	650	13.73	11.87	1.37	650	14.47	12.22	1.14	650	15.39	12.65	1.00	650	16.27	13.10	0.87	650	17.17	13.48	0.73				
	57 (13.9)		12.38	12.38	1.50		13.13	13.13	1.37		13.73	13.73	1.14		14.44	14.44	1.01		15.14	15.14	0.76								
	72 (22.2)		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	0.67								
	67 (19.4)		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	0.71								
	63 (17.2)		13.28	13.28	1.50		14.07	14.07	1.37		14.69	14.69	1.14		15.58	15.21	0.87		16.44	15.74	0.73								
80 (26.7)	57 (13.9)	650	13.26	13.26	1.50	650	14.04	14.04	1.37	650	14.66	14.66	1.14	650	15.42	15.42	1.00	650	16.14	16.14	0.87	650	16.85	16.85	0.74				
	72 (22.2)																												
	67 (19.4)																												
	63 (17.2)																												
	57 (13.9)																												
75 (23.9)	72 (22.2)	N/A				N/A				585	10.38	4.52	0.57	585	11.19	4.70	0.49	585	11.92	5.07	0.40	585	12.67	5.34	0.30				
	67 (19.4)																												
	63 (17.2)																												
	57 (13.9)																												
	72 (22.2)																												
80 (26.7)	67 (19.4)	N/A				N/A				585	9.33	8.66	0.58	585	10.00	8.96	0.52	585	10.67	9.26	0.44	585	11.33	9.56	0.35				
	63 (17.2)																												
	57 (13.9)																												
	72 (22.2)																												
	67 (19.4)																												

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA825

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,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	1.05	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*3612AL*	1.02	1.16	59*N*A060V17**14
CSPH*4212AL*	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,F)003	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
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*	0.93	1.02	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*	0.95	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
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

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA836 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F																									
EDB ° F (° C)	EVAP AIR EWB ° F (° C)	115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (19.3)			
		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	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†		Total	Sens†	Total	Sens†
75 (23.9)	72 (22.2)	1050	33.66	13.76	3.92	1050	35.83	14.56	3.62	1050	37.64	15.24	3.33	1050	39.71	16.02	3.03	1050	41.70	16.78	2.74	1050	43.66	17.54	2.45
	67 (19.4)		30.67	18.58	3.83		32.63	19.41	3.55		34.28	20.14	3.26		36.14	20.93	2.98		37.96	21.76	2.70		39.71	22.50	2.42
	63 (17.2)		28.43	22.37	3.76		30.25	23.22	3.49		31.80	23.97	3.20		33.50	24.78	2.93		35.17	25.58	2.67		36.77	26.36	2.41
	57 (13.9)		26.29	26.29	3.70		27.67	27.67	3.42		28.85	28.85	3.14		30.12	30.12	2.88		31.51	31.06	2.63		32.87	31.93	2.38
	72 (22.2)		33.58	18.53	3.92		35.75	19.37	3.62		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	1050	32.54	24.17	3.55	1050	34.20	24.92	3.26	1050	36.06	25.73	2.98	1050	37.87	26.55	2.70	1050	39.64	27.35	2.42
	63 (17.2)		28.45	27.05	3.77		30.25	27.93	3.49		31.78	28.71	3.20		33.48	29.54	2.93		35.15	30.40	2.67		36.73	31.18	2.41
	57 (13.9)		27.92	27.92	3.75		29.37	29.37	3.47		30.60	30.60	3.18		31.93	31.93	2.91		33.21	33.21	2.65		34.45	34.45	2.39
	72 (22.2)		21.50	9.09	2.51		22.99	9.62	2.19		24.00	9.99	1.85		25.46	10.52	1.58		26.89	11.04	1.32		28.22	11.54	1.09
	67 (19.4)		19.38	12.78	2.49		20.72	13.34	2.18		21.71	13.77	1.84		23.03	14.33	1.57		24.32	14.88	1.33		25.58	15.44	1.11
75 (23.9)	63 (17.2)	900	17.85	15.69	2.47	900	19.07	16.26	2.18	900	20.03	16.73	1.83	900	21.24	17.32	1.57	900	22.42	17.89	1.34	900	23.59	18.46	1.12
	57 (13.9)		17.16	17.16	2.47		18.15	18.15	2.17		18.94	18.94	1.82		19.90	19.90	1.57		20.84	20.84	1.34		21.76	21.76	1.13
	72 (22.2)		21.43	12.83	2.51		22.91	13.39	2.19		23.93	13.80	1.85		25.39	14.36	1.58		26.81	14.92	1.32		28.20	15.48	1.09
	67 (19.4)		19.34	16.49	2.49		20.67	17.07	2.18		21.66	17.54	1.84		22.97	18.13	1.57		24.25	18.71	1.33		25.52	19.29	1.11
	63 (17.2)		18.40	18.40	2.48		19.44	19.44	2.18		20.23	20.23	1.83		21.35	21.04	1.57		22.50	21.67	1.34		23.66	22.27	1.12
80 (26.7)	57 (13.9)	900	18.36	18.36	2.48	900	19.40	19.40	2.18	900	20.20	20.20	1.83	900	21.20	21.20	1.57	900	22.18	22.18	1.34	900	23.13	23.13	1.12
	72 (22.2)																								
	67 (19.4)																								
	63 (17.2)																								
	57 (13.9)																								
75 (23.9)	72 (22.2)	N/A				N/A				600	10.69	4.69	0.66	600	11.51	4.98	0.49	600	12.34	5.28	0.34	600	13.17	5.58	0.22
	67 (19.4)																								
	63 (17.2)																								
	57 (13.9)																								
	72 (22.2)																								
80 (26.7)	67 (19.4)	N/A				N/A				600	9.54	6.85	0.69	600	10.28	7.17	0.52	600	11.02	7.49	0.37	600	11.76	7.81	0.25
	63 (17.2)																								
	57 (13.9)																								
	72 (22.2)																								
	67 (19.4)																								

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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)070-12
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
CAP**4821AL*	0.98	1.03	58CV(A.X)110-20
CNPV*3621AL*	0.95	1.05	58CV(A.X)110-20
CNPV*4221AL*	0.96	1.07	58CV(A.X)110-20
CNPV*4821AL*	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)110-20
CSPH*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**4224AL*	0.96	1.06	58CV(A.X)155-22
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	1.09	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*	0.95	1.11	59*N*A060V17**14
CNPV*4817AL*	0.96	1.07	59*N*A060V17**14
CSPH*3612AL*	0.96	1.13	59*N*A060V17**14
CSPH*4212AL*	0.97	1.13	59*N*A060V17**14
CSPH*4812AL*	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*A080V17**14
CNPV*4217AL*	0.96	1.07	59*N*A080V17**14
CSPH*3612AL*	0.97	1.13	59*N*A080V17**14
CSPH*4212AL*	0.98	1.08	59*N*A080V17**14
CSPH*4812AL*	0.98	1.14	59*N*A080V17**14
CAP**3621AL*	0.96	1.06	59*N*A080V21**20
CAP**4821AL*	0.98	1.07	59*N*A080V21**20
CNPV*3621AL*	0.95	1.05	59*N*A080V21**20
CNPV*4221AL*	0.96	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*	0.98	1.07	59*N*A100V21**22
CAP**4821AL*	0.98	1.03	59*N*A100V21**22
CNPV*4221AL*	0.95	1.05	59*N*A100V21**22
CNPV*4821AL*	0.96	1.07	59*N*A100V21**22
CNPV*4821AL*	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*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**4221AL*	0.96	1.06	59MN7A060V21**20
CAP**4821AL*	0.97	1.07	59MN7A060V21**20
CNPV*4221AL*	0.95	1.11	59MN7A060V21**20
CNPV*4821AL*	0.96	1.06	59MN7A060V21**20
CSPH*3612AL*	0.97	1.13	59MN7A060V21**20
CSPH*4212AL*	0.98	1.08	59MN7A060V21**20
CSPH*4812AL*	0.97	1.08	59MN7A060V21**20
CSPH*4812AL*	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)005L	1.00	1.00	1.00	1.00				
	FV4CN(B,F)003	0.97	0.97	1.09	1.13				
	FV4CNF002L	0.95	1.00	1.08	1.18				
	CAP**3614AL*	0.94	1.05	1.06	1.19				58PH*045-08
	CSPH*3612AL*	0.97	1.08	1.08	1.18				58PH*045-08
	CSPH*4212AL*	0.98	1.09	1.08	1.17				58PH*045-08
	CSPH*4812AL*	0.98	1.09	1.09	1.17				58PH*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**3617AL*	0.95	1.00	1.07	1.14				59*P2A060E17**14
	CAP**4817AL*	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
	CSPH*3612AL*	0.98	1.03	1.08	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**3617AL*	0.95	1.00	1.07	1.14				59*P2A080E17**16
	CAP**4817AL*	0.99	0.99	1.09	1.12				59*P2A080E17**16
	CNPV*3617AL*	0.95	1.00	1.06	1.14				59*P2A080E17**16
	CNPV*4217AL*	0.97	0.97	1.08	1.13				59*P2A080E17**16
	CSPH*3612AL*	0.98	1.03	1.08	1.13				59*P2A080E17**16
	CSPH*4212AL*	0.98	1.03	1.09	1.13				59*P2A080E17**16
	CSPH*4812AL*	0.99	1.04	1.09	1.12				59*P2A080E17**16
	CNPV*4217AL*	0.96	1.07	1.08	1.36				59*P2A080E17**16
	CSPH*3612AL*	0.97	1.14	1.08	1.36				59*P2A080E17**16
	CAP**3614AL*	0.94	1.10	1.05	1.23				59*P2A080E17**16
	CSPH*3612AL*	0.96	1.13	1.07	1.22				59*P2A080E17**16
	CSPH*4212AL*	0.97	1.14	1.07	1.21				59*P2A080E17**16
	CSPH*4812AL*	0.97	1.14	1.08	1.21				59*P2A080E17**16
	CAP**3617AL*	0.95	1.00	1.06	1.16				59*P2A080E17**16
	CAP**4817AL*	0.98	1.03	1.08	1.14				59*P2A080E17**16
	CNPV*3617AL*	0.95	1.00	1.06	1.17				59*P2A080E17**16
	CNPV*4217AL*	0.97	1.02	1.07	1.15				59*P2A080E17**16
	CSPH*3612AL*	0.97	1.02	1.07	1.15				59*P2A080E17**16
	CSPH*4212AL*	0.98	1.03	1.08	1.15				59*P2A080E17**16
	CSPH*4812AL*	0.98	1.03	1.08	1.15				59*P2A080E17**16

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA848 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																									
EDB ° F (° C)	EVAP. AIR	115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)								
		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†						
75 (23.9)	72 (22.2)	1400	44.46	17.98	5.29	1400	47.56	19.15	4.75	1400	50.61	20.31	4.25	1400	53.63	21.46	3.77	1400	56.55	22.58	3.32				
	67 (19.4)		40.51	24.29	5.18		43.33	25.57	4.67		46.10	26.82	4.18		48.80	28.08	3.72		51.46	29.27	3.28				
	63 (17.2)		37.58	29.27	5.10		40.18	30.61	4.60		42.74	31.92	4.13		45.26	33.26	3.68		47.68	34.49	3.26				
	57 (13.9)		34.67	34.67	5.01		36.72	36.72	4.51		38.71	38.71	4.05		40.71	40.53	3.62		42.85	41.96	3.22				
	72 (22.2)		44.37	24.23	5.29		47.47	25.50	4.76		50.52	26.74	4.25		53.52	27.99	3.77		56.44	29.20	3.32				
80 (26.7)	67 (19.4)	1400	40.41	30.49	5.19	1400	43.23	31.85	4.67	1400	46.00	33.19	4.18	1400	48.71	34.56	3.72	1400	51.36	35.80	3.28				
	63 (17.2)		37.61	35.36	5.10		40.19	36.80	4.60		42.72	38.22	4.13		45.23	39.65	3.68		47.66	41.04	3.26				
	57 (13.9)		36.76	36.76	5.08		38.92	38.92	4.57		41.00	41.00	4.10		43.02	43.02	3.65		44.98	44.98	3.24				
	72 (22.2)		29.28	12.28	3.11		1200	31.49	13.09		2.77	1200	33.57		13.87	2.39	1200		35.71	14.67	2.09	1200	37.84	15.47	1.80
	67 (19.4)		26.56	17.46	3.09			28.57	18.37		2.77		30.46		19.24	2.40			32.40	20.13	2.10		34.32	21.01	1.83
63 (17.2)	24.54	21.51	3.08	26.37	22.48	2.77		28.13	23.44	2.40	29.90		24.39	2.12	31.67	25.35		1.85							
57 (13.9)	23.57	23.57	3.07	25.10	25.10	2.76		26.55	26.55	2.40	28.01		28.01	2.12	29.44	29.44		1.87							
72 (22.2)	29.19	17.46	3.11	31.40	18.37	2.77		33.48	19.23	2.39	35.62		20.13	2.09	37.74	21.03		1.80							
80 (26.7)	67 (19.4)	1200	26.49	22.57	3.10	1200	28.49	23.58	2.77	1200	30.38	24.55	2.40	1200	32.31	25.53	2.10	1200	34.22	26.51	1.83				
	63 (17.2)		25.22	25.22	3.09		26.83	26.83	2.77		28.37	28.37	2.40		30.06	29.61	2.11		31.78	30.71	1.85				
	57 (13.9)		25.18	25.18	3.09		26.79	26.79	2.77		28.31	28.31	2.40		29.85	29.85	2.12		31.36	31.36	1.85				
	72 (22.2)						STAGE 1	19.56	8.44		1.06	875	20.97		8.97	0.88	875		22.38	9.48	0.71	875	23.80	10.01	0.55
	67 (19.4)		N/A																						
63 (17.2)																									
57 (13.9)																									
72 (22.2)																									
80 (26.7)	67 (19.4)	N/A					875	19.48	12.19	1.06	875	20.89	12.79	0.88	875	22.30	13.40	0.71	875	23.71	14.04	0.55			
	63 (17.2)																								
	57 (13.9)																								
	72 (22.2)																								
	67 (19.4)																								

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

25VNA848

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4ANB006	1.01	1.01	
CAP**4817AL*	0.98	1.08	58CV(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	58CV(A.X)110-20
CAP**6021AL*	1.00	1.05	58CV(A.X)110-20
CNPV*4821AL*	0.98	1.02	58CV(A.X)110-20
CSPH*4812AL*	0.99	1.09	58CV(A.X)110-20
CSPH*6012AL*	1.00	1.10	58CV(A.X)135-22
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
CSPH*4812AL*	0.99	1.15	59*N*A080V21**20
CSPH*6012AL*	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
CSPH*4812AL*	0.99	1.09	59*N*A100V21**22
CSPH*6012AL*	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*	0.99	1.15	59*N*A120V24**22
CSPH*6012AL*	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
CSPH*4812AL*	0.99	1.15	59MN7A060V21**20
CSPH*6012AL*	0.99	1.15	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 2)	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
FV4CN(B,F)005L	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	1.08	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	58CTW110-22
CAP**6021AL*	1.00	1.00	0.99	1.00	58CTW110-22
CNPV*4821AL*	0.98	1.02	0.99	1.00	58CTW110-22
CSPH*4812AL*	0.98	1.02	0.99	1.01	58CTW110-22
CSPH*6012AL*	1.00	1.05	1.01	1.00	58CTW110-22
CAP**4824AL*	0.97	1.01	0.98	1.00	58CTW135-22
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
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**4821AL*	0.98	1.02	0.98	1.01	59*P2A100E21**20
CAP**6021AL*	1.00	1.05	0.99	1.01	59*P2A100E21**20
CNPV*4821AL*	0.98	1.02	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	1.08	59*P5A100E21**20
	CAP**6021AL*	0.99	1.04	1.00	1.07	59*P5A100E21**20
	CNPV*4821AL*	0.97	1.01	0.99	1.07	59*P5A100E21**20
	CSPH*4812AL*	0.98	1.08	1.00	1.08	59*P5A100E21**20

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DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA824 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F (° C)

EDB °F (°C)	EVAP. AIR °F (°C)	115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)					
		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	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†		Total
STAGE 5																						
75 (23.9)	72 (22.2)	N/A				N/A				608								708				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
80 (26.7)	72 (22.2)	N/A				N/A				608								708				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
STAGE 3																						
75 (23.9)	72 (22.2)	N/A				437				415								484				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
80 (26.7)	72 (22.2)	N/A				437				415								484				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
STAGE 1 – FE4ANF005 ONLY																						
75 (23.9)	72 (22.2)	N/A				N/A				250								257				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
80 (26.7)	72 (22.2)	N/A				N/A				250								257				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
STAGE 1 – ALL OTHER INDOOR COMBINATIONS																						
75 (23.9)	72 (22.2)	N/A				N/A				222								257				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					
80 (26.7)	72 (22.2)	N/A				N/A				222								257				
	67 (19.4)																					
	63 (17.2)																					
	57 (13.9)																					

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25VNA8

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA824

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,F)003	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*4212AL*	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)						Furnace Model
Cooling Indoor Model	High Speed Cap.	Power	Low 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	
CSPH*3612AL*	0.97	1.10	0.99	1.07	58PH*045-08	
CAP**2414AL*	0.93	1.06	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*2412AL*	0.94	1.12	0.97	1.08	59*P2A040E17**12	
CSPH*3012AL*	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	0.98	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	1.10	59*PSA040E14**10	
CSPH*2412AL*	0.93	1.11	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	0.96	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	

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DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA825 / FE44NF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F (° C)

EDB °F (°C)	EVAP. AIR EWB °F (°C)	115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)				
		ID SCFM	Capacity MBtuh		Total Sys KW**	ID SCFM	Capacity MBtuh		Total Sys KW**	ID SCFM	Capacity MBtuh		Total Sys KW**	ID SCFM	Capacity MBtuh		Total Sys KW**	ID SCFM	Capacity MBtuh		Total Sys KW**	ID SCFM	Capacity MBtuh		Total Sys KW**	
			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		Total
75 (23.9)	72 (22.2)	N/A				N/A				608																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				608																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 3																										
75 (23.9)	72 (22.2)	N/A				437				415																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				437				415																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – FE44NF005 ONLY																										
75 (23.9)	72 (22.2)	N/A				N/A				250																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				250																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
80 (26.7)	67 (19.4)	N/A				N/A				222																
	63 (17.2)																									
	57 (13.9)																									
	72 (22.2)																									
	67 (19.4)																									
STAGE 1 – ALL OTHER COMBINATIONS																										
75 (23.9)	72 (22.2)	N/A				N/A				222																
	67 (19.4)																									
	63 (17.2)																									
	57 (13.9)																									

See notes on page 28

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA825

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,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	1.05	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*3612AL*	1.02	1.16	59*N*A060V17**14
CSPH*4212AL*	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)						Furnace Model
Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power		
FV4CN(B,F)003	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	
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*	0.93	1.02	0.98	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*	0.95	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	
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	

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DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA836 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F (° C)

EDB ° F (° C)	EVAP AIR	115 (46.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)							
		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†					
75 (23.9)	72 (22.2)	N/A				812	34.41	13.87	3.52	959	36.47	14.69	3.24	906	38.75	15.59	2.97	953	41.01	16.49	2.70			
	67																							
	63																							
	57																							
	72 (22.2)																							
80 (26.7)	67	N/A				812	31.22	21.37	3.45	959	33.11	22.67	3.17	906	35.19	24.04	2.92	953	37.25	25.40	2.66			
	63																							
	57																							
	72 (22.2)																							
	67																							
75 (23.9)	63	N/A				566	17.67	12.81	2.12	610	18.81	13.76	1.77	636	20.04	14.57	1.53	668	21.31	15.48	1.30			
	57																							
	72 (22.2)																							
	67																							
	63																							
80 (26.7)	57	N/A				612	17.66	15.19	2.12	610	18.81	16.32	1.77	636	20.04	17.26	1.53	668	21.32	18.30	1.30			
	72 (22.2)																							
	67																							
	63																							
	57																							
75 (23.9)	72 (22.2)	N/A				N/A				250	9.11	3.68	0.68	250	9.70	3.92	0.52	250	10.29	4.16	0.38			
	67																							
	63																							
	57																							
	72 (22.2)																							
80 (26.7)	67	N/A				N/A				250	9.09	4.60	0.68	250	9.68	4.85	0.52	250	10.26	5.10	0.38			
	63																							
	57																							
	72 (22.2)																							
	67																							
75 (23.9)	63	N/A				N/A				219	8.10	5.46	0.70	250	8.62	5.71	0.54	250	9.14	5.97	0.40			
	57																							
	72 (22.2)																							
	67																							
	63																							
80 (26.7)	57	N/A				N/A				219	7.38	6.13	0.71	250	7.86	6.39	0.56	246	8.34	6.65	0.42			
	72 (22.2)																							
	67																							
	63																							
	57																							
STAGE 1 – FE4ANF005 ONLY																								
75 (23.9)	72 (22.2)	N/A				N/A				250	9.11	3.68	0.68	250	9.70	3.92	0.52	250	10.29	4.16	0.38			
	67																							
	63																							
	57																							
	72 (22.2)																							
80 (26.7)	67	N/A				N/A				250	9.09	4.60	0.68	250	9.68	4.85	0.52	250	10.26	5.10	0.38			
	63																							
	57																							
	72 (22.2)																							
	67																							
75 (23.9)	63	N/A				N/A				219	8.10	5.46	0.70	250	8.62	5.71	0.54	246	9.14	5.97	0.40			
	57																							
	72 (22.2)																							
	67																							
	63																							
80 (26.7)	57	N/A				N/A				219	7.38	6.13	0.71	250	7.86	6.39	0.56	246	8.34	6.65	0.42			
	72 (22.2)																							
	67																							
	63																							
	57																							
STAGE 1 – ALL OTHER COMBINATIONS																								
75 (23.9)	72 (22.2)	N/A				N/A				219	8.76	3.54	0.69	231	9.47	3.82	0.53	246	10.23	4.13	0.38			
	67																							
	63																							
	57																							
	72 (22.2)																							
80 (26.7)	67	N/A				N/A				219	7.78	5.08	0.71	231	8.41	5.47	0.55	246	9.09	5.91	0.41			
	63																							
	57																							
	72 (22.2)																							
	67																							
75 (23.9)	63	N/A				N/A				219	7.09	5.66	0.72	231	7.67	6.09	0.56	246	8.29	6.58	0.42			
	57																							
	72 (22.2)																							
	67																							
	63																							
80 (26.7)	57	N/A				N/A				219	6.35	6.35	0.73	231	6.85	6.85	0.57	246	7.40	7.40	0.44			
	72 (22.2)																							
	67																							
	63																							
	57																							

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25VNA8

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)070-12
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
CAP**4821AL*	0.98	1.03	58CV(A.X)110-20
CNPV*3621AL*	0.95	1.05	58CV(A.X)110-20
CNPV*4221AL*	0.96	1.07	58CV(A.X)110-20
CNPV*4821AL*	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)110-20
CSPH*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**3617AL*	0.95	1.11	59*N*A060V17**14
CAP**4817AL*	0.97	1.07	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*	0.96	1.13	59*N*A060V17**14
CSPH*4212AL*	0.97	1.13	59*N*A060V17**14
CSPH*4812AL*	0.98	1.14	59*N*A060V17**14
CAP**3617AL*	0.95	1.05	59*N*A080V17**14
CAP**4817AL*	0.98	1.08	59*N*A080V17**14
CNPV*3617AL*	0.95	1.11	59*N*A080V17**14
CNPV*4217AL*	0.96	1.07	59*N*A080V17**14
CSPH*3612AL*	0.97	1.13	59*N*A080V17**14
CSPH*4212AL*	0.98	1.08	59*N*A080V17**14
CSPH*4812AL*	0.98	1.14	59*N*A080V17**14
CAP**3621AL*	0.96	1.06	59*N*A080V21**20
CAP**4821AL*	0.98	1.08	59*N*A080V21**20
CNPV*3621AL*	0.95	1.05	59*N*A080V21**20
CNPV*4221AL*	0.96	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	1.07	59*N*A100V21**22
CAP**4221AL*	0.98	1.03	59*N*A100V21**22
CNPV*4221AL*	0.95	1.05	59*N*A100V21**22
CNPV*4821AL*	0.96	1.07	59*N*A100V21**22
CSPH*3612AL*	0.98	1.03	59*N*A100V21**22
CSPH*4212AL*	0.98	1.08	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**4221AL*	0.96	1.06	59MN7A060V21**20
CAP**4821AL*	0.97	1.07	59MN7A060V21**20
CNPV*4221AL*	0.95	1.11	59MN7A060V21**20
CNPV*4821AL*	0.96	1.06	59MN7A060V21**20
CSPH*4212AL*	0.98	1.08	59MN7A060V21**20
CSPH*3612AL*	0.97	1.13	59MN7A060V21**20
CSPH*4812AL*	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
FV4CN(B,F)005L	1.00	1.00	1.00	1.00
FV4CN(B,F)003	0.97	0.97	1.09	1.13
FV4CNF002L	0.95	1.00	1.08	1.18
CAV**3614AL*	0.94	1.05	1.06	1.19
CSPH*3612AL*	0.97	1.08	1.08	1.18
CSPH*4212AL*	0.98	1.09	1.08	1.17
CSPH*4812AL*	0.98	1.09	1.09	1.17
CNPV*4217AL*	0.97	1.02	1.08	1.14
CAP**3617AL*	0.94	1.05	1.07	1.34
CAP**4817AL*	0.98	1.09	1.05	1.19
CNPV*3617AL*	0.94	1.04	1.05	1.22
CNPV*4217AL*	0.96	1.07	1.07	1.21
CSPH*3612AL*	0.97	1.07	1.07	1.21
CSPH*4212AL*	0.97	1.08	1.07	1.20
CSPH*4812AL*	0.98	1.09	1.08	1.20
CAP**3614AL*	0.95	1.00	1.07	1.18
CSPH*3612AL*	0.98	1.03	1.09	1.17
CSPH*4212AL*	0.98	1.03	1.09	1.15
CSPH*4812AL*	0.99	1.04	1.09	1.15
CAP**3617AL*	0.95	1.00	1.07	1.14
CAP**4817AL*	0.99	0.99	1.08	1.11
CNPV*3617AL*	0.95	1.00	1.06	1.14
CNPV*4217AL*	0.97	1.02	1.08	1.13
CSPH*3612AL*	0.98	1.03	1.08	1.13
CSPH*4212AL*	0.98	1.03	1.09	1.13
CSPH*4812AL*	0.99	1.04	1.09	1.12
CAP**3617AL*	0.95	1.00	1.07	1.14
CAP**4817AL*	0.99	0.99	1.09	1.12
CNPV*3617AL*	0.95	1.00	1.06	1.14
CNPV*4217AL*	0.97	0.97	1.08	1.13
CSPH*3612AL*	0.98	1.03	1.08	1.13
CSPH*4212AL*	0.98	1.03	1.09	1.13
CSPH*4812AL*	0.99	1.04	1.09	1.12
CAP**3617AL*	0.95	1.00	1.08	1.36
CAP**4817AL*	0.97	1.14	1.08	1.36
CNPV*4217AL*	0.94	1.10	1.05	1.23
CSPH*3612AL*	0.96	1.13	1.07	1.22
CSPH*4212AL*	0.97	1.14	1.07	1.21
CSPH*4812AL*	0.97	1.14	1.08	1.21
CAP**3617AL*	0.95	1.00	1.06	1.16
CAP**4817AL*	0.98	1.03	1.08	1.16
CNPV*3617AL*	0.95	1.00	1.06	1.14
CNPV*4217AL*	0.97	1.02	1.07	1.15
CSPH*3612AL*	0.97	1.02	1.07	1.15
CSPH*4212AL*	0.97	1.02	1.07	1.15
CSPH*4812AL*	0.98	1.03	1.08	1.15
CSPH*4812AL*	0.98	1.03	1.08	1.14

See notes on page 28

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

25VNA848 / FE4ANF005 EFFICIENCY MODE CONDENSER ENTERING AIR TEMPERATURES ° F (° C)

EDB ° F (° C)	EVA/P AIR EWB ° F (° C)	115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)					
		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	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†		Total	Sens†	Total	Sens†		
75 (23.9)	72 (22.2)	N/A			4.57	1110	46.09	18.50	4.12	1184	49.45	19.82	4.12	1257	52.80	21.13	3.68	1330	56.15	22.43	3.27						
	67 (19.4)				4.48		41.95	23.69	4.05		45.01	25.40	4.05		48.06	27.13	3.63		51.08	28.81	3.24						
	63 (17.2)				4.41		38.90	27.73	3.99		41.73	29.76	3.99		44.55	31.81	3.59		47.36	33.76	3.22						
	57 (13.9)				4.31		34.86	33.64	3.91		37.40	36.10	3.91		39.92	38.54	3.53		42.42	41.01	3.18						
	72 (22.2)				4.57		46.00	23.63	4.12		49.36	25.35	4.12		52.70	27.08	3.68		56.03	28.75	3.27						
80 (26.7)	67 (19.4)	N/A			4.48	1110	41.88	28.74	4.05	1184	44.93	30.85	4.05	1257	47.97	32.99	3.63	1330	50.99	35.05	3.24						
	63 (17.2)				4.41		38.85	32.77	3.99		41.68	35.18	3.99		44.50	37.61	3.59		47.31	39.95	3.22						
	57 (13.9)				4.35		36.36	36.36	3.94		39.02	39.02	3.94		41.68	41.67	3.55		44.29	44.28	3.19						
	STAGE 3																										
	72 (22.2)				2.63		744	29.52	11.93		2.26	801	31.79		12.85	2.26	836		33.97	13.71	1.97	887	36.27	14.64	1.71	38.49	15.52
67 (19.4)			2.62	26.70	15.24	2.26		28.77	16.48	2.26	30.74		17.58	1.99	32.83	18.81		1.73	34.84	19.91	1.49						
63 (17.2)			2.61	24.60	17.81	2.26		26.53	19.31	2.26	28.35		20.58	2.00	30.28	22.01		1.75	32.13	23.32	1.52						
57 (13.9)			2.60	21.93	21.59	2.26		23.69	23.41	2.26	25.32		24.89	2.01	27.05	26.68		1.77	28.69	28.27	1.55						
72 (22.2)			2.63	744	29.44	15.28		2.26	801	31.71	16.52		2.26	836	33.88	17.61		1.97	887	36.18	18.82		1.71	38.40	19.95	1.45	
67 (19.4)			2.62		26.64	18.55	2.26	28.70		20.10	2.26	30.67	21.42		1.99	32.76	22.91	1.73		34.76	24.27	1.49					
63 (17.2)			2.61		24.58	21.11	2.26	26.51		22.90	2.26	28.33	24.38		2.00	30.27	26.13	1.75		32.11	27.66	1.52					
57 (13.9)			2.61		23.13	23.13	2.26	25.02		25.02	2.26	26.70	26.70		2.00	28.56	28.56	1.76		30.28	30.28	1.53					
STAGE 1																											
75 (23.9)	72 (22.2)	N/A				N/A			1.03	457	17.79	7.20	1.03	482	19.19	7.76	0.87	508	20.60	8.33	0.71	22.00	8.90	0.55			
	67 (19.4)								1.06		16.07	9.15	1.06		17.32	9.87	0.90		18.60	10.61	0.75	19.86	11.32	0.60			
	63 (17.2)								1.08		14.81	10.70	1.08		15.96	11.53	0.93		17.14	12.40	0.78	18.30	13.22	0.64			
	57 (13.9)								1.10		13.18	12.96	1.10		14.21	13.97	0.96		15.27	15.03	0.82	16.30	16.02	0.69			
	72 (22.2)								1.03		17.74	9.18	1.03		19.13	9.90	0.87		20.55	10.64	0.71	21.94	11.35	0.55			
80 (26.7)	67 (19.4)	N/A				N/A			1.06	457	16.03	11.13	1.06	482	17.27	11.99	0.90	508	18.55	12.90	0.75	19.81	13.76	0.60			
	63 (17.2)								1.08		14.78	12.67	1.08		15.95	13.65	0.93		17.13	14.68	0.78	19.29	15.64	0.64			
	57 (13.9)								1.09		13.90	13.90	1.09		14.98	14.98	0.94		16.11	16.11	0.80	17.19	17.19	0.67			
	STAGE 1																										
	72 (22.2)		N/A					N/A					457		17.79	7.20	1.03		482	19.19	7.76	0.87	508	20.60	8.33	0.71	22.00
67 (19.4)									1.06	16.07	9.15	1.06		17.32	9.87	0.90	18.60	10.61		0.75	19.86	11.32		0.60			
63 (17.2)							1.08	14.81	10.70	1.08	15.96	11.53	0.93	17.14	12.40	0.78	18.30	13.22	0.64								
57 (13.9)							1.10	13.18	12.96	1.10	14.21	13.97	0.96	15.27	15.03	0.82	16.30	16.02	0.69								
72 (22.2)							1.03	17.74	9.18	1.03	19.13	9.90	0.87	20.55	10.64	0.71	21.94	11.35	0.55								
67 (19.4)							1.06	16.03	11.13	1.06	17.27	11.99	0.90	18.55	12.90	0.75	19.81	13.76	0.60								
63 (17.2)							1.08	14.78	12.67	1.08	15.95	13.65	0.93	17.13	14.68	0.78	19.29	15.64	0.64								
57 (13.9)							1.09	13.90	13.90	1.09	14.98	14.98	0.94	16.11	16.11	0.80	17.19	17.19	0.67								

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

25VNA848

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4ANB006	1.01	1.01	
CAP**4817AL*	0.98	1.08	58CV(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	58CV(A.X)110-20
CAP**6021AL*	1.00	1.05	58CV(A.X)110-20
CNPV*4821AL*	0.98	1.02	58CV(A.X)110-20
CSPH*4812AL*	0.99	1.09	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
CSPH*4812AL*	0.99	1.09	58CV(A.X)135-22
CAP**4824AL*	0.98	1.11	58CV(A.X)135-22
CAP**6024AL*	1.00	1.02	58CV(A.X)155-22
CNPV*4824AL*	0.99	1.04	58CV(A.X)155-22
CSPH*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
CSPH*4812AL*	0.99	1.15	59*N*A080V21**20
CSPH*6012AL*	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
CSPH*4812AL*	0.99	1.09	59*N*A100V21**22
CSPH*6012AL*	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
CSPH*4812AL*	0.99	1.15	59*N*A120V24**22
CSPH*6012AL*	1.00	1.10	59*N*A120V24**22
CAP**4821AL*	0.97	1.06	59MN7A080V21**20
CAP**6021AL*	0.99	1.09	59MN7A080V21**20
CNPV*4821AL*	0.97	1.06	59MN7A080V21**20
CSPH*4812AL*	0.99	1.15	59MN7A080V21**20
CSPH*6012AL*	0.99	1.15	59MN7A080V21**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)005L	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
CNPV*4821AL*	0.99	1.04	0.99	1.02	58PH*090-16
CAP**6021AL*	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*110-20
CAP**4821AL*	0.97	1.01	0.99	1.02	58PH*110-20
CNPV*4821AL*	0.98	1.02	0.99	1.03	58PH*110-20
CSPH*4812AL*	0.98	1.05	1.01	1.02	58PH*110-20
CAP**4817AL*	0.97	1.08	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**4824AL*	0.97	1.01	0.98	1.02	58CTW090-16
CAP**6024AL*	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	58CTW110-22
CNPV*4821AL*	0.98	1.02	0.99	1.00	58CTW110-22
CAP**6021AL*	1.00	1.00	0.99	1.00	58CTW110-22
CNPV*4821AL*	0.98	1.02	0.99	1.01	58CTW110-22
CSPH*4812AL*	1.00	1.05	1.01	1.00	58CTW110-22
CSPH*6012AL*	1.00	1.05	1.01	1.00	58CTW110-22
CAP**4824AL*	0.97	1.01	0.98	1.00	58CTW135-22
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
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**4821AL*	0.98	1.02	0.98	1.01	59*P2A100E21**20
CAP**6021AL*	1.00	1.05	0.99	1.01	59*P2A100E21**20
CNPV*4821AL*	0.98	1.02	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*P5A080E17**16
CSPH*4812AL*	0.97	1.12	0.98	1.06	59*P5A080E17**16
CSPH*6012AL*	0.99	1.09	0.99	1.05	59*P5A080E17**16
CAP**4821AL*	0.97	1.01	0.99	1.08	59*P5A100E21**20
CAP**6021AL*	0.99	1.04	1.00	1.07	59*P5A100E21**20
CNPV*4821AL*	0.97	1.01	0.99	1.07	59*P5A100E21**20
CSPH*4812AL*	0.98	1.08	1.00	1.08	59*P5A100E21**20

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 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btu/h (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

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

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE

25VNA824 / FE4ANF005 HEATING EFFICIENCY MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																	
–3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)					
INDOOR AIR	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	
EDB ° F (° C)		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†		
STAGE 5																	
65 (18.3)	N/A				N/A				825			20.11	18.34	2.16	21.74	19.31	2.03
70 (21.1)										19.90	18.14	2.26	21.50	19.10	2.13		
75 (23.9)										19.71	17.97	2.36	21.27	18.89	2.22		
STAGE 3																	
65 (18.3)	N/A				340	9.46	8.69	1.44	500	11.26	10.27	1.36	650	12.98	11.53	1.21	
70 (21.1)						9.34	8.58	1.50		11.11	10.13	1.42		12.81	11.37	1.27	
75 (23.9)						9.23	8.49	1.55		10.96	10.00	1.48		12.63	11.22	1.34	
STAGE 1																	
65 (18.3)	N/A				N/A				N/A				N/A				
70 (21.1)																	
75 (23.9)																	
STAGE 5																	
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HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA824

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
*FE4AN(B,F)005L	1.00	1.00		FV4CN(B,F)003	0.84	0.92	0.77	0.82
FE4AN(B,F)003	1.00	1.02		FV4CNF002L	0.84	0.90	0.77	0.81
FE4ANF002L	1.04	1.06		CAP**2414AL*	0.84	0.92	1.05	1.12
CAP**3614AL*	1.03	1.06	58CV(A,X)070-12	CAP**3014AL*	0.84	0.92	1.03	1.09
CSPH*3612AL*	1.02	1.02	58CV(A,X)070-12	CAP**3614AL*	0.84	0.91	1.02	1.07
CSPH*4212AL*	1.01	1.01	56CV(A,X)070-12	CSPH*2412AL*	0.84	0.91	1.04	1.11
CAP**3617AL*	1.02	1.05	58CV(A,X)090-16	CSPH*3012AL*	0.84	0.88	1.04	1.08
CNPV*3617AL*	1.03	1.06	58CV(A,X)090-16	CSPH*3612AL*	0.84	0.88	1.02	1.05
CNPV*4217AL*	1.02	1.02	58CV(A,X)090-16	CAP**2414AL*	0.84	0.93	1.05	1.15
CSPH*3612AL*	1.02	1.02	58CV(A,X)090-16	CAP**3014AL*	0.84	0.93	1.02	1.11
CSPH*4212AL*	1.01	1.00	58CV(A,X)090-16	CAP**3614AL*	0.84	0.92	1.02	1.10
CAP**3617AL*	1.03	1.07	59*N*A080V17**14	CNPV*3014AL*	0.84	0.90	1.02	1.11
CNPV*3617AL*	1.04	1.08	59*N*A080V17**14	CSPH*2412AL*	0.84	0.92	1.04	1.13
CNPV*4217AL*	1.02	1.04	59*N*A080V17**14	CSPH*3012AL*	0.84	0.90	1.04	1.11
CSPH*3612AL*	1.02	1.03	59*N*A080V17**14	CSPH*3612AL*	0.84	0.89	1.02	1.08
CAP**3617AL*	1.03	1.06	59*N*A080V17**14	CAP**2417AL*	0.84	0.92	1.05	1.14
CNPV*3617AL*	1.04	1.08	59*N*A080V17**14	CAP**3017AL*	0.84	0.92	1.02	1.11
CNPV*4217AL*	1.02	1.04	59*N*A080V17**14	CAP**3617AL*	0.84	0.92	1.02	1.10
CSPH*3612AL*	1.02	1.04	59*N*A080V17**14	CNPV*3017AL*	0.84	0.93	1.02	1.11
CSPH*4212AL*	1.02	1.02	59*N*A080V17**14	CNPV*3617AL*	0.84	0.93	1.02	1.11
CNPV*3621AL*	1.04	1.07	59*N*A080V21**20	CNPV*4217AL*	0.84	0.90	1.02	1.09
CAP**3621AL*	1.03	1.06	59MN7A060V21**20	CSPH*2412AL*	0.84	0.92	1.04	1.15
CNPV*3621AL*	1.04	1.08	59MN7A060V21**20	CSPH*3012AL*	0.84	0.90	1.02	1.09
CNPV*4221AL*	1.03	1.06	59MN7A060V21**20	CAP**2414AL*	0.84	0.91	1.05	1.10
CSPH*3612AL*	1.02	1.04	59MN7A060V21**20	CAP**3014AL*	0.84	0.90	1.03	1.07
CSPH*4212AL*	1.02	1.02	59MN7A060V21**20	CAP**3614AL*	0.84	0.89	1.02	1.05
				CNPV*3014AL*	0.84	0.88	1.03	1.07
				CNPV*3614AL*	0.84	0.89	1.04	1.09
				CSPH*2412AL*	0.84	0.87	1.04	1.06
				CSPH*3012AL*	0.84	0.87	1.02	1.03
				CAP**2414AL*	0.84	0.92	1.05	1.16
				CAP**3014AL*	0.84	0.92	1.02	1.12
				CNPV*3014AL*	0.84	0.92	1.02	1.11
				CNPV*3614AL*	0.84	0.92	1.02	1.12
				CSPH*2412AL*	0.84	0.91	1.04	1.15
				CSPH*3012AL*	0.84	0.89	1.04	1.13
				CAP**2417AL*	0.84	0.89	1.02	1.10
				CAP**3017AL*	0.84	0.95	1.05	1.15
				CAP**3617AL*	0.84	0.94	1.02	1.11
				CNPV*3017AL*	0.84	0.93	1.02	1.10
				CNPV*3617AL*	0.84	0.95	1.02	1.11
				CNPV*4217AL*	0.84	0.94	1.02	1.09
				CSPH*2412AL*	0.84	0.92	1.04	1.15
				CSPH*3012AL*	0.84	0.92	1.02	1.12
				CSPH*3612AL*	0.84	0.92	1.02	1.09

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA825 / FE4ANF005 HEATING EFFICIENCY MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)													
–3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)	
INDOOR AIR	ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh	Total Sys KWh
EDB °F (°C)		Total	Integ†			Total	Integ†			Total	Integ†		
STAGE 5													
65 (18.3)	N/A				N/A				825			22.21	19.73
70 (21.1)												21.97	19.52
75 (23.9)	N/A				N/A				825			21.73	19.30
STAGE 3													
65 (18.3)						9.32	8.57	1.42		11.26	10.27	13.17	11.70
70 (21.1)	N/A				340	9.21	8.46	1.48		11.11	10.13	12.99	11.54
75 (23.9)						9.10	8.36	1.54		10.96	10.00	12.82	11.39
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
STAGE 3													
STAGE 1													
STAGE 5													
STAGE 3													
STAGE 1													
65 (18.3)		25.00	22.75	2.11		27.16	27.16	2.11		19.10	19.10	1.27	
70 (21.1)	825	24.69	22.46	2.21	825	26.80	26.80	2.21	N/A	18.78	18.78	1.35	
75 (23.9)		24.36	22.17	2.31		26.41	26.41	2.31		18.44	18.44	1.42	
STAGE 5													
STAGE 3													
STAGE 1													
65 (18.3)		15.11	13.75	1.25		17.04	17.04	1.25		9.05	9.05	0.42	
70 (21.1)	650	14.89	13.55	1.32	650	16.77	16.77	1.32	650	8.83	8.83	0.47	
75 (23.9)		14.67	13.35	1.39		16.51	16.51	1.40		8.62	8.62	0.52	
STAGE 5													
STAGE 3													
STAGE 1													
65 (18.3)					585	7.58	7.58	0.44	585	9.05	9.05	0.42	
70 (21.1)	N/A					7.40	7.40	0.48		8.83	8.83	0.47	
75 (23.9)						7.22	7.22	0.52		8.62	8.62	0.52	

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA825

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L	1.00	1.00	
FE4AN(B,F)003	1.04	1.07	
FE4ANF002L	1.08	1.10	
CAP**3614AL*	1.07	1.11	58CV(A,X)070-12
CSPH*3612AL*	1.06	1.07	58CV(A,X)070-12
CSPH*4212AL*	1.05	1.05	58CV(A,X)070-12
CAP**3617AL*	1.07	1.09	58CV(A,X)090-16
CNPV*3617AL*	1.06	1.10	58CV(A,X)090-16
CNPV*4217AL*	1.07	1.06	58CV(A,X)090-16
CSPH*3612AL*	1.08	1.06	58CV(A,X)090-16
CSPH*4212AL*	1.05	1.05	58CV(A,X)090-16
CAP**3617AL*	1.07	1.11	59*N*A060V17**14
CNPV*3617AL*	1.08	1.13	59*N*A060V17**14
CNPV*4217AL*	1.07	1.09	59*N*A060V17**14
CSPH*3612AL*	1.07	1.09	59*N*A060V17**14
CSPH*4212AL*	1.06	1.07	59*N*A060V17**14
CAP**3617AL*	1.07	1.11	59*N*A080V17**14
CNPV*3617AL*	1.08	1.12	59*N*A080V17**14
CNPV*4217AL*	1.07	1.08	59*N*A080V17**14
CSPH*3612AL*	1.07	1.08	59*N*A080V17**14
CSPH*4212AL*	1.06	1.07	59*N*A080V17**14
CNPV*3621AL*	1.08	1.11	59*N*A080V21**20
CAP**3621AL*	1.07	1.11	59MN7A060V21**20
CNPV*3621AL*	1.08	1.12	59MN7A060V21**20
CNPV*4221AL*	1.07	1.10	59MN7A060V21**20
CSPH*3612AL*	1.07	1.08	59MN7A060V21**20
CSPH*4212AL*	1.06	1.07	59MN7A060V21**20

2-STAGE (Hi-Stage 5, Lo-Stage 3)						
Heating Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FVACN(B,F)003	1.01	1.09	1.01	1.00		
FV4CNF002L	1.03	1.09	1.01	1.05		
CAP**2414AL*	1.05	1.14	1.05	1.10	58PH*045-08	
CAP**3014AL*	1.03	1.12	1.03	1.07	58PH*045-08	
CAP**3614AL*	1.03	1.10	1.02	1.05	58PH*045-08	
CSPH*2412AL*	1.05	1.12	1.04	1.09	58PH*045-08	
CSPH*3012AL*	1.05	1.09	1.04	1.07	58PH*045-08	
CSPH*3612AL*	1.03	1.06	1.02	1.04	58PH*045-08	
CAP**2414AL*	1.05	1.15	1.05	1.13	59*P2A040E14**10	
CAP**3014AL*	1.03	1.13	1.02	1.09	59*P2A040E14**10	
CAP**3614AL*	1.03	1.12	1.02	1.08	59*P2A040E14**10	
CNPV*3014AL*	1.05	1.11	1.02	1.09	59*P2A040E14**10	
CSPH*2412AL*	1.05	1.13	1.04	1.11	59*P2A040E14**10	
CSPH*3012AL*	1.04	1.10	1.04	1.09	59*P2A040E14**10	
CSPH*3612AL*	1.03	1.08	1.02	1.06	59*P2A040E14**10	
CAP**2417AL*	1.05	1.14	1.05	1.13	59*P2A040E17**12	
CAP**3017AL*	1.03	1.12	1.02	1.09	59*P2A040E17**12	
CAP**3617AL*	1.03	1.12	1.02	1.08	59*P2A040E17**12	
CNPV*3017AL*	1.03	1.14	1.02	1.09	59*P2A040E17**12	
CNPV*3617AL*	1.03	1.14	1.02	1.09	59*P2A040E17**12	
CNPV*4217AL*	1.03	1.09	1.02	1.06	59*P2A040E17**12	
CSPH*2412AL*	1.04	1.10	1.03	1.09	59*P2A040E17**12	
CSPH*3012AL*	1.03	1.09	1.02	1.07	59*P2A040E17**12	
CSPH*3612AL*	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	
CSPH*2412AL*	1.05	1.10	1.04	1.07	59*P2A060E14**12	
CSPH*3012AL*	1.05	1.08	1.04	1.05	59*P2A060E14**12	
CSPH*3612AL*	1.03	1.06	1.02	1.01	59*P2A060E14**12	
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	
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 44

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA836 / FE4ANF005 HEATING EFFICIENCY MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)												
–3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)
INDOOR AIR	ID SCFM	Capacity MBtuh		Total Sys KWh†	ID SCFM	Capacity MBtuh		Total Sys KWh†	ID SCFM	Capacity MBtuh		Total Sys KWh†
EDB ° F (° C)		Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5												
65 (18.3)	N/A				N/A				1200			
70 (21.1)								23.19		21.15	2.51	
75 (23.9)								23.00		20.97	2.61	
								22.80	20.79	2.72		
STAGE 3												
65 (18.3)	N/A				360				500			
70 (21.1)						10.11	9.29	1.52		12.21	11.13	1.49
75 (23.9)						9.99	9.18	1.58		12.06	10.99	1.56
						10.04	9.22	1.53	11.65	10.62	1.78	
STAGE 1												
65 (18.3)	N/A				N/A				N/A			
70 (21.1)												
75 (23.9)												
STAGE 5												
65 (18.3)	1142	30.62	27.87	2.60	1200	34.60	34.60	2.69	N/A			
70 (21.1)		30.29	27.56	2.72		34.20	34.20	2.82				
75 (23.9)		29.94	27.24	2.84		33.79	33.79	2.94				
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
70 (21.1)	900	16.79	15.28	1.42	900	19.17	19.17	1.44	900	21.81	21.81	1.47
75 (23.9)		16.57	15.08	1.50		18.89	18.89	1.52		21.45	21.45	1.56
STAGE 1												
65 (18.3)	N/A				700	7.88	7.88	0.44	700			
70 (21.1)						7.70	7.70	0.49		9.16	9.16	0.42
75 (23.9)						7.52	7.52	0.53		8.95	8.95	0.47
										8.74	8.74	0.52

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HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA836

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
CNPV*4821AL*	1.02	1.03	59*N*A080V21**20
CSPH*3612AL*	1.02	1.05	59*N*A080V21**20
CSPH*4212AL*	1.02	1.04	59*N*A080V21**20
CSPH*4812AL*	1.02	1.03	59*N*A080V21**20
CAP**3621AL*	1.04	1.08	59*N*A100V21**22
CAP**4221AL*	1.04	1.07	59*N*A100V21**22
CAP**4821AL*	1.01	1.02	59*N*A100V21**22
CNPV*3621AL*	1.05	1.11	59*N*A100V21**22
CNPV*4221AL*	1.02	1.07	59*N*A100V21**22
CNPV*4821AL*	1.02	1.03	59*N*A100V21**22
CSPH*3612AL*	1.02	1.04	59*N*A100V21**22
CSPH*4212AL*	1.02	1.03	59*N*A100V21**22
CSPH*4812AL*	1.02	1.02	59*N*A100V21**22
CAP**4224AL*	1.04	1.07	59*N*A120V24**22
CAP**4824AL*	1.02	1.03	59*N*A120V24**22
CNPV*4824AL*	1.02	1.03	59*N*A120V24**22
CSPH*3612AL*	1.02	1.05	59*N*A120V24**22
CSPH*4212AL*	1.02	1.04	59*N*A120V24**22
CSPH*4812AL*	1.02	1.03	59*N*A120V24**22
CAP**3621AL*	1.04	1.10	59MN7A060V21**20
CAP**4221AL*	1.04	1.09	59MN7A060V21**20
CAP**4821AL*	1.02	1.05	59MN7A060V21**20
CNPV*3621AL*	1.05	1.13	59MN7A060V21**20
CNPV*4221AL*	1.05	1.10	59MN7A060V21**20
CNPV*4821AL*	1.02	1.05	59MN7A060V21**20
CSPH*3612AL*	1.04	1.07	59MN7A060V21**20
CSPH*4212AL*	1.02	1.05	59MN7A060V21**20
CSPH*4812AL*	1.02	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	
FV4CN(B,F)003	1.01	1.06	1.01	1.05	
FV4CNF002L	1.04	1.08	1.04	1.08	
CAP**3614AL*	1.04	1.13	1.03	1.12	58PH*045-08
CSPH*3612AL*	1.04	1.08	1.02	1.09	58PH*045-08
CSPH*4212AL*	1.04	1.07	1.02	1.07	58PH*045-08
CSPH*4812AL*	1.04	1.07	1.02	1.06	58PH*045-08
CNPV*4217AL*	1.03	1.06	1.02	1.06	58CTW070-16
CAP**3617AL*	1.04	1.13	1.05	1.13	59*P2A040E17**12
CAP**4817AL*	1.02	1.07	1.01	1.07	59*P2A040E17**12
CNPV*3617AL*	1.04	1.14	1.03	1.13	59*P2A040E17**12
CNPV*4217AL*	1.04	1.10	1.03	1.10	59*P2A040E17**12
CSPH*3612AL*	1.04	1.10	1.03	1.10	59*P2A040E17**12
CSPH*4212AL*	1.04	1.08	1.03	1.10	59*P2A040E17**12
CSPH*4812AL*	1.04	1.08	1.02	1.08	59*P2A040E17**12
CAP**3614AL*	1.03	1.10	1.03	1.10	59*P2A060E14**12
CSPH*3612AL*	1.03	1.08	1.03	1.07	59*P2A060E14**12
CSPH*4212AL*	1.03	1.05	1.03	1.06	59*P2A060E14**12
CSPH*4812AL*	1.03	1.05	1.02	1.04	59*P2A060E14**12
CAP**3617AL*	1.03	1.08	1.02	1.08	59*P2A060E17**14
CAP**4817AL*	1.01	1.02	1.00	1.03	59*P2A060E17**14
CNPV*3617AL*	1.03	1.10	1.02	1.09	59*P2A060E17**14
CNPV*4217AL*	1.02	1.05	1.02	1.06	59*P2A060E17**14
CSPH*3612AL*	1.03	1.05	1.02	1.06	59*P2A060E17**14
CSPH*4212AL*	1.02	1.04	1.02	1.05	59*P2A060E17**14
CSPH*4812AL*	1.02	1.03	1.02	1.04	59*P2A060E17**14
CAP**3617AL*	1.02	1.08	1.02	1.08	59*P2A080E17**16
CAP**4817AL*	1.01	1.01	1.00	1.03	59*P2A080E17**16
CNPV*3617AL*	1.03	1.10	1.02	1.09	59*P2A080E17**16
CNPV*4217AL*	1.02	1.05	1.02	1.06	59*P2A080E17**16
CSPH*3612AL*	1.02	1.05	1.02	1.07	59*P2A080E17**16
CSPH*4212AL*	1.02	1.03	1.02	1.06	59*P2A080E17**16
CSPH*4812AL*	1.02	1.02	1.02	1.04	59*P2A080E17**16
CNPV*4217AL*	1.05	1.13	1.05	1.12	59*P5A040E17**12
CSPH*3612AL*	1.05	1.12	1.05	1.12	59*P5A040E17**12
CAP**3614AL*	1.05	1.16	1.03	1.13	59*P5A060E14**12
CSPH*3612AL*	1.05	1.12	1.03	1.11	59*P5A060E14**12
CSPH*4212AL*	1.05	1.11	1.03	1.10	59*P5A060E14**12
CSPH*4812AL*	1.04	1.10	1.03	1.09	59*P5A060E14**12
CAP**3617AL*	1.04	1.11	1.02	1.10	59*P5A060E17**14
CAP**4817AL*	1.01	1.04	1.00	1.05	59*P5A060E17**14
CNPV*3617AL*	1.04	1.12	1.03	1.12	59*P5A060E17**14
CNPV*4217AL*	1.03	1.08	1.02	1.08	59*P5A060E17**14
CSPH*3612AL*	1.03	1.07	1.02	1.08	59*P5A060E17**14
CSPH*4212AL*	1.03	1.06	1.02	1.07	59*P5A060E17**14
CSPH*4812AL*	1.03	1.05	1.02	1.06	59*P5A060E17**14

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA848 / FE4ANF005 HEATING EFFICIENCY MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)													
–3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)	
INDOOR AIR	ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh	Total Sys KWh
EDB ° F (° C)		Total	Integ†			Total	Integ†			Total	Integ†		
STAGE 5													
65 (18.3)	N/A				N/A				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	N/A				600				700			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)	N/A				N/A				N/A				
70 (21.1)													
75 (23.9)													
STAGE 5													
65 (18.3)	1600				1600				1600			35.58	32.44
70 (21.1)										35.20	32.09		
75 (23.9)										34.74	31.67		
STAGE 3													
65 (18.3)	1275				1275				1275			20.55	18.74
70 (21.1)										20.28	18.49		
75 (23.9)										19.96	18.20		
STAGE 1													
65 (18.3)													

HEAT PUMP HEATING PERFORMANCE - EFFICIENCY MODE CONTINUED

25VNA848

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
*FE4AN(B,F)005L FE4ANB006	1.00 0.99	1.00 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*	1.03	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
CSPH*4812AL*	1.03	1.01	58CV(A,X)135-22
CAP**4821AL*	1.05	1.03	58CV(A,X)155-22
CSPH*6012AL*	1.02	0.99	58CV(A,X)155-22
CAP**4824AL*	1.01	0.99	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	1.05	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*	1.01	1.01	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
CNPV*6024AL*	1.03	1.03	59"N*A120V24**22
CSPH*4812AL*	1.05	1.04	59"N*A120V24**22
CSPH*6012AL*	1.03	1.01	59"N*A120V24**22
CAP**4821AL*	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	1.08	59MN7A060V21**20
CSPH*6012AL*	1.04	1.05	59MN7A060V21**20

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
CNPV*4821AL*	1.03	1.04	0.99	1.00	58PH*090-16
CSPH*4812AL*	1.06	1.07	1.02	1.03	58PH*090-16
CSPH*6012AL*	1.05	1.04	1.01	1.01	58PH*090-16
CAP**4821AL*	1.05	1.07	1.02	1.03	58PH*110-20
CNPV*4821AL*	1.03	1.04	1.00	1.00	58PH*110-20
CSPH*4812AL*	1.06	1.07	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
CNPV*4821AL*	1.03	1.04	0.99	1.00	58CTW090-16
CSPH*4812AL*	1.06	1.07	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*	1.03	1.03	0.99	0.99	58CTW110-22
CSPH*4812AL*	1.06	1.06	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
CNPV*4824AL*	1.03	1.03	0.99	0.99	58CTW135-22
CSPH*4812AL*	1.05	1.05	1.02	1.03	58CTW135-22
CSPH*6012AL*	1.04	1.03	1.00	1.00	58CTW135-22
CAP**6024AL*	1.04	1.04	1.02	1.03	58CTW135-22
CNPV*6024AL*	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	1.03	59"P2A080E21**20
CNPV*4821AL*	1.04	1.04	0.99	1.00	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**4821AL*	1.05	1.03	1.01	1.00	59"P2A080E21**20
CNPV*4821AL*	1.04	1.04	0.99	1.00	59"P2A100E21**20
CSPH*4812AL*	1.06	1.06	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
CNPV*4824AL*	1.04	1.04	1.00	1.01	59"P2A120E24**20
CSPH*4812AL*	1.06	1.06	1.02	1.04	59"P2A120E24**20
CSPH*6024AL*	1.05	1.04	1.01	1.01	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

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
CNPV*4821AL*	1.03	1.05	1.00	1.01	59"P5A100E21**20
CSPH*4812AL*	1.06	1.07	1.03	1.04	59"P5A100E21**20
CSPH*6012AL*	1.06	1.07	1.03	1.04	59"P5A100E21**20

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE

25VNA824 / FE4ANB006 HEATING COMFORT MODE -- OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																	
INDOOR AIR		-3 (-19.4)			7 (-13.9)			17 (-8.3)			27 (-2.8)						
EDB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		ID SCFM	Capacity MBtuh		Total Sys KW†		
		Total	Integ†			Total	Integ†			Total	Integ†		Total	Integ†			
STAGE 5																	
65 (18.3)	N/A				N/A				523			622			2.40		
70 (21.1)																	
75 (23.9)																	
STAGE 3																	
65 (18.3)	N/A	0.00	0.00	0.00	338	9.45	8.69	1.44	384	11.03	10.06	449	12.59	11.18	1.33		
70 (21.1)		0.00	0.00	0.00		9.33	8.58	1.50		10.89	9.93		1.51	12.39	11.01	1.39	
75 (23.9)		0.00	0.00	0.00		9.21	8.47	1.56		10.74	9.79		1.58	12.20	10.84	1.46	
STAGE 1 -- FE4ANF005 ONLY																	
65 (18.3)	N/A				N/A				N/A			N/A					
70 (21.1)																	
75 (23.9)																	
STAGE 1 -- ALL OTHER COILS																	
65 (18.3)	N/A				N/A				N/A			N/A					
70 (21.1)																	
75 (23.9)																	
STAGE 5																	
65 (18.3)	721	23.60	21.47	2.09	819	25.55	25.55	1.98	N/A			N/A					
70 (21.1)		23.29	21.20	2.19		25.12	25.12	2.07									
75 (23.9)		22.99	20.92	2.28		24.77	24.77	2.16									
STAGE 3																	
65 (18.3)	514	14.33	13.04	1.31	579	16.09	16.09	1.25	605	17.81	17.81	605	17.81	17.81	1.23		
70 (21.1)		14.13	12.86	1.37		15.83	15.83	1.32		17.52	17.52		1.31				
75 (23.9)		13.93	12.67	1.44		15.56	15.56	1.39		17.17	17.17		1.38				
STAGE 1 -- FE4ANF005 ONLY																	
65 (18.3)	N/A				250	6.73	6.73	0.61	261	8.01	8.01	261	8.01	8.01	0.62		
70 (21.1)						6.54	6.54	0.64		7.82	7.82		0.67				
75 (23.9)						6.37	6.37	0.68		7.61	7.61		0.71				
STAGE 1 -- ALL OTHER COILS																	
65 (18.3)	N/A				243	6.67	6.67	0.61	261	8.01	8.01	261	8.01	8.01	0.62		
70 (21.1)						6.50	6.50	0.65		7.81	7.81		0.67				
75 (23.9)						6.32	6.32	0.69		7.60	7.60		0.71				

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA824

2-STAGE (Hi-Stage 5, Lo-Stage 3)									
Heating Indoor Model				High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
FV4CN(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	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*3617AL*				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	0.92	1.04	1.15	59*P2A040E17**12	
CSPH*3012AL*				0.84	0.90	1.03	1.11	59*P2A040E17**12	
CSPH*3612AL*				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	
CSPH*2412AL*				0.84	0.89	1.04	1.09	59*P2A060E14**12	
CSPH*3012AL*				0.84	0.87	1.04	1.08	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	
CSPH*2412AL*				0.84	0.91	1.04	1.15	59*P5A040E14**10	
CSPH*3012AL*				0.84	0.89	1.04	1.13	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	0.92	1.02	1.09	59*P5A040E17**12	
CNPV*4217AL*				0.84	0.94	1.04	1.15	59*P5A040E17**12	
CSPH*2412AL*				0.84	0.92	1.04	1.12	59*P5A040E17**12	
CSPH*3012AL*				0.84	0.92	1.02	1.09	59*P5A040E17**12	

FURNACE MODEL		
*FE4AN(B,F)005L	1.00	1.00
FE4AN(B,F)003	1.00	1.02
FE4ANF002L	1.04	1.06
CAP**3614AL*	1.03	1.06
CSPH*3612AL*	1.02	1.02
CSPH*4212AL*	1.01	1.01
CAP**3617AL*	1.02	1.05
CNPV*3617AL*	1.03	1.06
CNPV*4217AL*	1.02	1.02
CSPH*3612AL*	1.02	1.02
CSPH*4212AL*	1.01	1.00
CAP**3617AL*	1.03	1.07
CNPV*3617AL*	1.04	1.08
CNPV*4217AL*	1.02	1.04
CSPH*3612AL*	1.02	1.04
CSPH*4212AL*	1.02	1.03
CAP**3617AL*	1.03	1.06
CNPV*3617AL*	1.04	1.08
CNPV*4217AL*	1.02	1.04
CSPH*3612AL*	1.02	1.04
CSPH*4212AL*	1.02	1.02
CNPV*3621AL*	1.04	1.07
CAP**3621AL*	1.03	1.06
CNPV*4060V21**20	1.03	1.06
CNPV*3621AL*	1.04	1.08
CNPV*4221AL*	1.03	1.06
CSPH*3612AL*	1.02	1.04
CSPH*4212AL*	1.02	1.02

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA825 / FE4ANF005 HEATING COMFORT MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)															
-3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)			
INDOOR AIR		ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh	ID SCFM	Capacity MBtuh		Total Sys KWh		
EDB °F (°C)			Total	Integ†			Total	Integ†			Total	Integ†	Total	Integ†	
STAGE 5															
65 (18.3)	N/A					N/A				523		19.53	17.81	2.40	
70 (21.1)									19.33		17.62	2.49			
75 (23.9)									19.12		17.43	2.59			
STAGE 3															
65 (18.3)	N/A					338	9.32	8.56	1.43	384	11.03	10.06	1.45		
70 (21.1)								9.20	8.46		1.48	10.89	9.93	1.51	
75 (23.9)								9.08	8.35		1.54	10.74	9.79	1.58	
STAGE 1 – FE4ANF005 ONLY															
65 (18.3)	N/A					N/A				N/A					
70 (21.1)															
75 (23.9)															
STAGE 1 – ALL OTHER COILS															
65 (18.3)	N/A					N/A				N/A					
70 (21.1)															
75 (23.9)															
STAGE 5															
65 (18.3)	721	24.68	22.46	2.19	819	27.39	27.39	2.12	N/A						
70 (21.1)		24.36	22.16	2.29		26.93	26.93	2.22							
75 (23.9)		24.04	21.87	2.39		26.55	26.55	2.32							
STAGE 3															
65 (18.3)	514	14.76	13.43	1.34	579	16.82	16.82	1.30	605	18.91	18.91	1.31			
70 (21.1)		14.55	13.24	1.41		16.55	16.55	1.37		18.59	18.59	1.38			
75 (23.9)		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)	N/A				250	6.73	6.73	0.61	261	8.01	8.01	0.62			
70 (21.1)						6.54	6.54	0.64		7.82	7.82	0.67			
75 (23.9)						6.37	6.37	0.68		7.61	7.61	0.71			
STAGE 1 – ALL OTHER COILS															
65 (18.3)	N/A				243	6.67	6.67	0.61	261	8.01	8.01	0.62			
70 (21.1)						6.50	6.50	0.65		7.81	7.81	0.67			
75 (23.9)						6.32	6.32	0.69		7.60	7.60	0.71			

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT 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
*FE4AN(B,F)005L	1.00	1.00						
FE4AN(B,F)003	1.04	1.07						
FE4ANF002L	1.08	1.10						
CAP**3614AL*	1.07	1.11	58CV(A,X)070-12	FV4CN(B,F)003	1.01	1.09	1.01	1.00
CSPH*3612AL*	1.06	1.07	58CV(A,X)070-12	FV4CNF002L	1.03	1.09	1.01	1.05
CSPH*4212AL*	1.05	1.05	58CV(A,X)070-12	CAP**2414AL*	1.05	1.14	1.05	1.10
CAP**3617AL*	1.07	1.09	58CV(A,X)090-16	CAP**3014AL*	1.03	1.12	1.03	1.07
CNPV*3617AL*	1.06	1.06	58CV(A,X)090-16	CAP**3614AL*	1.03	1.10	1.02	1.05
CSPH*3612AL*	1.08	1.06	58CV(A,X)090-16	CSPH*2412AL*	1.05	1.12	1.04	1.09
CSPH*4212AL*	1.05	1.05	58CV(A,X)090-16	CSPH*3012AL*	1.05	1.09	1.04	1.07
CAP**3617AL*	1.07	1.11	59*N*A080V17**14	CSPH*3612AL*	1.03	1.06	1.02	1.04
CNPV*3617AL*	1.08	1.13	59*N*A080V17**14	CAP**2414AL*	1.05	1.15	1.05	1.13
CNPV*4217AL*	1.07	1.09	59*N*A080V17**14	CAP**2414AL*	1.05	1.15	1.05	1.13
CSPH*3612AL*	1.07	1.08	59*N*A080V17**14	CSPH*3012AL*	1.03	1.13	1.02	1.09
CSPH*4212AL*	1.06	1.07	59*N*A080V17**14	CAP**3017AL*	1.05	1.14	1.05	1.13
CAP**3617AL*	1.08	1.12	59*N*A080V17**14	CAP**2417AL*	1.03	1.12	1.02	1.08
CNPV*4217AL*	1.07	1.08	59*N*A080V17**14	CSPH*3617AL*	1.03	1.12	1.02	1.08
CSPH*3612AL*	1.07	1.08	59*N*A080V17**14	CNPV*3017AL*	1.03	1.14	1.02	1.09
CSPH*4212AL*	1.06	1.07	59*N*A080V17**14	CNPV*3617AL*	1.03	1.12	1.02	1.09
CAP**3621AL*	1.07	1.11	59MN7A060V21**20	CNPV*4217AL*	1.03	1.16	1.02	1.07
CNPV*3621AL*	1.08	1.12	59MN7A060V21**20	CSPH*2412AL*	1.05	1.12	1.05	1.08
CNPV*4221AL*	1.07	1.10	59MN7A060V21**20	CAP**3014AL*	1.03	1.10	1.03	1.05
CSPH*3612AL*	1.07	1.06	59MN7A060V21**20	CAP**3614AL*	1.03	1.10	1.03	1.05
CSPH*4212AL*	1.06	1.07	59MN7A060V21**20	CNPV*3014AL*	1.03	1.09	1.02	1.03
				CSPH*2412AL*	1.05	1.08	1.03	1.05
				CSPH*3012AL*	1.05	1.10	1.04	1.07
				CSPH*3612AL*	1.05	1.08	1.04	1.05
				CAP**2414AL*	1.03	1.06	1.02	1.01
				CAP**3014AL*	1.07	1.16	1.05	1.14
				CAP**3614AL*	1.05	1.14	1.02	1.11
				CNPV*3014AL*	1.04	1.12	1.02	1.09
				CSPH*2412AL*	1.05	1.14	1.02	1.11
				CSPH*3012AL*	1.06	1.13	1.04	1.13
				CSPH*3612AL*	1.05	1.10	1.04	1.11
				CAP**2417AL*	1.05	1.17	1.05	1.13
				CAP**3017AL*	1.03	1.14	1.02	1.09
				CNPV*3017AL*	1.03	1.16	1.02	1.09
				CNPV*3617AL*	1.03	1.16	1.02	1.09
				CNPV*4217AL*	1.03	1.12	1.02	1.07
				CSPH*2412AL*	1.05	1.16	1.04	1.13
				CSPH*3012AL*	1.04	1.13	1.04	1.10
				CSPH*3612AL*	1.03	1.11	1.02	1.07

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA836 / FE4ANF005 HEATING COMFORT MODE – OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																		
-3 (–19.4)				7 (–13.9)				17 (–8.3)				27 (–2.8)						
INDOOR AIR		ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	Capacity MBtuh		Total Sys KW†		
EDB °F (°C)			Total	Integ†			Total	Integ†			Total	Integ†		Total	Integ†			
STAGE 5																		
65 (18.3)		N/A				N/A				595				734				
70 (21.1)																		
75 (23.9)																		
STAGE 3																		
65 (18.3)		N/A				277				325				425				
70 (21.1)																		
75 (23.9)																		
STAGE 1 – FE4ANF005 ONLY																		
65 (18.3)		N/A				N/A				N/A				N/A				
70 (21.1)																		
75 (23.9)																		
STAGE 1 – ALL OTHER COILS																		
65 (18.3)		N/A				N/A				N/A				N/A				
70 (21.1)																		
75 (23.9)																		
STAGE 5																		
65 (18.3)		874				1014				N/A				N/A				
70 (21.1)																		
75 (23.9)																		
STAGE 3																		
65 (18.3)		526				626				737				737				
70 (21.1)																		
75 (23.9)																		
STAGE 1 – FE4ANF005 ONLY																		
65 (18.3)		N/A				250				250				250				
70 (21.1)																		
75 (23.9)																		
STAGE 1 – ALL OTHER COILS																		
65 (18.3)		N/A				199				217				217				
70 (21.1)																		
75 (23.9)																		

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA836

HEATING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
CNPV*4821AL*	1.02	1.03	59*N*A080V21**20
CSPH*3612AL*	1.02	1.05	59*N*A080V21**20
CSPH*4212AL*	1.02	1.04	59*N*A080V21**20
CSPH*4812AL*	1.02	1.03	59*N*A080V21**20
CAP**3621AL*	1.04	1.08	59*N*A100V21**22
CAP**4221AL*	1.04	1.07	59*N*A100V21**22
CAP**4821AL*	1.01	1.02	59*N*A100V21**22
CNPV*3621AL*	1.05	1.11	59*N*A100V21**22
CNPV*4221AL*	1.02	1.07	59*N*A100V21**22
CNPV*4821AL*	1.02	1.03	59*N*A100V21**22
CSPH*3612AL*	1.02	1.04	59*N*A100V21**22
CSPH*4212AL*	1.02	1.03	59*N*A100V21**22
CSPH*4812AL*	1.02	1.02	59*N*A100V21**22
CAP**4224AL*	1.04	1.07	59*N*A120V24**22
CAP**4824AL*	1.02	1.03	59*N*A120V24**22
CNPV*4824AL*	1.02	1.03	59*N*A120V24**22
CSPH*3612AL*	1.02	1.05	59*N*A120V24**22
CSPH*4212AL*	1.02	1.04	59*N*A120V24**22
CSPH*4812AL*	1.02	1.03	59*N*A120V24**22
CAP**3621AL*	1.04	1.10	59MN7A060V21**20
CAP**4221AL*	1.04	1.09	59MN7A060V21**20
CAP**4821AL*	1.02	1.05	59MN7A060V21**20
CNPV*3621AL*	1.05	1.13	59MN7A060V21**20
CNPV*4221AL*	1.05	1.10	59MN7A060V21**20
CNPV*4821AL*	1.02	1.05	59MN7A060V21**20
CSPH*3612AL*	1.04	1.07	59MN7A060V21**20
CSPH*4212AL*	1.02	1.05	59MN7A060V21**20
CSPH*4812AL*	1.02	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	
FV4CN(B,F)003	1.01	1.06	1.01	1.05	
FV4CNF002L	1.04	1.08	1.04	1.08	
CAP**3614AL*	1.04	1.13	1.03	1.12	58PH*045-08
CSPH*3612AL*	1.04	1.08	1.02	1.09	58PH*045-08
CSPH*4212AL*	1.04	1.07	1.02	1.07	58PH*045-08
CSPH*4812AL*	1.04	1.07	1.02	1.06	58PH*045-08
CNPV*4217AL*	1.03	1.06	1.02	1.06	58CTW070-16
CAP**3617AL*	1.04	1.13	1.05	1.13	59*P2A040E17**12
CAP**4817AL*	1.02	1.07	1.01	1.07	59*P2A040E17**12
CNPV*3617AL*	1.04	1.14	1.03	1.13	59*P2A040E17**12
CNPV*4217AL*	1.04	1.10	1.03	1.10	59*P2A040E17**12
CSPH*3612AL*	1.04	1.10	1.03	1.10	59*P2A040E17**12
CSPH*4212AL*	1.04	1.08	1.03	1.10	59*P2A040E17**12
CSPH*4812AL*	1.04	1.08	1.02	1.08	59*P2A040E17**12
CAP**3614AL*	1.03	1.10	1.03	1.10	59*P2A060E14**12
CSPH*3612AL*	1.03	1.08	1.03	1.07	59*P2A060E14**12
CSPH*4212AL*	1.03	1.05	1.03	1.06	59*P2A060E14**12
CSPH*4812AL*	1.03	1.05	1.02	1.04	59*P2A060E14**12
CAP**3617AL*	1.03	1.08	1.02	1.08	59*P2A060E17**14
CAP**4817AL*	1.01	1.02	1.00	1.03	59*P2A060E17**14
CNPV*3617AL*	1.03	1.10	1.02	1.09	59*P2A060E17**14
CNPV*4217AL*	1.02	1.05	1.02	1.06	59*P2A060E17**14
CSPH*3612AL*	1.03	1.05	1.02	1.06	59*P2A060E17**14
CSPH*4212AL*	1.02	1.04	1.02	1.05	59*P2A060E17**14
CSPH*4812AL*	1.02	1.03	1.02	1.04	59*P2A060E17**14
CAP**3617AL*	1.02	1.08	1.02	1.08	59*P2A080E17**16
CAP**4817AL*	1.01	1.01	1.00	1.03	59*P2A080E17**16
CNPV*3617AL*	1.03	1.10	1.02	1.09	59*P2A080E17**16
CNPV*4217AL*	1.02	1.05	1.02	1.06	59*P2A080E17**16
CSPH*3612AL*	1.02	1.05	1.02	1.07	59*P2A080E17**16
CSPH*4212AL*	1.02	1.03	1.02	1.06	59*P2A080E17**16
CSPH*4812AL*	1.02	1.02	1.02	1.04	59*P2A080E17**16
CNPV*4217AL*	1.05	1.13	1.05	1.12	59*P5A040E17**12
CSPH*3612AL*	1.05	1.12	1.05	1.12	59*P5A040E17**12
CAP**3614AL*	1.05	1.16	1.03	1.13	59*P5A060E14**12
CSPH*3612AL*	1.05	1.12	1.03	1.11	59*P5A060E14**12
CSPH*4212AL*	1.05	1.11	1.03	1.10	59*P5A060E14**12
CSPH*4812AL*	1.04	1.10	1.03	1.09	59*P5A060E14**12
CAP**3617AL*	1.04	1.11	1.02	1.10	59*P5A060E17**14
CAP**4817AL*	1.01	1.04	1.00	1.05	59*P5A060E17**14
CNPV*3617AL*	1.04	1.12	1.03	1.12	59*P5A060E17**14
CNPV*4217AL*	1.03	1.08	1.02	1.08	59*P5A060E17**14
CSPH*3612AL*	1.03	1.07	1.02	1.08	59*P5A060E17**14
CSPH*4212AL*	1.03	1.06	1.02	1.07	59*P5A060E17**14
CSPH*4812AL*	1.03	1.05	1.02	1.06	59*P5A060E17**14

See notes on page 44

HEAT PUMP HEATING PERFORMANCE - COMFORT MODE CONTINUED

25VNA848 / FE4ANB006 HEATING COMFORT MODE -- OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																
INDOOR AIR		-3 (-19.4)				7 (-13.9)				17 (-8.3)				27 (-2.8)		
EDB ° 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†
		Total	Integ†			Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5																
65 (18.3)	N/A				N/A				934				1139			
70 (21.1)																
75 (23.9)																
STAGE 3																
65 (18.3)	N/A				450				633				723			
70 (21.1)																
75 (23.9)																
STAGE 1																
65 (18.3)	N/A				N/A				N/A				N/A			
70 (21.1)																
75 (23.9)																

INDOOR AIR			37 (2.8)			47(8.3)			57 (13.9)			
EDB ° F (° C)	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†	ID SCFM	Capacity MBtuh		Total Sys KW†
		Total	Integ†			Total	Integ†			Total	Integ†	
STAGE 5												
65 (18.3)	1344	45.56	41.46	4.00	1550	50.90	50.90	4.12	N/A			
70 (21.1)		45.09	41.03	4.16		50.36	50.36	4.29				
75 (23.9)		44.60	40.58	4.32		49.82	49.82	4.47				
STAGE 3												
65 (18.3)	814	27.39	24.93	2.39	905	31.24	31.24	2.45	996	35.10	35.10	2.49
70 (21.1)		27.09	24.65	2.51		30.85	30.85	2.57		34.64	34.64	2.61
75 (23.9)		26.77	24.36	2.62		30.47	30.47	2.69		34.15	34.15	2.73
STAGE 1												
65 (18.3)	N/A				350	15.28	15.28	1.20	403	17.49	17.49	1.16
70 (21.1)						15.01	15.01	1.27		17.23	17.23	1.24
75 (23.9)						14.73	14.73	1.33		16.90	16.90	1.31

See notes on page 44

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*4812AL*	1.03	1.01	58CV(A.X)090-16
CAP**6012AL*	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)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*	1.03	1.01	59*N*A100V21**22
CAP**4821AL*	1.04	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
CNPV*6024AL*	1.03	1.03	59*N*A120V24**22
CSPH*4812AL*	1.05	1.04	59*N*A120V24**22
CSPH*6012AL*	1.03	1.01	59*N*A120V24**22
CAP**4821AL*	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	1.08	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.	Furnace Model
FV4CNB006	1.00	0.99	0.98	
CAP**4817AL*	1.06	1.10	1.02	58PH*070-16
CSPH*4812AL*	1.07	1.10	1.03	58PH*070-16
CSPH*6012AL*	1.06	1.08	1.01	58PH*070-16
CAP**4821AL*	1.05	1.07	1.01	58PH*090-16
CAP**6021AL*	1.03	1.04	0.99	58PH*090-16
CNPV*4821AL*	1.06	1.07	1.02	58PH*090-16
CSPH*4812AL*	1.06	1.07	1.02	58PH*090-16
CSPH*6012AL*	1.05	1.04	1.01	58PH*090-16
CAP**4821AL*	1.05	1.07	1.02	58PH*110-20
CAP**6021AL*	1.03	1.04	1.00	58PH*110-20
CNPV*4821AL*	1.06	1.07	1.02	58PH*110-20
CSPH*4812AL*	1.06	1.08	1.02	58PH*110-20
CSPH*6012AL*	1.04	1.02	1.01	58PH*110-20
CAP**4817AL*	1.05	1.07	1.01	58CTW070-16
CSPH*4812AL*	1.06	1.08	1.02	58CTW070-16
CSPH*6012AL*	1.05	1.05	1.01	58CTW070-16
CAP**4821AL*	1.05	1.07	1.01	58CTW090-16
CAP**6021AL*	1.03	1.04	0.99	58CTW090-16
CNPV*4821AL*	1.06	1.07	1.02	58CTW090-16
CSPH*4812AL*	1.06	1.07	1.02	58CTW090-16
CSPH*6012AL*	1.06	1.06	1.02	58CTW090-16
CSPH*6012AL*	1.04	1.03	1.00	58CTW090-16
CAP**4821AL*	1.04	1.05	1.01	58CTW110-22
CAP**6021AL*	1.03	1.03	0.99	58CTW110-22
CNPV*4821AL*	1.06	1.08	1.02	58CTW110-22
CSPH*4812AL*	1.06	1.05	1.02	58CTW110-22
CSPH*6012AL*	1.04	1.02	1.00	58CTW110-22
CAP**4824AL*	1.04	1.05	1.01	58CTW135-22
CAP**6024AL*	1.03	1.03	0.99	58CTW135-22
CNPV*4824AL*	1.05	1.05	1.02	58CTW135-22
CNPV*6024AL*	1.04	1.03	1.00	58CTW135-22
CSPH*4812AL*	1.05	1.04	1.02	58CTW135-22
CSPH*6012AL*	1.04	1.02	1.00	58CTW135-22
CAP**4821AL*	1.05	1.07	1.01	59*P2A080E17**16
CSPH*4812AL*	1.06	1.07	1.02	59*P2A080E17**16
CSPH*6012AL*	1.05	1.05	1.01	59*P2A080E17**16
CAP**4821AL*	1.05	1.06	1.01	59*P2A080E21**20
CAP**6021AL*	1.04	1.04	0.99	59*P2A080E21**20
CNPV*4821AL*	1.06	1.08	1.02	59*P2A080E21**20
CSPH*4812AL*	1.06	1.05	1.02	59*P2A080E21**20
CSPH*6012AL*	1.05	1.03	1.01	59*P2A080E21**20
CAP**4821AL*	1.05	1.06	1.01	59*P2A100E21**20
CAP**6021AL*	1.04	1.04	0.99	59*P2A100E21**20
CNPV*4821AL*	1.06	1.08	1.02	59*P2A100E21**20
CSPH*4812AL*	1.06	1.05	1.02	59*P2A100E21**20
CSPH*6012AL*	1.05	1.03	1.01	59*P2A100E21**20
CAP**4824AL*	1.05	1.06	1.01	59*P2A120E24**20
CAP**6024AL*	1.04	1.04	1.00	59*P2A120E24**20
CNPV*4824AL*	1.06	1.08	1.02	59*P2A120E24**20
CNPV*6024AL*	1.05	1.04	1.01	59*P2A120E24**20
CSPH*4812AL*	1.06	1.06	1.02	59*P2A120E24**20

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

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 deïrost 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

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

GUIDE SPECIFICATIONS

GENERAL

System Description

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

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

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

Unit Cabinet

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

Fans

- Condenser fan will be direct-drive propeller type, forward swept blade, discharging air upward.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

25VNA8

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

Compressor

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

Condenser Coil

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

Refrigeration Components

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

Operating Characteristics

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

Electrical Requirements

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

Special Features

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

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is not qualified for low ambient cooling operation.
Minimum cooling outdoor operating temperatures:
 - Communicating systems: 40°F (4.44°C)
 - Non-communicating systems: 55°F (12.8°C)
3. The maximum outdoor operating ambient in cooling mode is 115°F (46.11°C).
4. Minimum outdoor operating air temperature for heating mode is 10°F (−12.2°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
8. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Do not apply capillary tube indoor coils to these units.
11. Puron refrigerant TXV required on indoor coil.