

**25HNB6
Infinity® 2–Stage Heat Pump
with Puron® Refrigerant
2 to 5 Nominal Tons**



Product Data



INFINITY SERIES

Carrier's heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HNB6 has been designed utilizing Carrier's non-ozone depleting Puron refrigerant.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

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

- 13.7 – 17.2 SEER/11.2 – 13.3 EER/8.0 – 9.5 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 67 dBA
- Quiet mount split post compressor grommets
- Forward-swept condenser fan blade
- Compressor sound hood
- 8 pole PSC ball bearing outdoor condenser fan motor

Comfort

- System supports Infinity Control™ or standard 2-stage thermostat controls

Reliability

- Non-ozone depleting Puron® refrigerant
- Front-seating service valves
- 2-stage scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability
- Crankcase heater standard

Durability

WeatherArmor Ultra™ protection package:

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

Controls and Diagnostics

- Infinity™ Control or Thermostat
- 2 control wires to outdoor unit with Infinity Control (serial numbers 3112E and newer).
- Utility Interface Connection
- Enhanced diagnostics capability with Infinity™ Control

Applications

- Long-line – up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to 0°F / -17.8°C) with approved low ambient accessory kits or complete Infinity system.

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	H	N	B	6	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	H = RES HP	N = Infinity Series	B = Puron	6=16 SEER		A = Standard	0=Not Defined	0=Not Defined	3=208/230-1	0, 1, 2...		



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



ISO 9001
QMI-SAI Global



This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**



STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series			
	24–32	36–31	48–31	60–32
Puron Refrigerant	X	X	X	X
2 control wires to outdoor unit with Infinity Control (serial numbers 3112E and newer).	X	X	X	X
Maximum SEER Rating*	17.2	17.0	16.5	16.0
2–Stage Scroll Compressor	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 Relief Valve	X	X	X	X
Long Line capability	X	X	X	X
Loss of Charge Switch	X	X	X	X
High Pressure Switch	X	X	X	X
Crankcase Heater	X	X	X	X
Low ambient cooling down to 0°F capability with Infinity Control or Approved Kits	X	X	X	X
Utility Interface Connections	X	X	X	X
Enhanced Diagnostics with Infinity Control	X	X	X	X
Sound Blanket	X	X	X	X

X = Standard

* With approved combinations

PHYSICAL DATA

UNIT SIZE SERIES	24–32	36–31	48–31	60–32
Compressor Type	Ultratech® Scroll			
REFRIGERANT	Puron® (R-410A)			
Control	TXV (Puron Hard Shutoff)			
Charge lb (kg)	13.07 (5.93)	13.70 (6.21)	13.73 (6.23)	14.78 (6.70)
Outdoor Htg Piston #	46	55	61	67
COND FAN	Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	3200	3200	4350	5000
Motor HP	1/12	1/12	1/4	1/4
Motor RPM	800	800	825	825
COND COIL				
Face Area (Sq ft)	25.2	25.2	25.2	30.18
Fins per In.	20	20	20	20
Rows	2	2	2	2
Circuits	8	8	8	10
VALVE CONNECT. (In. ID)				
Vapor	3/4	7/8	7/8	7/8
Liquid	3/8			
REFRIGERANT TUBES (In. OD)				
Rated Vapor*	3/4	7/8	1–1/8	1–1/8
Max Liquid Line	3/8			

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

Note: See unit Installation Instruction for proper installation.

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

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

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)								
			Standard Application		Long Line Application Requires Accessories						
			26–50 (7.9–15.2)	51–80 (15.5–24.4)	81–100 (24.7–30.5)	101–125 (30.8–38.1)	126–150 (38.4–45.7)	151–175 (46.0–50.3)	176–200 (53.6–60.0)	201–225 (61.3–68.6)	226–250 (68.9–76.2)
24,000 2–Stage HP with Puron	3/8	5/8	0	1	1	2	3	3	4	4	5
		3/4	0	1	1	1	1	1	1	1	1
36,000 2–Stage HP with Puron	3/8	5/8	1	2	4	5	6	7	9	10	11
		3/4	0	0	1	1	2	2	3	3	4
		7/8	0	0	—	—	—	—	—	—	—
48,000 2–Stage HP with Puron	3/8	3/4	1	2	2	3	4	5	6	7	7
		7/8	0	1	1	2	2	2	3	3	4
		1–1/8	0	0	—	—	—	—	—	—	—
60,000 2–Stage HP with Puron	3/8	3/4	1	2	4	5	6	8	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1–1/8	0	0	—	—	—	—	—	—	—

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit.

— Applications in this area are not recommended due to insufficient oil return.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the 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	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

† 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)
024 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
036 HP with Puron	3/8	250*	250*	250*	250*	250*	250*	250*
048 HP with Puron	3/8	250*	250*	250*	250*	230	160	--
060 HP with Puron	3/8	250*	225*	190	150	110	--	--

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

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

-- = outside acceptable range

LONG LINE APPLICATIONS

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

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

HP WITH PURON® REFRIGERANT LONG LINE DESCRIPTION ft (m)

Beyond these lengths, long line accessories are required

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

Note: See Long Line Guideline for details

ACCESSORIES

KIT NUMBER	KIT NAME	24 – 32	36 – 31	48 – 31	60 – 32
KHALS0401LLS	SOLENOID VALVE	X	X	X	X
KHASS0606MPK*	SNOW STAND	X	X	X	X
KSAHS2501AAA†	HARD START KIT	X	X		
KSAHS2801AAA†	HARD START KIT			X	X
KSASF0101AAA	SUPPORT FEET	X	X	X	X
KAFT0101AAA	FREEZE THERMOSTAT	X	X	X	X
KSALA0301410	LOW AMBIENT PRESSURE SWITCH	X	X	X	X
KHAIR0201AAA	ISOLATION RELAY	X	X	X	X

x = Accessory S = Standard

* Available from RCD

† Not backward compatible to previous series.

ACCESSORY CONTROLS

PART NO.	DESCRIPTION
SYSTXCCITN01	Infinity Touch Control (non–Wi–Fi)
SYSTXCCITW01	Infinity Touch Control with Wi–Fi & Wireless Access Point
SYSTXCCUID01-V	Infinity Control Deluxe 7-Day Programmable (Wall-mounted system control.)
SYSTXCCUIZ01-V	Infinity Control Deluxe Zoning 7-Day Programmable (Wall-mounted control for a multi-zone system.)
SYSTXCC4ZC01	Infinity 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.)
SYSTXCCSMS01	Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCRRS01	Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCRCT01 or SYSTXCCRWF01	Infinity System Access Module (Hardware for wireless access and control via internet.)
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on Non-zoning applications.)
SYSTXXXBPU01	Decorative Back Plate for Infinity Control (Decorative wall plate.)

ACCESSORY USAGE GUIDELINE

Accessory	Required for Low Ambient Cooling Applications Utilizing 2-Stage Thermostat on 16 SEER Models Only (Below 55° F / 12.8° C)	Required for Low Ambient Cooling Applications Utilizing UI (Below 55° F / 12.8° C)	Required for Long Line Applications*	Required for Sea Coast Applications (within 2 miles/3.2 km)
Compressor Start Assist Capacitor and Relay	No	No	No	No
Crankcase Heater	Yes (standard on some units)	Yes (standard on some units)	Yes (standard on some units)	No
Evaporator Freeze Thermostat	Yes (kit required)	Standard with Infinity Control (no kit required)	No	No
Isolation Relay	Yes (kit required)	Standard with Infinity Control (no kit required)	No	No
Liquid Line Solenoid Valve	No	No	No	No
Low-Ambient Pressure Switch	Yes (kit required)	Standard with Infinity Control (no kit required)	See Residential Piping and Long Line Guideline	No
Puron Refrigerant Balance Port Hard Shutoff TXV	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)	Yes (standard w/factory approved indoor unit)
Support Feet	Recommended	Recommended	No	Recommended

* For tubing set lengths between 80 and 200 ft. (24.38 and 60.96 m) horizontal or 20 ft. (6.10 m) vertical differential (total equivalent length), refer to the Residential Piping and Long Line Guideline

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a “hard” boost to compressor motor at each start up.

Usage Guideline:

Not required on this unit since compressor always starts unloaded.

Available if required by local codes.

2. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

3. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

4. Isolation Relay

An SPDT relay which switches the low ambient controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.

Usage Guideline:

Required in all heat pumps where low ambient kit has been added.

5. Low-Ambient Pressure Switch

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested in all commercial applications.

6. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

Suggested for all commercial applications.

7. Outdoor Air Temperature Sensor

Designed for use with Carrier Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

8. Snow Stand

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

Usage Guideline:

Suggested in the following applications:

Heat pump installations in heavy snowfall areas.

Heat pump installations in snow drift locations.

Heat pump installations in areas of prolonged subfreezing temperatures.

All commercial installations.

9. Thermostatic Expansion Valve (TXV) Bi-Flow

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:

Accessory required to meet AHRI rating and system reliability, where indoor not equipped.

Required in all heat pump applications designed with Puron refrigerant.

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	
24–32	208–230/1	253	197	58.3	12.5	0.6	16.2	14	14	48 (14.8)	46 (14.1)	25
36–31				83.0	18.5	0.6	23.7	12	12	52 (16.0)	50 (15.3)	40
48–31				104.0	22.8	1.3	29.8	10	10	67 (20.4)	63 (19.4)	50
60–32				152.9	28.8	1.5	37.5	8	8	82 (25.2)	78 (24.0)	60

* 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

SOUND POWER LEVEL (dBA)

Unit Size – Voltage, Series	Standard Rating dBA	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24–32	68 – High Stage	50.5	56.0	60.0	62.5	60.0	58.0	51.0
	67 – Low Stage	50.0	56.5	61.0	61.5	60.0	58.5	49.0
36–31	70 – High Stage	50.5	56.0	60.0	66.0	60.0	56.5	50.0
	68 – Low Stage	51.5	56.5	59.5	63.0	59.5	57.0	49.0
48–31	70 – High Stage	52.0	59.5	63.5	65.0	59.5	56.5	49.5
	69 – Low Stage	53.0	60.5	63.5	63.5	59.0	56.5	50.0
60–32	71 – High Stage	49.5	59.0	63.0	63.5	59.5	58.0	54.5
	71 – Low Stage	51.5	60.0	63.5	65.5	59.5	59.5	55.0

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

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
24–32	10 (5.6)
36–31	13 (7.2)
48–31	12 (6.7)
60–32	11 (6.1)

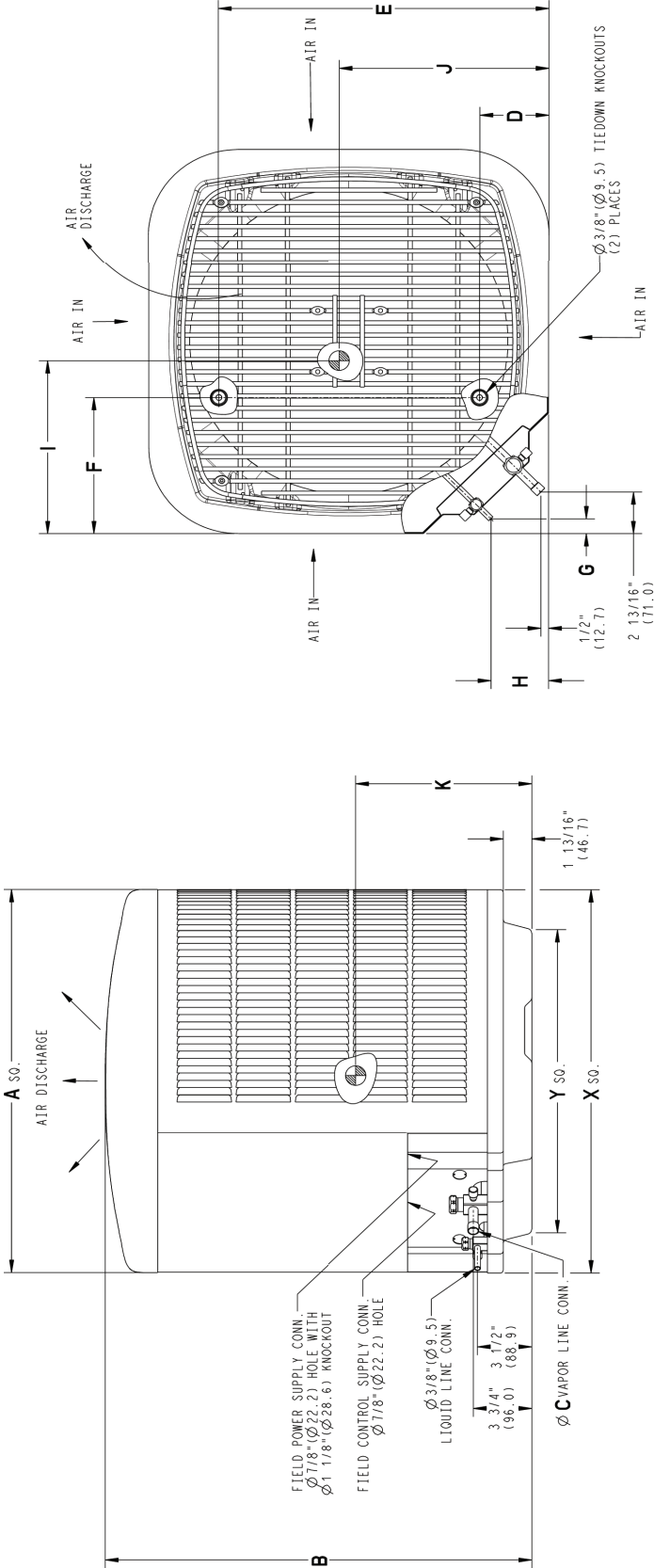
DIMENSIONS

UNIT	SERIES	A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT						
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM					
25HNB624A0032030	2	Y	N	N	35	889.0	40 3/8	1026.3	3/4	19.1	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	17 1/4	438.2	18	457.2	18	457.2	275	124.7	318	144.2	37 1/8	943.1	45 1/4	1149.1
25HNB636A0031030	1	Y	N	N	35	889.0	40 3/8	1026.3	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	17	431.8	18 1/2	469.9	18	476.3	296	134.3	339	153.8	37 1/8	943.1	45 1/4	1149.1
25HNB648A0031030	1	Y	N	N	35	889.0	40 3/8	1026.3	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	17 1/2	444.5	18 1/4	463.6	20	508.0	328	148.8	371	168.3	37 1/8	943.1	45 1/4	1149.1
25HNB660A0032030	2	Y	N	N	35	889.0	47 3/16	1199.0	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	17 1/8	435.0	21	533.4	350	158.8	395	179.2	37 1/8	943.1	52 7/16	1332.0

Y=YES

N=NO

1. CENTER OF GRAVITY

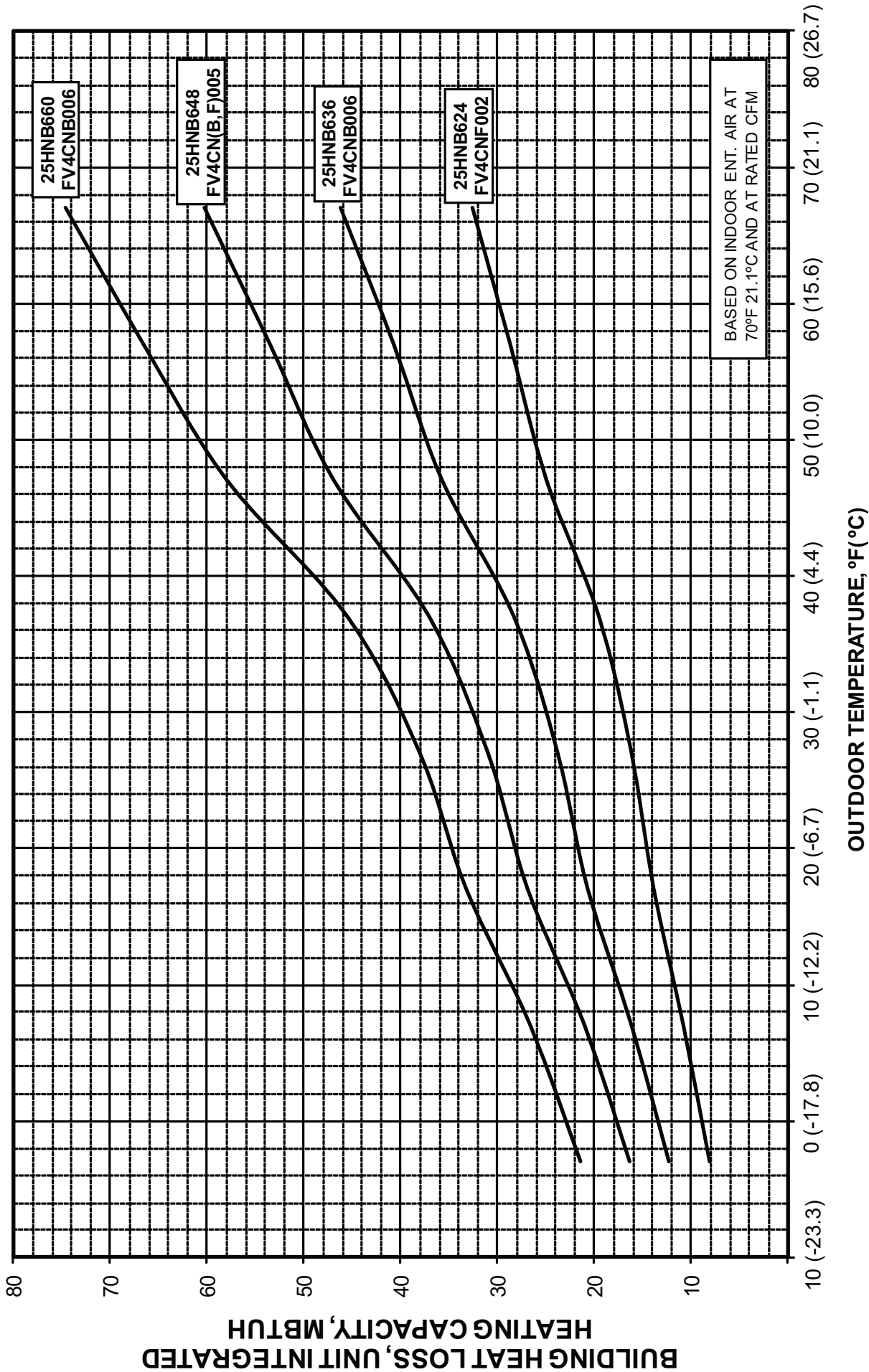


UNIT SIZE	"X"				"Y"			
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS				MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS			
-	23	1/8	587.3	17	7/8	454.6		
-	25	3/4	654.0	20	7/16	518.5		
-	31	3/16	792.5	22	15/16	583.2		
24,36,48,60	35		889.0	26	3/4	679.7		

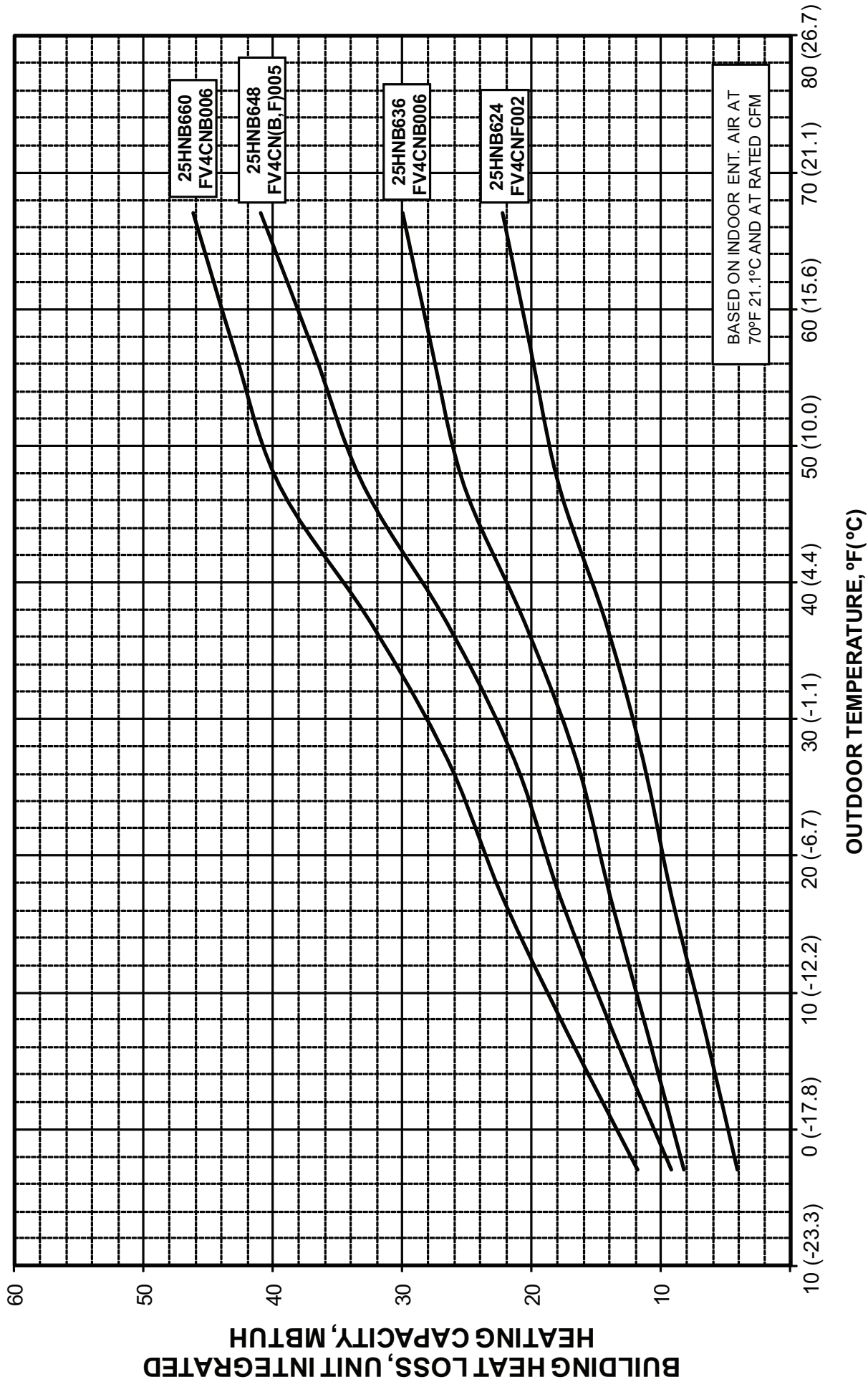
NOTE: ALL DIMENSIONS IN INCH (MM)

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

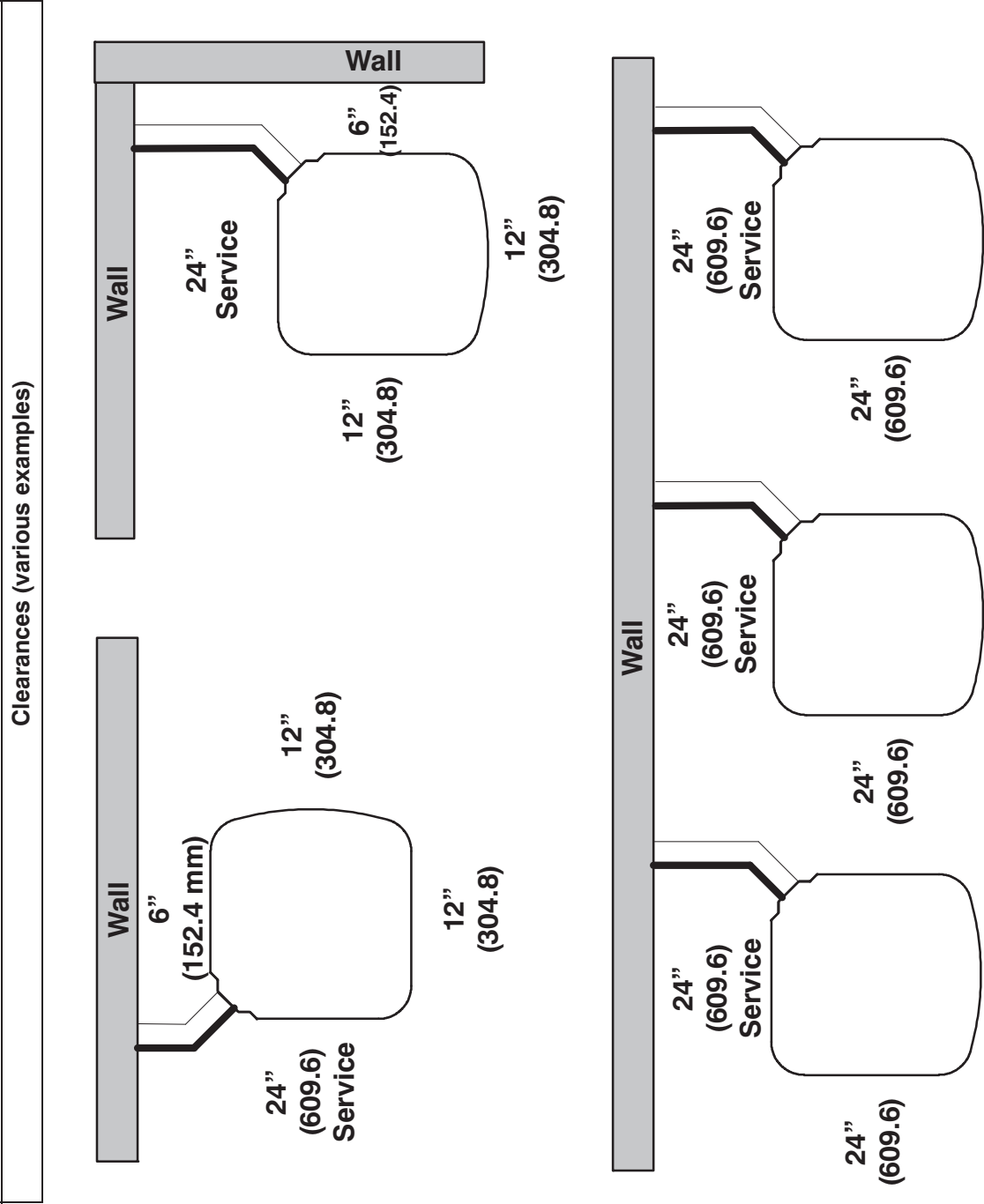
25HNB6 BALANCE POINT WORKSHEET - HIGH STAGE



25HNB6 BALANCE POINT WORKSHEET - LOW STAGE



CLEARANCES



Note: Numbers in () = mm

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

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

1000

DETAILED COOLING CAPACITIES#

EVAPORATOR AIR			CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)								
		Capacity MBtu/h Total	Sens†	Total System KW** Total	Capacity MBtu/h Total	Sens†	Total System KW** Total	Capacity MBtu/h Total	Sens†	Total System KW** Total	Capacity MBtu/h Total	Sens†	Total System KW** Total							
600	57 (13.9)	22.47	22.47	1.42	21.26	21.26	1.60	20.00	20.00	1.81	18.69	18.69	2.06	17.34	17.34	2.35	15.96	15.96	2.72	
	62 (16.7)	24.04	20.32	1.43	22.54	19.39	1.61	20.99	18.43	1.82	19.39	17.45	2.06	17.77	16.44	2.36	16.14	15.39	2.72	
	63 (17.2)††	24.52	16.88	1.43	22.99	16.03	1.61	21.40	15.16	1.82	19.77	14.27	2.06	18.10	13.37	2.36	16.39	12.47	2.72	
	67 (19.4)	26.60	17.58	1.44	24.94	16.71	1.62	23.23	15.82	1.83	21.47	14.92	2.07	19.68	14.02	2.37	17.86	13.10	2.73	
	72 (22.2)	29.45	14.67	1.46	27.62	13.88	1.64	25.73	13.07	1.84	23.80	12.26	2.09	21.84	11.45	2.38	19.84	10.63	2.74	
650	57 (13.9)	23.20	23.20	1.43	21.94	21.94	1.61	20.62	20.62	1.82	19.26	19.26	2.07	17.86	17.86	2.36	16.42	16.42	2.73	
	62 (16.7)	24.52	21.24	1.44	22.98	20.27	1.62	21.39	19.27	1.82	19.75	18.25	2.07	18.11	17.18	2.37	16.46	16.46	2.73	
	63 (17.2)††	25.01	17.53	1.44	23.43	16.66	1.62	21.79	15.76	1.83	20.11	14.85	2.07	18.40	13.93	2.37	16.65	13.00	2.73	
	67 (19.4)	27.11	18.28	1.45	25.41	17.38	1.63	23.64	16.47	1.84	21.83	15.54	2.08	20.00	14.61	2.38	18.13	13.67	2.74	
	72 (22.2)	30.01	15.16	1.47	28.12	14.35	1.65	26.17	13.52	1.85	24.19	12.70	2.10	22.17	11.86	2.39	20.13	11.01	2.74	
700	57 (13.9)	23.88	23.88	1.44	22.56	22.56	1.62	21.20	21.20	1.83	19.78	19.78	2.08	18.33	18.33	2.37	16.84	16.84	2.74	
	62 (16.7)	24.95	22.13	1.45	23.38	21.12	1.63	21.74	20.08	1.83	20.08	19.01	2.08	18.42	18.27	2.37	16.87	16.87	2.74	
	63 (17.2)††	25.44	18.16	1.45	23.82	17.27	1.63	22.14	16.35	1.84	20.41	15.41	2.08	18.65	14.47	2.38	16.87	13.52	2.74	
	67 (19.4)	27.57	18.95	1.46	25.81	18.03	1.64	24.00	17.09	1.85	22.15	16.14	2.09	20.27	15.19	2.39	18.36	14.23	2.74	
	72 (22.2)	30.50	15.64	1.48	28.55	14.80	1.65	26.55	13.96	1.86	24.52	13.11	2.10	22.46	12.24	2.40	20.38	11.37	2.75	
800	57 (13.9)	25.06	25.06	1.46	23.66	23.66	1.64	22.20	22.20	1.85	20.69	20.69	2.09	19.15	19.15	2.39	17.57	17.57	2.75	
	62 (16.7)	25.69	23.81	1.46	24.06	22.72	1.64	22.38	21.57	1.85	20.73	20.73	2.10	19.18	19.18	2.39	17.60	17.60	2.75	
	63 (17.2)††	26.15	19.37	1.47	24.45	18.44	1.65	22.69	17.47	1.85	20.90	16.49	2.10	19.08	15.51	2.39	17.23	14.51	2.75	
	67 (19.4)	28.31	20.24	1.48	26.48	19.28	1.66	24.59	18.30	1.86	22.66	17.31	2.11	20.71	16.31	2.40	18.74	15.30	2.76	
	72 (22.2)	31.29	16.52	1.49	29.26	15.64	1.67	27.18	14.75	1.87	25.08	13.85	2.12	22.94	12.95	2.41	20.79	12.04	2.77	
25HNB24A**32 Outdoor Section With FV4CNF002 Indoor Section – LOW																				
480	57 (13.9)	17.40	17.40	1.02	16.19	16.19	1.19	14.92	14.92	1.39	13.64	13.64	1.62	12.37	12.37	1.89	11.13	11.13	2.20	
	62 (16.7)	18.34	16.19	1.02	16.89	15.05	1.19	15.38	13.92	1.39	13.87	12.77	1.62	12.43	12.34	1.89	11.15	11.15	2.20	
	63 (17.2)††	18.71	13.35	1.01	17.22	12.36	1.18	15.67	11.36	1.38	14.11	10.38	1.62	12.58	9.42	1.89	11.11	8.51	2.20	
	67 (19.4)	20.36	13.94	1.00	18.74	12.92	1.17	17.07	11.90	1.37	15.40	10.90	1.60	13.77	9.91	1.88	12.20	8.98	2.19	
	72 (22.2)	22.60	11.57	0.98	20.80	10.66	1.15	18.96	9.76	1.35	17.13	8.89	1.59	15.35	8.03	1.86	13.64	7.21	2.19	
520	57 (13.9)	17.97	17.97	1.02	16.71	16.71	1.19	15.39	15.39	1.39	14.05	14.05	1.62	12.74	12.74	1.89	11.45	11.45	2.20	
	62 (16.7)	18.72	16.93	1.02	17.22	15.75	1.19	15.68	14.56	1.39	14.15	13.34	1.62	12.76	12.76	1.89	11.47	11.47	2.20	
	63 (17.2)††	19.08	13.89	1.01	17.54	12.86	1.19	15.95	11.83	1.39	14.35	10.82	1.62	12.79	9.83	1.89	11.28	8.88	2.20	
	67 (19.4)	20.75	14.52	1.00	19.07	13.46	1.17	17.36	12.41	1.37	15.65	11.37	1.61	13.98	10.37	1.88	12.37	9.39	2.20	
	72 (22.2)	23.02	11.97	0.98	21.16	11.04	1.15	19.27	10.11	1.35	17.40	9.21	1.59	15.58	8.32	1.87	13.83	7.48	2.19	
560	57 (13.9)	18.49	18.49	1.02	17.17	17.17	1.19	15.81	15.81	1.39	14.43	14.43	1.62	13.07	13.07	1.89	11.74	11.74	2.21	
	62 (16.7)	19.05	17.65	1.02	17.51	16.42	1.19	15.96	15.15	1.39	14.46	14.46	1.62	13.09	13.09	1.89	11.76	11.76	2.21	
	63 (17.2)††	19.40	14.41	1.02	17.81	13.35	1.19	16.19	12.29	1.39	14.55	11.24	1.62	12.96	10.23	1.89	11.43	9.24	2.21	
	67 (19.4)	21.08	15.07	1.00	19.37	13.99	1.17	17.61	12.90	1.37	15.87	11.83	1.61	14.16	10.80	1.88	12.52	9.80	2.20	
	72 (22.2)	23.38	12.35	0.98	21.47	11.41	1.15	19.54	10.45	1.35	17.63	9.50	1.59	15.78	8.60	1.87	14.00	7.73	2.20	
640	57 (13.9)	19.40	19.40	1.03	18.00	18.00	1.20	16.55	16.55	1.40	15.08	15.08	1.63	13.64	13.64	1.90	12.24	12.24	2.22	
	62 (16.7)	19.63	18.98	1.03	18.07	17.96	1.20	16.57	16.57	1.40	15.11	15.11	1.63	13.67	13.67	1.90	12.26	12.26	2.22	
	63 (17.2)††	19.92	15.40	1.03	18.26	14.99	1.20	16.58	13.16	1.40	14.89	12.06	1.63	13.25	10.97	1.91	12.67	9.93	2.22	
	67 (19.4)	21.63	16.14	1.01	19.84	14.29	1.18	18.02	13.84	1.38	16.21	12.71	1.62	14.45	11.61	1.90	12.77	10.55	2.22	
	72 (22.2)	23.96	13.07	0.99	21.98	12.06	1.16	19.98	11.05	1.36	18.01	10.06	1.60	16.09	9.12	1.88	14.25	8.22	2.21	

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR			CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																		
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)				95 (35)				105 (40.6)				115 (48.1)				125 (51.7)	
		Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**	Capacity MBtuHt		Total System KW**		
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†		
900	57 (13.9)	33.59	33.59	2.10	32.13	32.13	2.36	30.60	30.60	2.67	28.98	28.98	3.03	27.24	27.24	3.44	25.34	25.34	3.90		
	62 (16.7)	35.79	30.52	2.13	33.92	29.55	2.38	31.98	28.55	2.68	29.95	27.51	3.03	27.78	26.41	3.44	25.47	25.23	3.91		
	63 (17.2)††	36.56	25.27	2.13	34.65	24.34	2.39	32.68	23.39	2.69	30.59	22.40	3.04	28.37	21.35	3.44	25.95	20.24	3.91		
	67 (19.4)	39.56	26.24	2.16	37.50	25.30	2.41	35.38	24.34	2.71	33.12	23.34	3.06	30.72	22.28	3.47	28.13	21.16	3.93		
	72 (22.2)	43.66	21.83	2.21	41.43	20.94	2.45	39.09	20.03	2.74	36.82	19.09	3.09	34.00	18.05	3.50	31.17	16.98	3.96		
975	57 (13.9)	34.66	34.66	2.12	33.12	33.12	2.38	31.53	31.53	2.69	29.83	29.83	3.04	28.02	28.02	3.45	26.04	26.04	3.92		
	62 (16.7)	36.45	31.93	2.14	34.52	30.93	2.39	32.54	29.91	2.69	30.44	28.83	3.05	28.25	27.68	3.45	26.08	26.08	3.92		
	63 (17.2)††	37.23	26.25	2.15	35.26	25.31	2.40	33.22	24.33	2.70	31.07	23.32	3.05	28.78	22.25	3.46	26.30	21.12	3.92		
	67 (19.4)	40.24	27.28	2.18	38.13	26.33	2.43	35.92	25.34	2.72	33.61	24.32	3.07	31.14	23.24	3.48	28.48	22.10	3.95		
	72 (22.2)	44.40	22.51	2.22	42.08	21.60	2.46	39.68	20.67	2.76	37.15	19.70	3.10	34.44	18.66	3.51	31.56	17.58	3.98		
1050	57 (13.9)	35.64	35.64	2.14	34.03	34.03	2.40	32.38	32.38	2.70	30.61	30.61	3.06	28.73	28.73	3.47	26.66	26.66	3.94		
	62 (16.7)	37.04	33.31	2.16	35.06	32.28	2.41	33.03	31.22	2.71	30.91	30.11	3.06	28.77	28.77	3.47	26.70	26.70	3.94		
	63 (17.2)††	37.80	27.21	2.16	35.78	26.24	2.41	33.69	25.26	2.71	31.48	24.22	3.07	29.13	23.13	3.47	26.60	21.97	3.94		
	67 (19.4)	40.84	28.30	2.20	38.66	27.32	2.44	36.40	26.32	2.74	34.03	25.28	3.09	31.49	24.18	3.49	28.79	23.03	3.96		
	72 (22.2)	45.03	23.16	2.24	42.65	22.24	2.48	40.20	21.29	2.77	37.60	20.30	3.12	34.83	19.26	3.52	31.88	18.16	3.99		
1200	57 (13.9)	37.35	37.35	2.18	35.63	35.63	2.43	33.86	33.86	2.74	31.97	31.97	3.09	29.94	29.94	3.50	27.74	27.74	3.97		
	62 (16.7)	38.04	35.95	2.19	36.01	34.85	2.44	33.95	33.86	2.74	32.02	32.02	3.09	29.98	29.98	3.50	27.78	27.78	3.97		
	63 (17.2)††	38.75	29.06	2.19	36.63	28.06	2.44	34.43	27.03	2.74	32.13	25.96	3.09	29.69	24.84	3.50	27.07	23.64	3.96		
	67 (19.4)	41.80	30.27	2.23	39.53	29.26	2.47	37.17	28.23	2.76	34.71	27.15	3.11	32.08	26.02	3.52	29.28	24.82	3.99		
	72 (22.2)	46.06	24.41	2.27	43.58	23.47	2.51	41.01	22.49	2.80	38.32	21.48	3.15	35.44	20.41	3.55	32.39	19.28	4.02		
25HNB636A**31 Outdoor Section With FV4CNB006 Indoor Section – LOW																					
720	57 (13.9)	25.97	25.97	1.44	24.13	24.13	1.73	22.32	22.32	2.06	20.47	20.47	2.46	18.58	18.58	2.93	16.64	16.64	3.49		
	62 (16.7)	27.04	24.32	1.44	24.89	22.65	1.72	22.77	21.00	2.06	20.65	19.36	2.46	18.62	18.62	2.93	16.67	16.67	3.49		
	63 (17.2)††	27.62	19.90	1.43	25.41	18.43	1.72	23.23	17.00	2.05	21.04	15.58	2.46	18.80	14.16	2.93	16.53	12.76	3.49		
	67 (19.4)	30.03	20.80	1.41	27.65	19.26	1.70	25.29	17.79	2.04	22.92	16.32	2.44	20.50	14.87	2.91	18.05	13.43	3.47		
	72 (22.2)	33.45	17.17	1.38	30.80	15.82	1.67	28.18	14.50	2.01	25.56	13.21	2.41	22.91	11.93	2.88	20.21	10.66	3.44		
780	57 (13.9)	26.78	26.78	1.44	24.87	24.87	1.72	22.98	22.98	2.06	21.07	21.07	2.46	19.11	19.11	2.93	17.10	17.10	3.49		
	62 (16.7)	27.53	25.51	1.44	25.33	23.77	1.72	23.18	22.04	2.06	21.11	21.11	2.46	19.14	19.14	2.93	17.13	17.13	3.49		
	63 (17.2)††	28.09	20.73	1.43	25.83	19.21	1.72	23.59	17.73	2.06	21.34	16.26	2.46	19.06	14.80	2.94	16.73	13.35	3.50		
	67 (19.4)	30.55	21.66	1.41	28.10	20.10	1.70	25.67	18.57	2.04	23.25	17.06	2.44	20.78	15.56	2.91	18.28	14.07	3.47		
	72 (22.2)	34.02	17.75	1.39	31.29	16.36	1.68	28.60	15.01	2.02	25.92	13.69	2.42	23.21	12.37	2.89	20.45	11.08	3.44		
840	57 (13.9)	27.53	27.53	1.44	25.56	25.56	1.72	23.60	23.60	2.06	21.61	21.61	2.46	19.59	19.59	2.93	17.51	17.51	3.49		
	62 (16.7)	27.98	26.67	1.44	25.76	24.84	1.72	23.64	23.64	2.06	21.65	21.65	2.46	19.63	19.63	2.93	17.54	17.54	3.49		
	63 (17.2)††	28.51	21.54	1.43	26.20	19.98	1.72	23.91	18.45	2.06	21.61	16.93	2.46	19.29	15.43	2.94	16.92	13.93	3.50		
	67 (19.4)	31.00	22.53	1.41	28.48	20.92	1.70	26.01	19.34	2.04	23.53	17.78	2.44	21.02	16.24	2.92	18.47	14.70	3.47		
	72 (22.2)	34.49	18.31	1.39	31.71	16.89	1.68	28.96	15.51	2.02	26.22	14.15	2.42	23.45	12.81	2.89	20.65	11.48	3.44		
960	57 (13.9)	28.86	28.86	1.44	26.76	26.76	1.73	24.68	24.68	2.06	22.57	22.57	2.46	20.43	20.43	2.94	18.24	18.24	3.49		
	62 (16.7)	28.91	28.91	1.44	26.80	26.80	1.73	24.72	24.72	2.06	22.61	22.61	2.46	20.47	20.47	2.94	18.27	18.27	3.49		
	63 (17.2)††	29.20	23.11	1.44	26.80	21.46	1.73	24.44	19.85	2.07	22.06	18.24	2.47	19.67	16.65	2.95	17.25	15.06	3.51		
	67 (19.4)	31.73	24.22	1.42	29.12	22.52	1.71	26.56	20.85	2.05	23.99	19.19	2.45	21.42	17.56	2.92	18.80	15.93	3.48		
	72 (22.2)	35.28	19.40	1.39	32.39	17.92	1.68	29.55	16.47	2.02	26.71	15.05	2.42	23.87	13.65	2.90	20.98	12.26	3.45		

See notes on pg. 16

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																					
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)											
		Capacity MBtuHt	Total System KW**	Capacity MBtuHt	Total System KW**	Capacity MBtuHt	Total System KW**	Capacity MBtuHt	Total System KW**	Capacity MBtuHt	Total System KW**	Capacity MBtuHt	Total System KW**										
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†										
25HNB48A**31 Outdoor Section With FV4CN(B,F)005 Indoor Section – HIGH																							
1200	57 (13.9)	42.70	42.70	2.91	41.39	41.39	3.26	39.86	39.86	3.66	38.17	38.17	4.13	36.35	36.35	4.69	34.44	34.44	5.34				
	62 (16.7)	45.46	39.41	2.92	43.68	38.56	3.27	41.63	37.58	3.67	39.40	36.53	4.14	37.07	35.41	4.69	34.69	34.21	5.35				
	63 (17.2)†	46.41	32.56	2.93	44.59	31.70	3.28	42.48	30.72	3.68	40.18	29.67	4.15	37.76	28.58	4.70	35.25	27.48	5.35				
	67 (19.4)	50.09	33.77	2.95	48.12	32.90	3.30	45.85	31.92	3.70	43.40	30.88	4.18	40.80	29.80	4.74	38.11	28.70	5.40				
	72 (22.2)	55.10	27.96	2.98	52.90	27.06	3.33	50.43	26.08	3.74	47.76	25.04	4.22	44.93	23.95	4.78	41.99	22.85	5.45				
1300	57 (13.9)	43.94	43.94	2.94	42.57	42.57	3.29	40.96	40.96	3.69	39.18	39.18	4.16	37.28	37.28	4.72	35.28	35.28	5.38				
	62 (16.7)	46.21	41.13	2.95	44.38	40.25	3.30	42.26	39.25	3.70	39.98	38.15	4.17	37.61	36.96	4.72	35.34	35.34	5.38				
	63 (17.2)†	47.15	33.75	2.96	45.26	32.87	3.31	43.09	31.87	3.71	40.71	30.81	4.18	38.22	29.71	4.73	35.64	28.59	5.43				
	67 (19.4)	50.86	35.03	2.98	48.81	34.14	3.33	46.48	33.15	3.73	43.94	32.10	4.21	41.27	31.01	4.77	38.51	29.90	5.43				
	72 (22.2)	55.89	28.74	3.00	53.62	27.84	3.36	51.07	26.84	3.77	48.32	25.79	4.25	45.41	24.70	4.81	42.39	23.58	5.48				
1400	57 (13.9)	45.06	45.06	2.97	43.63	43.63	3.32	41.94	41.94	3.72	40.09	40.09	4.19	38.12	38.12	4.75	36.04	36.04	5.42				
	62 (16.7)	46.88	42.78	2.98	44.98	41.87	3.33	42.83	40.84	3.73	40.51	39.67	4.20	38.18	38.18	4.75	36.09	36.09	5.42				
	63 (17.2)†	47.79	34.89	2.98	45.84	34.00	3.33	43.60	32.99	3.73	41.16	31.92	4.20	38.61	30.81	4.76	35.98	29.67	5.41				
	67 (19.4)	51.52	36.24	3.00	49.40	35.35	3.35	47.00	34.35	3.76	44.39	33.28	4.23	41.67	32.19	4.79	38.84	31.06	5.46				
	72 (22.2)	56.57	29.50	3.03	54.24	28.58	3.38	51.61	27.58	3.79	48.79	26.52	4.27	45.81	25.41	4.84	42.73	24.30	5.51				
1600	57 (13.9)	47.01	47.01	3.02	45.45	45.45	3.38	43.64	43.64	3.78	41.65	41.65	4.26	39.54	39.54	4.82	37.32	37.32	5.48				
	62 (16.7)	48.00	45.88	3.03	46.04	44.90	3.38	43.86	43.45	3.78	41.71	41.71	4.26	39.60	39.60	4.82	37.36	37.36	5.49				
	63 (17.2)†	48.82	37.08	3.03	46.76	36.17	3.38	44.42	35.15	3.79	41.88	34.05	4.26	39.24	32.91	4.81	36.51	31.74	5.47				
	67 (19.4)	52.57	38.58	3.05	50.34	37.67	3.41	47.82	36.66	3.81	45.12	35.57	4.29	42.28	34.45	4.85	39.37	33.30	5.51				
	72 (22.2)	57.65	30.93	3.08	55.20	30.01	3.43	52.47	28.99	3.85	49.53	27.91	4.33	46.44	26.80	4.90	43.25	25.67	5.57				
25HNB48A**31 Outdoor Section With FV4CN(B,F)005 Indoor Section – LOW																							
960	57 (13.9)	33.65	33.65	1.99	30.83	30.83	2.34	27.95	27.95	2.75	25.05	25.05	3.21	22.16	22.16	3.75	19.33	19.33	4.36				
	62 (16.7)	35.08	31.64	1.98	31.83	29.19	2.33	28.52	26.72	2.74	25.24	24.22	3.21	22.20	22.20	3.74	19.36	19.36	4.36				
	63 (17.2)†	35.83	25.87	1.98	32.50	23.75	2.33	29.09	21.61	2.74	25.67	19.49	3.20	22.29	17.41	3.74	18.99	15.39	4.37				
	67 (19.4)	38.99	27.02	1.95	35.42	24.85	2.30	31.77	22.66	2.71	28.12	20.50	3.18	24.49	18.37	3.72	20.96	16.30	4.34				
	72 (22.2)	43.33	22.27	1.92	39.42	20.37	2.27	35.44	18.46	2.68	31.46	16.57	3.15	27.50	14.72	3.69	23.63	12.93	4.31				
1040	57 (13.9)	34.67	34.67	2.00	31.75	31.75	2.35	28.77	28.77	2.75	25.77	25.77	3.21	22.79	22.79	3.75	19.87	19.87	4.37				
	62 (16.7)	35.69	33.12	1.99	32.38	30.56	2.34	29.03	27.96	2.75	25.82	25.82	3.21	22.83	22.83	3.75	19.90	19.90	4.37				
	63 (17.2)†	36.41	26.91	1.98	33.00	24.72	2.34	29.53	22.52	2.74	26.04	20.33	3.21	22.60	18.19	3.75	19.24	16.10	4.38				
	67 (19.4)	39.61	28.13	1.96	35.95	25.88	2.31	32.23	23.63	2.72	28.49	21.39	3.19	24.81	19.20	3.73	21.21	17.07	4.35				
	72 (22.2)	44.00	22.98	1.93	40.00	21.03	2.28	35.94	19.08	2.69	31.87	17.14	3.16	27.85	15.25	3.70	23.90	13.41	4.32				
1120	57 (13.9)	35.59	35.59	2.00	32.58	32.58	2.35	29.51	29.51	2.75	26.43	26.43	3.22	23.36	23.36	3.76	20.35	20.35	4.38				
	62 (16.7)	36.25	34.53	2.00	32.90	31.86	2.35	29.57	29.57	2.75	26.47	26.47	3.22	23.40	23.40	3.76	20.38	20.38	4.37				
	63 (17.2)†	36.91	27.91	1.99	33.44	25.66	2.35	29.91	23.39	2.75	26.37	21.15	3.22	23.40	23.40	3.76	20.38	20.38	4.37				
	67 (19.4)	40.13	29.21	1.97	36.41	26.89	2.32	32.62	24.57	2.73	28.82	22.27	3.20	25.08	20.01	3.74	21.43	17.81	4.36				
	72 (22.2)	44.57	23.67	1.93	40.50	21.67	2.29	36.36	19.67	2.70	32.23	17.70	3.17	28.14	15.76	3.71	24.13	13.88	4.33				
1280	57 (13.9)	37.21	37.21	2.01	34.04	34.04	2.36	30.81	30.81	2.77	27.57	27.57	3.23	24.35	24.35	3.77	21.18	21.18	4.39				
	62 (16.7)	37.28	37.28	2.01	34.09	34.09	2.36	30.86	30.86	2.77	27.62	27.62	3.23	24.38	24.38	3.77	21.21	21.21	4.39				
	63 (17.2)†	37.74	29.85	2.01	34.16	27.47	2.36	30.54	25.09	2.77	26.89	22.71	3.24	23.31	20.37	3.78	19.84	18.07	4.41				
	67 (19.4)	40.98	31.28	1.98	37.14	28.84	2.34	33.25	26.39	2.75	29.36	23.96	3.22	25.52	21.56	3.76	21.80	19.22	4.38				
	72 (22.2)	45.50	24.98	1.95	41.30	22.90	2.31	37.06	20.82	2.72	32.80	18.76	3.19	28.59	16.75	3.73	24.49	14.79	4.35				

See notes on pg. 16

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR			CONDENSER ENTERING AIR TEMPERATURES ° F (° C)											
CFM	EWB ° F (° C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)		
		Capacity MBtuht	Total System KW**	Capacity MBtuht	Total System KW**	Capacity MBtuht	Total System KW**	Capacity MBtuht	Total System KW**	Capacity MBtuht	Total System KW**	Capacity MBtuht	Total System KW**	
		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
25HNB660A**32 Outdoor Section With FV4CNB006 Indoor Section – HIGH														
1500	57 (13.9)	51.61	51.61	49.90	49.90	48.10	48.10	46.09	46.09	43.74	43.74	40.97	40.97	
	62 (16.7)	54.77	49.03	3.96	52.50	45.69	43.92	47.51	43.92	44.55	42.00	41.19	39.81	
	63 (17.2)††	55.96	40.39	3.60	53.60	38.83	37.26	43.45	35.61	43.84	31.92	41.83	31.92	
	67 (19.4)	60.55	41.97	3.65	57.92	40.35	38.71	44.4	37.01	48.79	35.19	44.94	33.24	
	72 (22.2)	66.85	34.72	3.71	63.83	33.13	31.53	49.87	29.87	53.46	28.12	49.17	26.24	
1625	57 (13.9)	53.11	53.11	51.30	3.98	49.40	49.40	47.27	47.27	44.79	44.79	41.89	41.89	
	62 (16.7)	55.69	51.18	3.64	53.31	49.45	4.00	50.86	47.70	45.16	43.80	41.95	41.95	
	63 (17.2)††	56.85	41.87	3.65	54.40	40.27	4.01	51.85	38.66	45.44	42.23	33.19	6.14	
	67 (19.4)	61.48	43.55	3.69	58.74	41.88	4.05	55.90	40.20	49.30	36.60	45.33	34.61	
	72 (22.2)	67.83	35.71	3.75	64.70	34.08	4.11	61.44	30.76	53.98	28.97	27.06	6.23	
1750	57 (13.9)	54.46	54.46	3.66	52.57	52.57	4.03	50.56	50.56	45.73	45.73	42.70	6.18	
	62 (16.7)	56.48	53.25	3.68	54.04	51.45	4.04	51.52	49.63	45.80	45.80	42.76	6.19	
	63 (17.2)††	57.62	43.31	3.69	55.08	41.67	4.05	52.43	40.01	46.29	36.43	42.57	34.43	
	67 (19.4)	62.27	45.08	3.73	59.45	43.37	4.10	56.50	41.65	49.72	37.98	45.66	35.94	
	72 (22.2)	68.68	36.66	3.80	65.44	35.01	4.16	62.06	33.34	58.44	29.80	49.90	27.87	
2000	57 (13.9)	56.83	56.83	3.75	54.75	54.75	4.12	52.55	52.55	45.5	50.11	50.11	6.27	
	62 (16.7)	57.84	57.13	3.76	55.30	55.14	4.12	52.69	52.60	47.37	47.37	44.11	6.27	
	63 (17.2)††	58.85	46.05	3.77	56.15	44.33	4.13	53.37	42.61	48.95	38.88	43.11	36.80	
	67 (19.4)	63.55	48.03	3.81	60.55	46.24	4.18	57.45	44.45	50.35	40.62	46.16	38.50	
	72 (22.2)	70.02	38.47	3.88	66.60	36.76	4.24	63.06	35.04	55.05	31.39	29.42	6.35	
25HNB660A**32 Outdoor Section With FV4CNB006 Indoor Section – LOW														
1200	57 (13.9)	41.27	41.27	2.45	36.79	36.79	2.83	32.29	32.29	27.87	27.87	23.62	19.59	
	62 (16.7)	42.97	39.35	2.43	37.92	36.10	2.82	32.87	32.82	3.27	28.01	27.79	19.62	
	63 (17.2)††	43.88	32.14	2.43	38.70	29.32	2.82	33.52	26.49	3.26	28.48	23.70	19.62	
	67 (19.4)	47.49	33.46	2.40	41.89	30.56	2.79	36.33	27.67	3.24	30.92	24.82	19.38	
	72 (22.2)	52.45	27.41	2.36	46.29	24.87	2.75	40.20	22.34	3.20	34.27	19.86	15.17	
1300	57 (13.9)	42.46	42.46	2.45	37.83	37.83	2.84	33.17	33.17	28.61	28.61	24.22	20.06	
	62 (16.7)	43.67	41.17	2.45	38.51	37.77	2.84	33.41	34.32	24.26	24.26	20.09	20.09	
	63 (17.2)††	44.54	33.40	2.44	39.25	30.50	2.83	33.97	27.58	23.96	21.92	19.40	20.28	
	67 (19.4)	48.17	34.81	2.41	42.46	31.82	2.80	36.79	28.84	26.04	23.03	21.15	20.28	
	72 (22.2)	53.17	28.25	2.37	46.90	25.66	2.76	40.68	23.07	28.91	18.07	23.53	15.72	
1400	57 (13.9)	43.54	43.54	2.46	38.76	38.76	2.85	33.97	33.97	24.76	24.76	20.49	20.49	
	62 (16.7)	44.29	42.90	2.46	39.07	39.35	2.85	34.02	34.02	24.80	24.80	20.52	20.52	
	63 (17.2)††	45.11	34.63	2.45	39.72	31.64	2.84	34.35	28.64	24.19	22.80	19.59	20.52	
	67 (19.4)	48.75	36.12	2.42	42.95	33.05	2.81	37.18	29.97	26.28	24.00	21.33	21.15	
	72 (22.2)	53.79	29.08	2.38	47.41	26.42	2.77	41.08	23.77	29.15	18.67	23.71	16.27	
1600	57 (13.9)	45.41	45.41	2.48	40.37	40.37	2.87	35.34	35.34	25.69	25.69	21.22	21.22	
	62 (16.7)	45.49	45.49	2.48	40.43	40.43	2.87	35.39	35.39	25.72	25.72	21.24	21.24	
	63 (17.2)††	46.03	37.00	2.48	40.48	33.85	2.87	34.98	27.56	24.51	24.51	21.53	21.53	
	67 (19.4)	49.70	38.66	2.45	43.72	35.42	2.84	37.82	32.17	26.67	25.85	21.63	22.81	
	72 (22.2)	54.77	30.65	2.41	48.21	27.89	2.80	41.73	25.13	29.52	19.83	23.96	17.33	

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 BtuH (245 kW) per 1000 CFM (480 U/S) of indoor coil air for each degree below 80°F (27°C), or add 835 BtuH (245 kW) per 1000 CFM (480 U/S) of indoor coil air per degree above 80°F (27°C).

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

†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80° F edb.

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

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

EWB — Entering Wet Bulb

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																	
EDB ° F (° C)	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)			
		Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*
25HNB24A**32 Outdoor Section With FV4CNF002 Indoor Section – HIGH																			
65 (18.3)	600	9.13	8.40	1.36	1.47	15.38	14.02	16.30	17.3	21.55	19.61	24.98	24.98	28.66	28.66	32.46	32.46	36.24	36.24
	650	9.21	8.47	1.36	1.46	15.50	14.13	15.8	18.52	16.45	1.71	21.78	25.25	28.99	28.99	32.87	32.87	37.02	37.02
	700	9.29	8.54	1.35	1.45	15.61	14.23	15.7	18.67	16.58	1.69	21.97	25.50	29.29	29.29	33.22	33.22	38.36	38.36
	800	9.42	8.67	1.35	1.44	15.79	14.40	15.5	18.92	16.80	1.67	22.30	25.92	29.78	29.78	33.75	33.75	39.50	39.50
70 (21.1)	600	8.73	8.03	1.43	1.54	15.05	13.72	16.7	17.97	15.96	1.81	21.11	24.49	28.12	28.12	31.91	31.91	35.64	35.64
	650	8.81	8.10	1.43	1.53	15.18	13.84	16.6	18.14	16.11	1.79	21.33	24.76	28.44	28.44	32.28	32.28	36.02	36.02
	700	8.89	8.18	1.42	1.52	15.29	13.94	16.4	18.29	16.24	1.77	21.53	25.00	28.74	28.74	32.62	32.62	36.40	36.40
	800	9.04	8.32	1.42	1.51	15.48	14.11	16.2	18.54	16.46	1.74	21.85	25.40	29.21	29.21	33.15	33.15	36.78	36.78
75 (23.9)	600	8.26	7.60	1.50	1.61	14.66	13.37	17.5	17.59	15.62	1.89	20.68	24.01	27.59	27.59	31.35	31.35	34.82	34.82
	650	8.34	7.67	1.49	1.60	14.81	13.50	17.3	17.75	15.76	1.86	20.89	24.27	27.90	27.90	31.71	31.71	35.20	35.20
	700	8.43	7.76	1.49	1.59	14.93	13.61	17.2	17.90	15.89	1.85	21.07	24.50	28.19	28.19	32.03	32.03	35.58	35.58
	800	8.59	7.90	1.49	1.58	15.14	13.80	17.0	18.14	16.11	1.82	21.39	24.89	28.66	28.66	32.55	32.55	35.96	35.96
25HNB24A**32 Outdoor Section With FV4CNF002 Indoor Section – LOW																			
65 (18.3)	480	4.29	3.94	1.03	1.14	10.33	9.42	1.23	13.01	11.56	1.31	15.75	17.90	20.02	20.02	22.13	22.13	25.00	25.00
	520	4.33	3.98	1.03	1.13	10.48	9.55	1.22	13.24	11.76	1.29	15.95	18.14	20.30	20.30	22.46	22.46	25.48	25.48
	560	4.38	4.03	1.03	1.13	10.61	9.67	1.21	13.47	11.96	1.28	16.13	18.36	20.57	20.57	22.77	22.77	25.86	25.86
	640	4.48	4.12	1.04	1.13	10.81	9.86	1.20	14.03	12.46	1.27	16.42	18.73	21.02	21.02	23.29	23.29	26.24	26.24
70 (21.1)	480	4.36	4.01	1.11	1.20	9.80	8.94	1.29	12.46	11.07	1.37	15.34	17.45	19.56	19.56	21.66	21.66	24.54	24.54
	520	4.41	4.06	1.11	1.20	9.96	9.08	1.28	12.66	11.25	1.36	15.53	17.69	19.84	19.84	21.98	21.98	24.92	24.92
	560	4.47	4.12	1.11	1.19	10.10	9.21	1.27	12.84	11.41	1.35	15.69	17.90	20.09	20.09	22.27	22.27	25.30	25.30
	640	4.59	4.22	1.12	1.19	10.34	9.43	1.27	13.16	11.69	1.33	16.00	18.27	20.52	20.52	22.77	22.77	25.68	25.68
75 (23.9)	480	4.10	3.77	1.18	1.26	9.23	8.41	1.35	11.89	10.56	1.44	14.87	17.02	19.10	19.10	21.20	21.20	24.08	24.08
	520	4.17	3.84	1.18	1.26	9.39	8.56	1.35	12.09	10.73	1.42	15.08	17.24	19.37	19.37	21.50	21.50	24.46	24.46
	560	4.24	3.90	1.18	1.26	9.53	8.69	1.34	12.26	10.89	1.41	15.27	17.44	19.61	19.61	21.78	21.78	24.84	24.84
	640	4.37	4.02	1.19	1.26	9.76	8.90	1.33	12.60	11.19	1.40	15.56	17.80	20.03	20.03	22.26	22.26	25.22	25.22

See notes on pg. 20

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																						
EDB ° F (° C)	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)								
		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh		Capacity MBtuh								
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*							
		25HNB36A**31 Outdoor Section With FV4CNE006 Indoor Section - HIGH																						
65 (18.3)	900	13.75	12.65	1.90	17.91	16.46	2.01	22.88	20.87	21.5	26.93	23.92	2.28	31.23	28.42	2.42	35.79	35.79	40.74	40.74	2.81	46.22	46.22	3.03
	975	13.88	12.77	1.90	18.06	16.60	2.00	23.03	21.00	21.3	27.11	24.08	2.25	31.46	28.63	2.38	36.10	36.10	41.16	41.16	2.75	46.68	46.68	2.94
	1050	13.99	12.87	1.90	18.20	16.72	1.99	23.16	21.12	21.1	27.27	24.22	2.22	31.66	28.81	2.35	36.37	36.37	41.52	41.52	2.71	46.97	46.97	2.88
	1200	14.18	13.05	1.89	18.44	16.94	1.98	23.36	21.30	20.9	27.54	24.46	2.19	32.02	29.14	2.31	36.81	36.81	42.09	42.09	2.61	47.10	47.10	2.79
70 (21.1)	900	13.21	12.15	2.00	17.38	15.97	2.11	21.98	20.04	22.5	26.55	23.58	2.39	30.75	27.99	2.54	35.23	35.23	40.04	40.04	2.93	45.39	45.39	3.18
	975	13.33	12.28	1.99	17.52	16.10	2.10	22.62	20.63	22.4	26.72	23.73	2.36	30.98	28.19	2.50	35.54	35.54	40.45	40.45	2.87	45.96	45.96	3.08
	1050	13.44	12.36	1.99	17.66	16.23	2.09	22.76	20.75	22.2	26.87	23.86	2.34	31.18	28.38	2.47	35.80	35.80	40.80	40.80	2.83	46.28	46.28	3.01
	1200	13.63	12.54	1.99	17.89	16.44	2.08	22.99	20.96	22.0	27.13	24.09	2.30	31.52	28.69	2.42	36.23	36.23	41.38	41.38	2.73	46.54	46.54	2.92
75 (23.9)	900	12.66	11.65	2.10	16.83	15.47	2.22	21.26	19.38	23.5	26.16	23.24	2.52	30.29	27.56	2.67	34.68	34.68	39.35	39.35	3.07	44.58	44.58	3.33
	975	12.77	11.75	2.09	16.98	15.60	2.21	21.45	19.56	23.3	26.31	23.37	2.48	30.51	27.76	2.63	34.98	34.98	39.75	39.75	3.01	45.14	45.14	3.22
	1050	12.88	11.85	2.09	17.11	15.72	2.20	21.63	19.72	23.2	26.46	23.50	2.46	30.70	27.94	2.59	35.24	35.24	40.09	40.09	2.96	45.55	45.55	3.15
	1200	13.05	12.01	2.09	17.31	15.91	2.19	21.92	19.98	23.0	26.72	23.73	2.42	31.04	28.24	2.55	35.66	35.66	40.65	40.65	2.88	45.91	45.91	3.05
		25HNB36A**31 Outdoor Section With FV4CNE006 Indoor Section - LOW																						
65 (18.3)	720	9.56	8.80	1.68	12.50	11.49	1.68	15.65	14.27	1.69	18.88	16.77	1.70	22.67	20.63	1.75	25.24	25.24	27.66	27.66	1.83	29.86	29.86	1.90
	780	9.69	8.91	1.68	12.65	11.62	1.67	15.82	14.42	1.67	19.08	16.95	1.69	22.85	20.80	1.73	25.45	25.45	27.93	27.93	1.79	30.18	30.18	1.84
	840	9.80	9.01	1.68	12.78	11.74	1.67	15.97	14.56	1.66	19.26	17.11	1.67	23.02	20.95	1.70	25.64	25.64	28.16	28.16	1.75	30.46	30.46	1.80
	960	9.97	9.17	1.68	13.00	11.94	1.66	16.23	14.80	1.65	19.57	17.38	1.65	23.28	21.19	1.67	25.95	25.95	28.55	28.55	1.69	30.92	30.92	1.72
70 (21.1)	720	8.75	8.05	1.75	11.78	10.83	1.75	14.99	13.67	1.76	18.26	16.22	1.79	21.73	19.77	1.83	24.82	24.82	27.20	27.20	1.94	29.37	29.37	2.00
	780	8.86	8.15	1.75	11.92	10.96	1.74	15.16	13.82	1.75	18.47	16.41	1.77	22.39	20.38	1.82	25.02	25.02	27.46	27.46	1.89	29.68	29.68	1.95
	840	8.96	8.25	1.75	12.05	11.07	1.74	15.30	13.95	1.74	18.65	16.56	1.75	22.56	20.53	1.81	25.20	25.20	27.69	27.69	1.85	29.95	29.95	1.90
	960	9.14	8.41	1.75	12.26	11.27	1.73	15.56	14.18	1.73	18.93	16.81	1.73	22.84	20.79	1.76	25.51	25.51	28.07	28.07	1.79	30.41	30.41	1.82
75 (23.9)	720	7.99	7.26	1.82	11.03	10.14	1.83	14.31	13.05	1.84	17.64	15.67	1.87	20.94	19.06	1.92	24.42	24.42	26.74	26.74	2.04	28.85	28.85	2.11
	780	7.99	7.35	1.82	11.17	10.26	1.82	14.47	13.20	1.83	17.84	15.84	1.86	21.19	19.29	1.89	24.62	24.62	26.99	26.99	1.99	29.17	29.17	2.05
	840	8.09	7.44	1.82	11.29	10.37	1.82	14.62	13.33	1.82	18.01	16.00	1.84	21.44	19.51	1.87	24.79	24.79	27.22	27.22	1.95	29.44	29.44	2.00
	960	8.25	7.59	1.82	11.44	10.51	1.81	14.82	13.51	1.81	18.25	16.21	1.82	21.76	19.80	1.83	25.07	25.07	27.59	27.59	1.89	29.89	29.89	1.93

See notes on pg. 20

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																
EDB °F (°C)	CFM	-3 (-19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)		
		Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	Capacity MBtuh	Total Sys. KwT	
		Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	Total	Integ*	
25HNB648A**31 Outdoor Section With FV4CN(B,F)005 Indoor Section - HIGH																		
65 (18.3)	1200	17.97	16.53	2.66	23.15	21.27	2.84	29.85	27.03	3.08	35.05	31.13	3.29	40.86	37.19	3.54	47.00	
	1300	18.06	16.61	2.65	23.28	21.39	2.83	29.83	27.19	3.06	35.29	31.35	3.27	41.21	37.50	3.50	47.42	
	1400	18.16	16.70	2.65	23.41	21.51	2.83	29.87	27.33	3.04	35.51	31.53	3.25	41.51	37.77	3.48	47.81	
	1600	18.34	16.88	2.66	23.67	21.75	2.83	30.22	27.56	3.03	35.87	31.86	3.22	42.01	38.23	3.45	48.45	
	1200	17.65	16.24	2.82	22.65	20.81	3.00	29.20	26.63	3.23	34.52	30.66	3.45	40.17	36.56	3.69	46.20	
70 (21.1)	1300	17.75	16.33	2.82	22.80	20.95	2.99	29.41	26.81	3.21	34.77	30.88	3.42	40.52	36.87	3.66	46.62	
	1400	17.87	16.44	2.82	22.97	21.10	2.99	29.59	26.98	3.20	34.99	31.08	3.40	40.82	37.15	3.63	47.00	
	1600	18.11	16.66	2.83	23.27	21.38	2.99	29.81	27.27	3.19	35.38	31.42	3.38	41.34	37.62	3.60	47.64	
	1200	17.13	15.76	2.99	22.03	20.25	3.16	27.68	25.23	3.36	33.94	30.15	3.61	39.48	35.93	3.86	45.41	
	1300	17.26	15.88	2.99	22.20	20.40	3.15	27.91	25.45	3.34	34.20	30.37	3.58	39.82	36.23	3.82	45.82	
75 (23.9)	1400	17.40	16.01	2.99	22.38	20.57	3.14	28.16	25.67	3.33	34.43	30.58	3.56	40.12	36.51	3.79	46.19	
	1600	17.67	16.25	3.00	22.71	20.87	3.15	28.66	26.13	3.33	34.84	30.94	3.54	40.64	36.98	3.76	46.82	
	25HNB648A**31 Outdoor Section With FV4CN(B,F)005 Indoor Section - LOW																	
	65 (18.3)	960	10.75	9.89	2.21	15.52	14.27	2.28	20.06	18.29	2.35	24.42	21.69	2.42	29.36	26.71	2.53	33.07
		1040	10.91	10.03	2.22	15.72	14.45	2.28	20.30	18.50	2.34	24.72	21.96	2.40	29.61	26.94	2.49	33.39
1120		11.03	10.15	2.22	15.89	14.60	2.28	20.50	18.69	2.33	24.98	22.18	2.39	29.85	27.16	2.47	33.67	
1280		11.26	10.36	2.23	16.19	14.88	2.28	20.85	19.01	2.32	25.43	22.58	2.36	30.22	27.50	2.43	34.15	
960		9.82	9.03	2.31	14.61	13.43	2.39	19.16	17.47	2.46	23.53	20.89	2.54	28.66	26.08	2.66	32.39	
70 (21.1)	1040	9.96	9.16	2.31	14.79	13.59	2.38	19.39	17.68	2.45	23.82	21.16	2.52	28.96	26.35	2.62	32.72	
	1120	10.08	9.28	2.32	14.97	13.75	2.38	19.61	17.88	2.44	24.08	21.39	2.50	29.21	26.58	2.60	33.00	
	1280	10.31	9.48	2.33	15.26	14.02	2.39	19.97	18.21	2.43	24.53	21.78	2.48	29.61	26.95	2.56	33.48	
	960	9.86	9.07	2.43	13.59	12.49	2.49	18.18	16.58	2.57	22.58	20.06	2.66	27.03	24.60	2.76	31.72	
	1040	9.99	9.19	2.44	13.77	12.66	2.49	18.41	16.78	2.56	22.88	20.32	2.64	27.47	25.00	2.73	32.04	
75 (23.9)	1120	9.77	8.99	2.44	13.94	12.81	2.49	18.63	16.99	2.56	23.13	20.55	2.62	27.91	25.40	2.71	32.32	
	1280	9.98	9.18	2.45	14.24	13.08	2.50	18.99	17.32	2.55	23.58	20.94	2.60	28.92	26.32	2.69	32.79	

See notes on pg. 20

HEAT PUMP HEATING PERFORMANCE CONTINUED

INDOOR AIR		-3 (-19.4)						7 (-13.9)				17 (-8.3)				27 (-2.8)				37 (2.8)				47 (8.3)				57 (13.9)				67 (19.4)			
EDB °F (°C)	CFM	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†				
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	Total	Integ*
65 (18.3)		1500	23.79	21.88	3.26	29.29	26.92	3.46	36.45	33.23	3.72	42.81	38.02	3.97	50.01	45.51	4.27	57.93	57.93	4.83	66.85	66.85	4.98	75.37	75.37	5.43									
		1625	24.02	22.09	3.27	29.64	27.14	3.46	36.69	33.45	3.71	43.07	38.25	3.95	50.33	45.80	4.24	58.31	58.31	4.58	67.16	67.16	4.91	75.53	75.53	5.33									
		1750	24.26	22.32	3.28	29.79	27.38	3.47	36.89	33.63	3.70	43.31	38.47	3.94	50.62	46.07	4.22	58.70	58.70	4.53	67.40	67.40	4.86	75.47	75.47	5.25									
		2000	24.72	22.74	3.32	30.26	27.80	3.49	37.26	33.97	3.71	43.75	38.86	3.93	51.14	46.53	4.20	59.34	59.34	4.47	67.57	67.57	4.79	72.61	72.61	5.06									
		1500	22.84	21.01	3.40	28.50	26.19	3.61	36.04	32.86	3.88	42.34	37.61	4.15	49.45	45.00	4.46	57.25	57.25	4.83	66.02	66.02	5.19	74.43	74.43	5.65									
70 (21.1)		1625	23.07	21.22	3.41	28.74	26.41	3.61	36.27	33.07	3.87	42.61	37.84	4.13	49.77	45.29	4.43	57.63	57.63	4.78	66.38	66.38	5.11	74.67	74.67	5.55									
		1750	23.30	21.44	3.42	28.99	26.64	3.62	36.48	33.26	3.87	42.85	38.06	4.11	50.06	45.55	4.40	58.00	58.00	4.74	66.64	66.64	5.06	74.68	74.68	5.47									
		2000	23.75	21.85	3.46	29.44	27.06	3.64	36.85	33.60	3.88	43.28	38.44	4.11	50.57	46.02	4.38	58.68	58.68	4.67	66.90	66.90	4.99	72.84	72.84	5.30									
		1500	21.87	20.12	3.54	27.71	25.46	3.76	34.56	31.51	4.03	41.89	37.21	4.34	48.89	44.49	4.66	56.55	56.55	5.03	65.16	65.16	5.40	73.45	73.45	5.88									
		1625	22.08	20.32	3.55	27.94	25.67	3.77	34.84	31.76	4.02	42.15	37.43	4.31	49.21	44.78	4.62	56.94	56.94	4.98	65.56	65.56	5.33	73.74	73.74	5.78									
75 (23.9)		1750	22.32	20.53	3.57	28.18	25.90	3.77	35.20	32.09	4.02	42.39	37.65	4.30	49.50	45.05	4.80	57.30	57.30	4.94	65.85	65.85	5.27	73.83	73.83	5.70									
		2000	22.75	20.93	3.60	28.63	26.31	3.80	36.40	33.19	4.05	42.82	38.03	4.29	50.01	45.51	4.57	57.99	57.99	4.87	66.19	66.19	5.20	72.85	72.85	5.55									
		25HNB660A**32 Outdoor Section With FVACNB006 Indoor Section – HIGH																																	
		25HNB660A**32 Outdoor Section With FVACNB006 Indoor Section – LOW																																	
65 (18.3)		1200	13.69	12.59	2.67	19.50	17.92	2.75	25.04	22.83	2.84	30.30	26.91	2.94	35.80	32.58	3.07	39.55	39.55	3.18	42.98	42.98	3.30	46.15	46.15	3.40									
		1300	13.81	12.71	2.68	19.67	18.08	2.75	25.29	23.05	2.83	30.62	27.19	2.92	36.10	32.85	3.04	39.97	39.97	3.13	43.47	43.47	3.24	46.62	46.62	3.32									
		1400	13.95	12.83	2.69	19.87	18.26	2.75	25.53	23.27	2.83	30.92	27.46	2.90	36.39	33.11	3.01	40.32	40.32	3.09	43.89	43.89	3.19	47.03	47.03	3.26									
		1600	14.22	13.08	2.71	20.21	18.57	2.77	25.94	23.65	2.82	31.45	27.93	2.89	36.86	33.54	2.97	40.89	40.89	3.04	44.64	44.64	3.10	47.64	47.64	3.18									
		1200	12.56	11.56	2.79	18.42	16.93	2.87	23.98	21.87	2.97	29.23	25.96	3.07	35.00	31.85	3.22	38.74	38.74	3.33	42.09	42.09	3.46	45.24	45.24	3.57									
70 (21.1)		1300	12.73	11.72	2.80	18.60	17.09	2.87	24.24	22.10	2.96	29.55	26.25	3.05	35.36	32.17	3.19	39.13	39.13	3.29	42.58	42.58	3.40	45.78	45.78	3.49									
		1400	12.89	11.86	2.81	18.80	17.28	2.88	24.50	22.33	2.96	29.87	26.53	3.04	35.67	32.48	3.16	39.50	39.50	3.25	43.01	43.01	3.35	46.18	46.18	3.43									
		1600	13.13	12.08	2.83	19.16	17.61	2.89	24.93	22.73	2.95	30.41	27.01	3.02	36.13	32.88	3.12	40.09	40.09	3.20	43.75	43.75	3.27	46.81	46.81	3.34									
		1200	12.10	11.14	2.92	17.17	15.78	3.00	22.80	20.79	3.10	28.07	24.93	3.21	33.24	30.25	3.34	37.87	37.87	3.50	41.18	41.18	3.63	44.31	44.31	3.75									
		1300	12.28	11.30	2.93	17.37	15.96	3.00	23.05	21.02	3.09	28.41	25.23	3.19	33.69	30.66	3.31	38.28	38.28	3.45	41.66	41.66	3.57	44.86	44.86	3.66									
75 (23.9)		1400	12.44	11.44	2.94	17.58	16.15	3.00	23.32	21.26	3.09	28.73	25.51	3.18	34.38	31.28	3.30	38.63	38.63	3.41	42.08	42.08	3.52	45.31	45.31	3.60									
		1600	11.89	10.94	2.95	17.95	16.50	3.02	23.79	21.69	3.09	29.27	25.99	3.16	35.34	32.16	3.28	39.23	39.23	3.36	42.79	42.79	3.45	45.96	45.96	3.51									

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

‡ The Bluh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Bluh heating from supplement heaters should be added to those values to obtain total system capacity.

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

EDB — Entering Dry Bulb

GUIDE SPECIFICATIONS

GENERAL

System Description

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

Quality Assurance

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

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

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

Unit Cabinet

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

Fans

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

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP

25HNB6

2 TO 5 NOMINAL TONS

- 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 back-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, and reversing valve.
- Unit will be equipped with high-pressure switch, loss-of-charge switch, 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.

Special Features

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

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. The maximum outdoor operating ambient in cooling mode is 125°F (51.67°C) when operating voltage is 230v. For 208v applications, the maximum outdoor ambient is 120°F (48.9°C).
4. Minimum outdoor operating air temperature for heating mode is -20°F (-28.9°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
8. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Do not apply capillary tube indoor coils to these units.
11. Factory-supplied filter drier must be installed.

[illegible]

