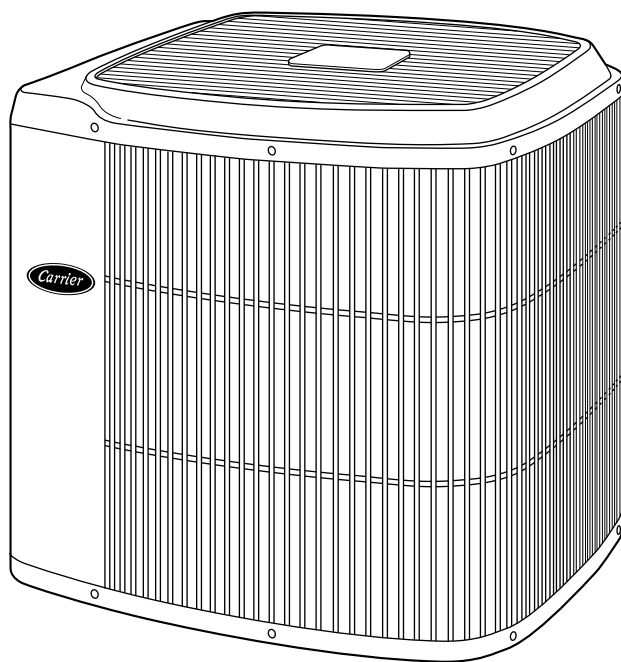




Product Data

SYNERGY 2000 38YDA (60 Hz) Two-Speed Electric Heat Pump

Sizes 036, 048, and 060



Model 38YDA Heat Pumps incorporate innovative 2-speed compressor technology to provide quietly efficient summer cooling and winter heating performance. Built into these units are features most desired by homeowners today, including SEER ratings up to 16.1 and HSPF of 8.8 when used with the components designated by the manufacturer. All models are UL and CSA approved. Performance ratings are ARI and CEC listed.

FEATURES/BENEFITS

Electrical Range — All units are offered in 208/230v single phase. Simplified field-stripped lead wire connections facilitate ease of installation.

Wide Range of Sizes — Available in 3 nominal sizes 036, 048, and 060 to meet the needs for residential applications.

Weather-Armor II Cabinet — Steel is protected with a heavy coating commonly called “galvanizing,” and coated with a layer of zinc phosphate. A coat of modified polyester powder coating is then applied and baked on providing each unit with a hard, smooth finish that will last for many years.

All screws on the cabinet exterior are ceramic coated for a long-lasting, rust-resistant, high-quality appearance.

Unit Design — The coil incorporates copper tubing and enhanced, aluminum fins for optimum heat transfer. Hot condenser air and sound are discharged vertically and away from adjacent patio areas and foliage through the top. Polymer spacers raise the coil in a deep draw-style basepan

for easy removal of water, dirt, and debris.

An electronic ICM fan motor provides multispeed operation and enhanced low-speed efficiencies and sound levels.

Auto-reset high- and loss of charge pressure switches continuously monitor system operation.

Mechanical and electrical interlocks between the low- and high-speed contactors eliminate the potential of compressor motor burnout due to contactor malfunction.

A compressor crankcase heater, energized at the proper temperature during the compressor off cycle, helps to provide reliable starting.

Application Versatility — The 38YDA can be combined with a wide variety of evaporator coils, fan coils, and furnaces to provide quiet, dependable comfort. Unit can be installed on a roof or at ground level on a slab.

External Service Valves — Both service valves are brass, back seating

type with sweat connections. Valves are externally located so refrigerant connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.

Easy Serviceability — Removal of access panel and control box cover provides easy access to all electrical controls and compressor. Removal of top provides access to fan motor and coil.

A self-diagnostic indicator on the electronic control board informs the service technician of the problem area.

Compressor Protection — Each compressor is protected with internal PTC-type overloads. An internal pressure relief valve provides high-pressure protection to the refrigerant system.

Standard Features — An electronic control eliminates excessive wiring, and features selectable second-stage latching, TimeGuard II® short cycle protection, a malfunction output signal to the indoor thermostat, built in Optimizer II®, zoning interface, and

outdoor thermostat for auxiliary heat staging.

A compressor sound hood and discharge muffler provides improved sound power levels as well as sound quality.

Compressor Quick Start — Capacitor and relay.

Thermostatic Expansion Valve — This unit must be installed with a TXV on the indoor coil. The FK4 and FC4 indoor fan coils come factory equipped with a bi-flow TXV. When installed in this application, no further change is required. If any other indoor fan coil or furnace coil is used, an accessory bi-flow TXV must be installed. See accessory list in this publication for correct part number. TXV is not shipped with unit.

Warranty — One-year limited warranty on all parts with an extended second-year warranty on the control board and extended second- through tenth-year limited warranty on the compressor. Refer to warranty certificate for specific details.

Model number nomenclature



Physical data

UNIT SIZE	036	048	060
OPERATING WEIGHT (lb)	316	316	318
REFRIGERANT Cooling Control Heating Piston	57	22 TXV 70	70
CHARGE (lb)	15.6	14.6	14.4
COND FAN Air Discharge Air Qty (CFM) — High Speed	Propeller Type, Direct Drive Vertical 2650 3200		
COND COIL Face Area (sq ft)	Copper Tube, Aluminum Plate Fin 18.0		
VALVE CONNECT. (in. ID) Vapor Liquid	Sweat 7/8 3/8		
REFRIG TUBES* (in. OD) Vapor Liquid	7/8	3/8	1-1/8

* Tube sizes are for runs up to 100 ft. Maximum tube set length is 100 ft.
NOTE: See unit Installation Instructions for proper installation.

Accessories

ORDERING NUMBER	DESCRIPTION
KHASS0206MPK	Snow Rack
KSASF0101AAA	Support Feet (4)
KHATX1501HSO	Thermostatic Expansion Valve (Required)
P504-8163S (RCD)	Filter Drier — Bi-flow

THERMOSTAT AND SUBBASE	DESCRIPTION
--HH--07AT-201	2-stage Heat, 2-stage Cool — °F/°C, Auto/Manual Changeover (Use Subbase --HH--93AZ-215)
--HH--93AZ-215	Subbase — Heat/Cool, Auto Changeover for --HH--07AT-201
--HH--07AX-112	2-stage Heat, 2-stage Cool — °F/°C, Electronic Night Setback

Accessory Description and Usage

1. Snow Rack

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

SUGGESTED USE: Heat pump installations in heavy snowfall areas.

Heat pump installations in snowdrift locations.

Heat pump installations in areas of prolonged subfreezing temperatures.

All commercial installations.

2. Support Feet

Four stick-on plastic feet which raise the unit 4 in. above the mounting pad. This allows sand, dirt and other debris to be flushed from the unit base; minimizes corrosion.

SUGGESTED USE: All installations except where heavy snowfall occurs.

3. Thermostatic Expansion Valve (TXV) Kit

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. Kit includes valve, adapter tubes, external equalizer tube.

SUGGESTED USE: Required for proper system performance. (Refer to ARI Unitary Directory.)

4. Filter Drier — Bi-flow

A device for removing contaminants from refrigerant circulating in a heat pump system; 2-direction flow for heat pumps.

SUGGESTED USE: Split-system heat pumps.

5. Indoor Thermostat (--HH--07AT-201)

Manual or auto changeover design; 2-stage cool; 2-stage heat; malfunction indicator light; speed indicator light; branded. (Use subbase HH93AZ215.)

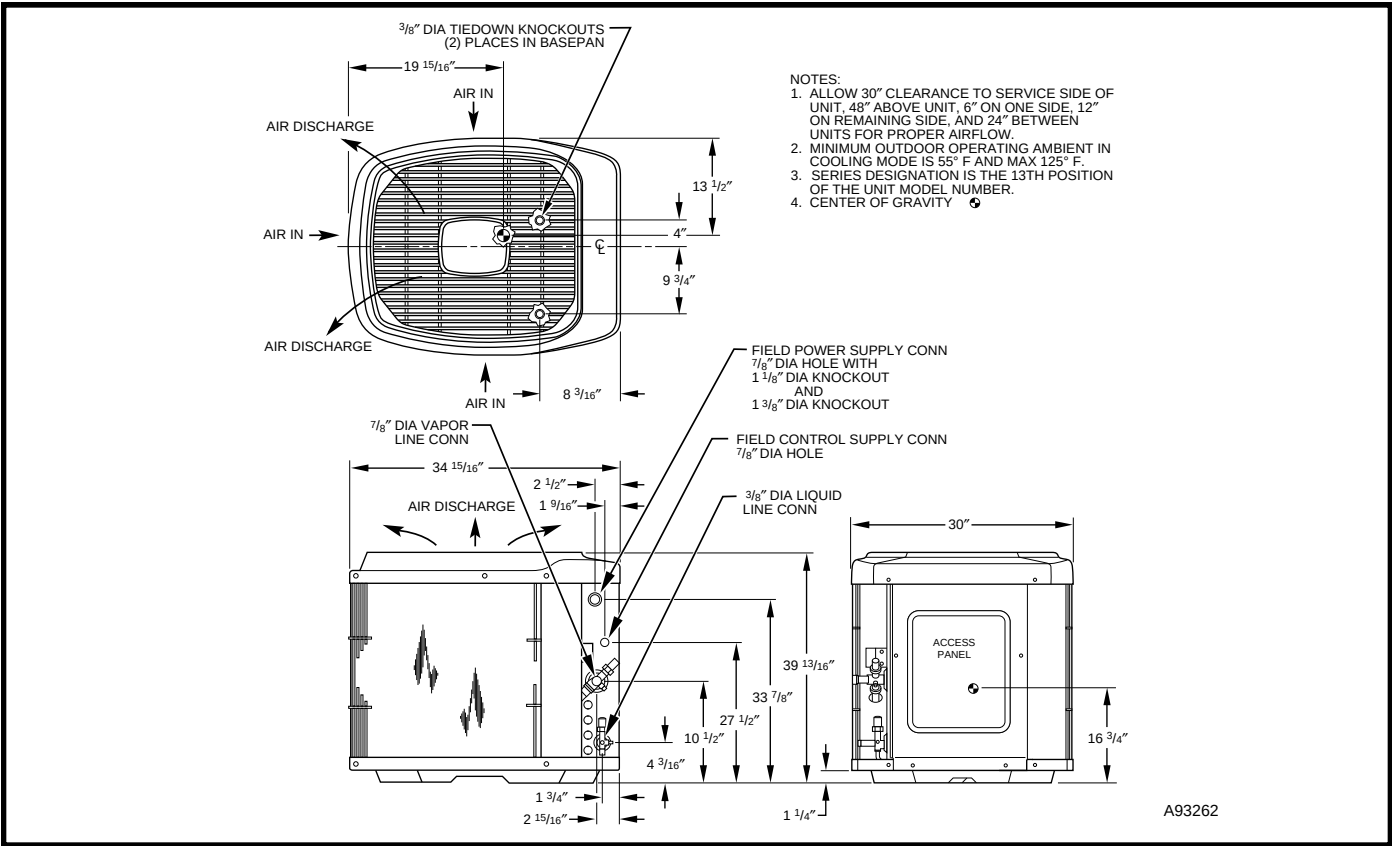
6. Subbase (--HH--93AZ-215)

Used with Thermostat --HH--07AT-199

7. Night Setback Thermostat (--HH--07AX-112)

Electronic thermostat and subbase, night setback, manual or auto changeover, 2-stage heat, 2-stage cool, malfunction light, auxiliary heat light, speed indicator lights.

Dimensions



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI.

Electrical data

UNIT SIZE-SERIES	V/PH	OPER VOLTS*		COMPRESSOR		FAN FLA	MCA	MIN WIRE SIZE 60°C/75°C**	MAX LENGTH (Ft)† 60°C/75°C**	MAX FUSE† OR HACR TYPE CKT BKR AMPS
		Max	Min	LRA	RLA					
036-30	208/230/1	253	187	90.0	17.6	1.5	23.5	12/12	52/50	40
048-30				120.0	23.6	1.5	31.0	8/10	100/61	50
060-30				141.0	30.8	1.5	40.0	8/8	78/74	60

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

† Time-delay fuse.

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

** If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEC (ANSI/NFPA 70).

The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conductors, per the NEC (ANSI/NFPA 70) Article 336-26.

If other than uncoated (non-plated), 60 or 75°C (140 or 167°F) insulation, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

FLA — Full Load Amps

HACR — Heating, Air Conditioning, Refrigeration

LRA — Locked Rotor Arms

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

NOTE: Control circuit is 24-v on all units and requires external power source 27va minimum. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

Performance data

UNIT SIZE	INDOOR MODEL	EVAP AIR CFM		COOLING CAPACITY		SEASONAL EFF (SEER)	HEATING CAPACITY		SEASONAL EFF (HSPF)	SOUND RATING (BELS)
		High	Low	High	Low		High†	Low		
036	FK4BNB006*	1180	825	40,000	22,000	16.10	35,000	21,600	8.80	7.6
	FK4BNB005	1200	775	38,500	22,000	15.75	35,000	21,000	8.50	7.6
	FK4BNF004	1150	690	37,000	21,000	15.00	35,000	21,000	8.40	7.6
	FK4BNF003	1120	710	37,400	21,000	15.00	33,600	20,400	8.20	7.6
	FK4BNF002	1250	770	36,800	21,000	14.50	35,000	21,000	8.00	7.6
	FK4BNF001	1250	770	36,000	20,000	14.20	33,400	20,000	7.50	7.6
	F(A,B)4ANF036	1287	1287	36,000	20,000	11.80	34,000	22,000	7.50	7.6
	F(A,B)4AN(F,B)042	1230	1230	37,400	21,000	12.30	34,000	22,000	7.70	7.6
	FC4BNF036	1287	1287	36,000	20,000	11.80	34,000	22,000	7.50	7.6
	FC4BN(F,B)042	1230	1230	37,400	21,000	12.30	34,000	22,000	7.70	7.6
	CC5A/CD5A/CD5BA036	1400	850	37,600	20,800	13.00	34,000	21,400	7.75	7.6
	CD3(A,B)A036	1400	850	37,600	20,800	13.00	34,000	21,400	7.75	7.6
	CC5A/CD5A/CD5BW042	1400	850	37,600	20,600	12.90	34,000	21,400	7.75	7.6
	CE3AA036	1400	850	37,000	20,000	12.80	33,400	21,400	7.50	7.6
	CE3AA042	1400	850	37,600	20,600	13.00	33,600	21,600	7.60	7.6
	CF5AA036	1400	850	34,000	21,000	13.00	34,000	21,000	7.50	7.6
	CD5A/CD5BW036	1400	850	37,600	20,800	13.00	34,000	21,400	7.75	7.6
	CC5A/CD5A/CD5BA042	1400	850	37,600	20,800	13.00	34,000	21,400	7.75	7.6
	CD3(A,B)A042	1400	850	37,600	20,800	13.00	34,000	21,400	7.75	7.6
	COILS + 58MVP060-14 VARIABLE-SPEED FURNACE									
	CC5A/CD5A/CD5BA036	1200	800	37,000	21,000	14.50	33,000	20,800	7.80	7.6
	CD3(A,B)A036	1200	800	37,000	21,000	14.50	33,000	20,800	7.80	7.6
	CD5A/CD5BW036	1200	800	37,000	21,000	14.50	33,000	20,800	7.80	7.6
	CC5A/CD5A/CD5BA042	1200	800	37,000	21,000	14.50	33,000	20,800	7.80	7.6
	CC5A/CD5A/CD5BW042	1200	800	37,000	21,000	14.00	33,000	20,800	7.80	7.6
	CE3AA036	1200	800	36,000	20,000	14.00	33,000	20,800	7.80	7.6
	CE3AA042	1200	800	37,000	21,000	14.20	33,000	20,800	7.80	7.6
	CD3(A,B)A042	1200	800	37,000	21,000	14.50	33,000	20,800	7.80	7.6
	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE									
	CC5A/CD5A/CD5BA036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CD3(A,B)A036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CD5A/CD5BW036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CC5A/CD5A/CD5BA042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CC5A/CD5A/CD5BW042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CE3AA036	1200	800	36,000	20,000	14.20	33,000	20,600	7.80	7.6
	CE3AA042	1200	800	37,000	21,000	14.70	33,000	20,800	7.80	7.6
	CD3(A,B)A042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE									
	CC5A/CD5A/CD5BA036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CD3(A,B)A036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CD5A/CD5BW036	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CC5A/CD5A/CD5BA042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CC5A/CD5A/CD5BW042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
	CE3AA036	1200	800	36,000	20,000	14.20	33,000	20,600	7.80	7.6
	CE3AA042	1200	800	37,000	21,000	14.70	33,000	20,800	7.80	7.6
	CD3(A,B)A042	1200	800	37,000	21,000	14.70	33,000	20,800	8.00	7.6
048	FK4BNB006*	1575	1100	51,000	28,600	14.50	50,000	27,000	8.40	7.8
	FK4BNB070	1800	1800	51,500	28,600	11.80	50,500	29,000	8.00	7.8
	FC4BN(F,B)060	1800	1800	50,000	28,600	11.00	50,000	27,000	7.70	7.8
	F(A,B)4AN(F,B)048	1800	1800	48,000	28,000	11.30	50,000	27,000	7.70	7.8
	F(A,B)4AN(F,B)060	1800	1800	50,000	28,600	11.00	50,000	27,000	7.70	7.8
	FB4ANB070	1800	1800	51,500	28,600	11.80	50,500	29,000	8.00	7.8
	FC4BN(F,B)048	1800	1800	48,000	28,000	11.30	50,000	27,000	7.70	7.8
	CD5A/CD5BA048	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CD3(A,B)A048	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CC5A/CD5A/CD5BA060	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CD3(A,B)A060	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CC5A/CD5A/CD5BW048	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CC5A/CD5A/CD5BW060	1850	1050	49,000	27,000	12.40	49,500	27,000	7.80	7.8
	CE3AA048	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	CE3AA060	1850	1050	49,000	27,000	12.40	49,500	27,000	7.80	7.8
	CF5AA048	1850	1050	48,000	26,000	12.00	49,000	27,000	7.60	7.8
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE									
	CD5A/CD5BA048	1600	1000	47,000	26,000	13.00	49,000	26,000	7.80	7.8
	CD3(A,B)A048	1600	1000	47,000	26,000	13.00	49,000	26,000	7.80	7.8
	CC5A/CD5A/CD5BW048	1600	1000	47,000	26,000	13.00	49,000	26,000	7.80	7.8
	CC5A/CD5A/CD5BW060	1600	1000	48,000	26,400	13.40	49,500	26,200	8.00	7.8
	CE3AA048	1600	1000	47,000	26,000	13.00	49,000	26,000	7.70	7.8
	CE3AA060	1600	1000	48,000	26,400	13.40	49,000	26,000	7.80	7.8
	CC5A/CD5A/CD5BA060	1600	1000	47,000	26,000	13.00	49,500	26,200	7.80	7.8
	CD3(A,B)A060	1600	1000	47,000	26,000	13.00	49,000	26,000	7.80	7.8

See notes on pg. 6.

Performance data continued

UNIT SIZE	INDOOR MODEL	EVAP AIR CFM		COOLING CAPACITY		SEASONAL EFF (SEER)	HEATING CAPACITY		SEASONAL EFF (HSPF)	SOUND RATING (BELS)
		High	Low	High	Low		High†	Low		
060	FK4BNB006*	1865	1300	57,000	32,000	14.00	52,000	31,800	8.30	8.0
	F(A,B)4AN(F,B)060	2000	2000	56,000	32,000	10.80	52,000	34,000	7.70	8.0
	FB4ANB070	2005	2005	57,000	32,000	11.60	52,000	34,000	8.00	8.0
	FC4BN(F,B)060	2000	2000	56,000	32,000	10.80	52,000	34,000	7.70	8.0
	FC4BNB070	2005	2005	57,000	32,000	11.60	52,000	34,000	8.00	8.0
	CC5A/CD5A/CD5BA060	2100	1200	54,500	30,200	11.70	49,500	31,000	7.70	8.0
	CD3(A,B)A060	2100	1200	54,500	30,200	11.70	49,500	31,000	7.70	8.0
	CC5A/CD5A/CD5BW060	2100	1200	56,000	30,800	12.00	51,000	31,000	7.80	8.0
	CE3AA060	2100	1200	56,000	30,800	12.00	50,000	31,000	7.80	8.0
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE									
	CC5A/CD5A/CD5BA060	1600	1000	52,500	30,000	12.80	47,500	29,600	7.60	8.0
	CD3(A,B)A060	1600	1000	52,500	30,000	12.80	47,500	29,600	7.60	8.0
	CC5A/CD5A/CD5BW060	1600	1000	54,000	30,000	13.00	48,500	30,000	7.80	8.0
	CE3AA060	1600	1000	54,000	30,000	13.00	48,500	30,000	7.80	8.0

* Tested combination.

† Capacities shown are at ARI rating point 47°F, high speed. Unit is factory shipped to operate on low speed at 47°F. See Heat Pump Heating Performance tables for low speed capacity at 47°F.

- NOTES:**
1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
 2. Rating values reflect coil combinations plus field-installed TXV (except when specifying FK4 and FC4 coils).
 3. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for heat pumps. Ratings for other combinations are determined under DOE computer simulation procedures.
 4. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
 5. Do not apply to capillary tube coils.
 6. Unit is factory set to change speeds in heating mode based on ambient temperature. See Ambient Temperatures for High- and Low-Speed Operation table for speed change temperatures.
 7. Coefficient of Performance (COP) can be calculated by using the Heat Pump Heating Performance tables. Normally the high temperature COP is calculated at 47°F, and the low temperature COP is calculated at 17°F. The formula for calculating the COP is as follows:

$$\text{COP} = \frac{\text{THC}}{\text{KW} \times 3.413}$$

THC=total heating capacity at either 47°F or 17°F, 70°F indoor dry bulb and rated airflow.

KW=power input in kilowatts.

AMBIENT TEMPERATURES FOR HIGH- AND LOW-SPEED OPERATION

UNIT SIZE	AMBIENT TEMPERATURE (°F)	
	High Speed	Low Speed
036	30 or less	31 or greater
048	33 or less	34 or greater
060	40 or less	41 or greater

Detailed cooling capacities*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
High Speed 38YDA036-30 Outdoor Section With FK4BNB006 Indoor Section													
880	72	44.2	21.2	3.30	41.7	20.2	3.53	39.2	19.3	3.76	36.7	18.3	3.98
	67	39.9	25.6	3.20	37.6	24.6	3.42	35.3	23.6	3.62	32.9	22.6	3.82
	63††	36.8	24.8	3.12	34.6	23.8	3.33	32.4	22.8	3.52	30.2	21.8	3.70
	62	35.9	29.9	3.10	33.8	28.8	3.30	31.7	27.8	3.49	29.5	26.8	3.67
	57	33.2	33.2	3.02	31.6	31.6	3.23	30.0	30.0	3.43	28.3	28.3	3.62
980	72	45.3	22.1	3.34	42.7	21.1	3.58	40.1	20.1	3.81	37.5	19.1	4.03
	67	40.9	27.0	3.24	38.5	25.9	3.46	36.1	24.9	3.67	33.6	23.9	3.87
	63††	37.8	26.1	3.16	35.5	25.1	3.37	33.2	24.1	3.57	30.8	23.0	3.75
	62	37.0	31.7	3.14	34.7	30.7	3.35	32.5	29.6	3.54	30.3	28.6	3.72
	57	34.7	34.7	3.08	33.0	33.0	3.29	31.3	31.3	3.50	29.6	29.6	3.69
1080	72	46.2	22.9	3.38	43.6	21.9	3.62	40.8	20.9	3.85	38.1	19.9	4.07
	67	41.8	28.3	3.28	39.3	27.2	3.50	36.8	26.2	3.72	34.3	25.2	3.92
	63††	38.6	27.4	3.20	36.3	26.3	3.41	33.9	25.3	3.61	31.5	24.2	3.80
	62	37.8	33.5	3.18	35.5	32.5	3.39	33.2	31.4	3.59	31.0	30.3	3.77
	57	36.1	36.1	3.14	34.4	34.4	3.35	32.6	32.6	3.56	30.7	30.7	3.76
1180	72	47.0	23.7	3.41	44.2	22.6	3.66	41.5	21.6	3.89	38.6	20.7	4.11
	67	42.5	29.6	3.31	40.0	28.5	3.54	37.4	27.5	3.75	34.8	26.4	3.96
	63††	39.3	28.6	3.24	36.9	27.5	3.45	34.4	26.5	3.65	32.0	25.4	3.84
	62	38.6	35.3	3.22	36.2	34.2	3.43	33.9	33.1	3.63	31.7	31.7	3.82
	57	37.3	37.3	3.19	35.4	35.4	3.40	33.6	33.6	3.62	31.7	31.7	3.83
1280	72	47.7	24.4	3.44	44.8	23.4	3.69	42.0	22.4	3.93	39.1	21.4	4.15
	67	43.2	30.8	3.34	40.6	29.7	3.57	37.9	28.7	3.79	35.3	27.7	4.00
	63††	39.9	29.8	3.27	37.4	28.7	3.48	34.9	27.6	3.69	32.4	26.6	3.87
	62	39.2	37.0	3.25	36.9	35.8	3.46	34.6	34.5	3.67	32.6	32.6	3.88
	57	38.5	38.5	3.23	36.5	36.5	3.45	34.5	34.5	3.67	32.6	32.6	3.88

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BA	036	0.94	0.94	1.07	CD3(A,B)A	036	0.93	0.91	1.03
	042	0.94	0.94	1.07		042	0.93	0.91	1.03
CC5A/CD5A/CD5BW	042	0.94	0.94	1.07	CD5A/CD5BW	036	0.93	0.91	1.03
CD3(A,B)A	036	0.94	0.94	1.07	CE3AA	036	0.90	0.89	1.02
	042	0.94	0.94	1.07		042	0.93	0.92	1.03
CE3AA	036	0.93	0.93	1.07	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE				
	042	0.94	0.94	1.08	CC5A/CD5A/CD5BA	036	0.93	0.91	1.02
CF5AA	036	0.93	0.93	1.07		042	0.93	0.91	1.02
CD5A/CD5BW	036	0.94	0.94	1.07	CC5A/CD5A/CD5BW	042	0.93	0.89	1.01
FK4BNB	005	0.96	0.96	1.01	CD3(A,B)A	036	0.93	0.91	1.02
	006	1.00	1.00	1.00		042	0.93	0.91	1.02
FK4BNF	001	0.90	0.90	1.04	CD5A/CD5BW	036	0.93	0.91	1.02
	002	0.92	0.92	1.05	CE3AA	036	0.90	0.90	1.01
	003	0.94	0.91	0.98		042	0.93	0.93	1.01
	004	0.93	0.92	1.00	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
F(A,B)4ANF	036	0.90	0.90	1.07	CC5A/CD5A/CD5BA	036	0.93	0.91	1.01
F(A,B)4AN(F,B)	042	0.94	0.93	1.06		042	0.93	0.91	1.01
FC4BNF	036	0.90	0.90	1.07	CC5A/CD5A/CD5BW	042	0.93	0.90	1.00
FC4BN(F,B)	042	0.94	0.93	1.06	CD3(A,B)A	036	0.93	0.91	1.01
COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						042	0.93	0.91	1.01
CC5A/CD5A/CD5BA	036	0.93	0.91	1.03	CD5A/CD5BW	036	0.93	0.91	1.01
	042	0.93	0.91	1.03		CE3AA	036	0.90	0.90
CC5A/CD5A/CD5BW	042	0.93	0.89	1.02	042		0.93	0.93	1.01

See notes on pg. 12.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
Low Speed 38YDA036-30 Outdoor Section With FK4BNB006 Indoor Section													
725	72	25.4	13.4	1.47	23.9	12.8	1.63	22.3	12.3	1.79	20.8	11.8	1.95
	67	22.9	16.9	1.47	21.6	16.4	1.62	20.2	15.9	1.77	18.8	15.3	1.91
	63††	21.2	16.4	1.47	19.8	15.8	1.61	18.5	15.2	1.75	17.2	14.7	1.89
	62	20.8	20.5	1.47	19.7	19.7	1.61	18.7	18.7	1.75	17.6	17.6	1.89
	57	20.7	20.7	1.47	19.7	19.7	1.61	18.7	18.7	1.75	17.6	17.6	1.89
825	72	25.9	14.2	1.48	24.3	13.6	1.64	22.7	13.1	1.80	21.2	12.6	1.96
	67	23.4	18.2	1.48	22.0	17.7	1.63	20.6	17.1	1.78	19.1	16.6	1.93
	63††	21.7	17.6	1.48	20.3	17.0	1.62	18.9	16.4	1.77	17.6	15.9	1.90
	62	21.6	21.6	1.48	20.6	20.6	1.63	19.5	19.5	1.77	18.4	18.4	1.92
	57	21.7	21.7	1.48	20.6	20.6	1.63	19.5	19.5	1.77	18.4	18.4	1.92
925	72	26.3	14.9	1.48	24.7	14.4	1.65	23.1	13.9	1.82	21.5	13.3	1.98
	67	23.8	19.5	1.49	22.4	18.9	1.65	20.9	18.4	1.80	19.4	17.8	1.95
	63††	22.0	18.7	1.49	20.6	18.1	1.64	19.2	17.6	1.78	17.8	17.0	1.92
	62	22.5	22.5	1.49	21.3	21.3	1.64	20.2	20.2	1.79	19.0	19.0	1.94
	57	22.5	22.5	1.49	21.3	21.3	1.64	20.2	20.2	1.79	19.0	19.0	1.94
1025	72	26.6	15.7	1.49	24.9	15.1	1.66	23.3	14.6	1.83	21.7	14.1	1.99
	67	24.2	20.7	1.50	22.7	20.1	1.66	21.2	19.5	1.81	19.7	19.0	1.96
	63††	22.3	19.9	1.50	20.9	19.3	1.65	19.5	18.7	1.79	18.1	18.0	1.93
	62	23.2	23.2	1.50	22.0	22.0	1.65	20.7	20.7	1.81	19.5	19.5	1.96
	57	23.2	23.2	1.50	22.0	22.0	1.65	20.8	20.8	1.81	19.5	19.5	1.96
1125	72	26.8	16.4	1.50	25.2	15.9	1.67	23.5	15.3	1.84	21.9	14.8	2.00
	67	24.5	21.9	1.51	22.9	21.3	1.67	21.5	20.7	1.82	20.0	20.0	1.97
	63††	22.6	21.0	1.51	21.2	20.3	1.66	19.8	19.6	1.81	18.5	18.5	1.95
	62	23.8	23.8	1.51	22.5	22.5	1.67	21.3	21.3	1.82	20.0	20.0	1.97
	57	23.8	23.8	1.51	22.5	22.5	1.67	21.3	21.3	1.82	20.0	20.0	1.97
1225	72	27.0	17.1	1.51	25.4	16.6	1.68	23.7	16.1	1.85	22.0	15.5	2.01
	67	24.7	23.0	1.51	23.2	22.4	1.68	21.7	21.6	1.84	20.4	20.4	1.99
	63††	22.9	22.0	1.52	21.5	21.3	1.67	20.2	20.2	1.82	18.9	18.9	1.97
	62	24.3	24.3	1.52	23.0	23.0	1.68	21.7	21.7	1.84	20.4	20.4	1.99
	57	24.3	24.3	1.52	23.0	23.0	1.68	21.7	21.7	1.84	20.4	20.4	1.99

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BA	036	0.95	0.91	1.14	CD3(A,B)A	036	0.95	0.91	1.03
	042	0.95	0.91	1.14		042	0.95	0.91	1.03
CC5A/CD5A/CD5BW	042	0.94	0.90	1.14	CD5A/CD5BW	036	0.95	0.91	1.03
CD3(A,B)A	036	0.95	0.91	1.14	CE3AA	036	0.91	0.90	1.03
	042	0.95	0.91	1.14		042	0.95	0.92	1.03
CE3AA	036	0.91	0.90	1.14	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE				
	042	0.95	0.93	1.14	CC5A/CD5A/CD5BA	036	0.95	0.92	1.02
CF5AA	036	0.95	0.91	1.14		042	0.95	0.92	1.02
CD5A/CD5BW	036	0.95	0.91	1.14	CC5A/CD5A/CD5BW	042	0.95	0.90	1.02
FK4BNF	001	0.91	0.91	1.02	CD3(A,B)A	036	0.95	0.92	1.02
	002	0.95	0.92	1.02		042	0.95	0.92	1.02
	003	0.95	0.88	0.99	CD5A/CD5BW	036	0.95	0.92	1.02
	004	0.95	0.88	1.00	CE3AA	036	0.91	0.91	1.02
FK4BNB	005	1.00	0.96	1.00		042	0.95	0.93	1.02
	006	1.00	1.00	1.00	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
F(A,B)4ANF	036	0.91	0.91	1.28	CC5A/CD5A/CD5BA	036	0.95	0.92	1.02
F(A,B)4AN(F,B)	042	0.95	0.95	1.24		042	0.95	0.92	1.02
FC4BNF	036	0.91	0.91	1.28	CC5A/CD5A/CD5BW	042	0.95	0.90	1.02
FC4BN(F,B)	042	0.95	0.95	1.24	CD3(A,B)A	036	0.95	0.92	1.02
COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						042	0.95	0.92	1.02
CC5A/CD5A/CD5BA	036	0.95	0.91	1.03	CD5A/CD5BW	036	0.95	0.92	1.02
	042	0.95	0.91	1.03		CE3AA	036	0.91	0.91
CC5A/CD5A/CD5BW	042	0.95	0.90	1.03	042		0.95	0.93	1.02

See notes on pg. 12.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F													
		85				95				105				115	
CFM	EWB	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**		
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡			
High Speed 38YDA048-30 Outdoor Section With FK4BNB006 Indoor Section															
1275	72	57.0	27.9	4.77	54.2	26.8	5.11	51.4	25.8	5.46	48.6	24.7	5.79		
	67	52.0	34.6	4.62	49.5	33.5	4.94	46.9	32.5	5.26	44.2	31.4	5.55		
	63††	48.4	33.7	4.51	46.0	32.6	4.81	43.5	31.5	5.09	40.9	30.4	5.35		
	62	47.4	41.2	4.48	45.1	40.1	4.77	42.7	39.0	5.05	40.1	37.8	5.31		
	57	45.0	45.0	4.40	43.3	43.3	4.70	41.4	41.4	4.98	39.3	39.3	5.25		
1375	72	57.7	28.6	4.82	54.8	27.5	5.17	51.9	26.5	5.51	49.0	25.4	5.86		
	67	52.7	35.8	4.67	50.0	34.8	4.99	47.4	33.7	5.31	44.6	32.6	5.61		
	63††	49.0	34.9	4.56	46.5	33.8	4.86	44.0	32.7	5.15	41.3	31.5	5.42		
	62	48.1	42.9	4.53	45.8	41.8	4.83	43.3	40.7	5.11	40.7	39.4	5.38		
	57	46.2	46.2	4.47	44.4	44.4	4.77	42.4	42.4	5.07	40.3	40.3	5.35		
1475	72	58.3	29.3	4.86	55.3	28.2	5.21	52.4	27.2	5.56	49.4	26.1	5.91		
	67	53.2	37.1	4.72	50.5	35.9	5.04	47.9	34.9	5.36	45.1	33.8	5.66		
	63††	49.5	36.0	4.60	47.0	34.9	4.90	44.5	33.8	5.20	41.7	32.6	5.47		
	62	48.7	44.6	4.57	46.3	43.4	4.88	43.8	42.2	5.17	41.3	40.9	5.44		
	57	47.3	47.3	4.53	45.4	45.4	4.84	43.4	43.4	5.14	41.2	41.2	5.43		
1575	72	58.8	30.0	4.91	55.7	28.9	5.26	52.8	27.9	5.61	49.8	26.8	5.95		
	67	53.7	38.2	4.76	51.0	37.1	5.08	48.3	36.0	5.41	45.4	34.9	5.72		
	63††	50.0	37.1	4.64	47.5	36.0	4.95	44.9	34.9	5.25	42.1	33.7	5.52		
	62	49.3	46.2	4.62	46.8	45.0	4.93	44.4	43.7	5.23	41.9	41.9	5.51		
	57	48.2	48.2	4.59	46.3	46.3	4.90	44.2	44.2	5.22	42.0	42.0	5.51		
1675	72	59.3	30.7	4.95	56.1	29.6	5.30	53.1	28.5	5.65	50.0	27.5	6.00		
	67	54.2	39.4	4.80	51.4	38.3	5.12	48.6	37.2	5.45	45.7	36.0	5.76		
	63††	50.4	38.2	4.68	48.1	37.2	5.00	45.4	36.1	5.30	42.4	34.8	5.57		
	62	49.8	47.7	4.66	47.6	46.6	4.98	45.1	45.1	5.29	42.6	42.6	5.59		
	57	49.1	49.1	4.64	47.1	47.1	4.96	44.9	44.9	5.28	42.7	42.7	5.58		

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BA	060	0.94	0.94	1.04	FC4BN(F,B)	048	0.94	0.94	1.05
CC5A/CD5A/CD5BW	048	0.94	0.94	1.03		060	0.98	0.98	1.08
	060	0.96	0.96	1.05	FK4BNB	006	1.00	1.00	1.00
CD3(A,B)A	048	0.94	0.94	1.03	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
	060	0.94	0.94	1.04	CC5A/CD5A/CD5BA	060	0.92	0.89	1.01
CD5A/CD5BA	048	0.94	0.94	1.03	CC5A/CD5A/CD5BW	048	0.92	0.88	1.01
CE3AA	048	0.94	0.94	1.04		060	0.94	0.93	1.02
	060	0.96	0.96	1.05	CD3(A,B)A	048	0.92	0.89	1.01
CF5AA	048	0.94	0.94	1.04		060	0.92	0.89	1.01
FB4ANB	070	1.01	1.01	1.07	CD5A/CD5BA	048	0.92	0.89	1.01
F(A,B)4AN(F,B)	048	0.94	0.94	1.05	CE3AA	048	0.92	0.92	1.02
	060	0.98	0.98	1.08		060	0.94	0.94	1.02
FC4BNB	070	1.01	1.01	1.07		—	—	—	—

See notes on pg. 12.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
		Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
Low Speed 38YDA048-30 Outdoor Section With FK4BNB006 Indoor Section													
1000	72	32.9	17.8	2.01	31.1	17.2	2.23	29.3	16.5	2.45	27.4	15.9	2.66
	67	29.9	22.9	2.01	28.2	22.2	2.22	26.5	21.6	2.42	24.9	20.9	2.61
	63††	27.7	22.1	2.01	26.1	21.4	2.20	24.5	20.7	2.38	22.9	20.1	2.56
	62	27.5	27.5	2.01	26.2	26.2	2.20	24.9	24.9	2.39	23.6	23.6	2.58
	57	27.5	27.5	2.01	26.2	26.2	2.20	24.9	24.9	2.39	23.7	23.7	2.58
1100	72	33.3	18.5	2.02	31.5	17.9	2.25	29.6	17.3	2.47	27.7	16.7	2.68
	67	30.3	24.2	2.03	28.6	23.5	2.23	26.9	22.8	2.43	25.2	22.2	2.63
	63††	28.1	23.3	2.02	26.4	22.6	2.22	24.8	21.9	2.40	23.2	21.2	2.59
	62	28.3	28.3	2.02	27.0	27.0	2.22	25.6	25.6	2.42	24.3	24.3	2.61
	57	28.4	28.4	2.02	27.0	27.0	2.22	25.6	25.6	2.42	24.3	24.3	2.61
1200	72	33.7	19.3	2.04	31.8	18.7	2.26	29.9	18.0	2.48	27.9	17.4	2.70
	67	30.7	25.4	2.04	28.9	24.7	2.25	27.2	24.0	2.45	25.4	23.4	2.65
	63††	28.4	24.4	2.04	26.7	23.7	2.23	25.1	23.0	2.42	23.5	22.3	2.61
	62	29.1	29.1	2.04	27.7	27.7	2.24	26.3	26.3	2.44	24.9	24.9	2.64
	57	29.1	29.1	2.04	27.7	27.7	2.24	26.3	26.3	2.44	24.9	24.9	2.64
1300	72	33.9	20.0	2.05	32.0	19.4	2.28	30.1	18.8	2.50	28.1	18.1	2.71
	67	31.0	26.6	2.05	29.2	25.9	2.26	27.4	25.2	2.47	25.7	24.5	2.67
	63††	28.7	25.5	2.05	27.0	24.8	2.25	25.3	24.1	2.44	23.7	23.3	2.63
	62	29.7	29.7	2.05	28.3	28.3	2.26	26.9	26.9	2.46	25.4	25.4	2.66
	57	29.7	29.7	2.05	28.3	28.3	2.26	26.9	26.9	2.46	25.4	25.4	2.66
1400	72	34.2	20.8	2.06	32.2	20.1	2.29	30.3	19.5	2.51	28.3	18.9	2.73
	67	31.2	27.7	2.07	29.4	27.0	2.28	27.7	26.3	2.49	25.9	25.5	2.69
	63††	28.9	26.6	2.07	27.3	25.9	2.27	25.6	25.1	2.46	24.0	24.0	2.65
	62	30.3	30.3	2.07	28.8	28.8	2.28	27.3	27.3	2.48	25.8	25.8	2.68
	57	30.3	30.3	2.07	28.8	28.8	2.28	27.3	27.3	2.48	25.8	25.8	2.68
1500	72	34.4	21.5	2.07	32.4	20.8	2.31	30.4	20.2	2.53	28.5	19.6	2.75
	67	31.5	28.9	2.08	29.7	28.2	2.29	27.9	27.4	2.51	26.2	26.2	2.71
	63††	29.2	27.7	2.08	27.5	26.9	2.28	25.9	25.9	2.48	24.3	24.3	2.67
	62	30.9	30.9	2.08	29.3	29.3	2.29	27.8	27.8	2.50	26.2	26.2	2.71
	57	30.9	30.9	2.08	29.3	29.3	2.29	27.8	27.8	2.50	26.3	26.3	2.71

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BA	060	0.91	0.86	1.10	FC4BN(F,B)	048	0.98	0.98	1.26
CC5A/CD5A/CD5BW	048	0.91	0.87	1.10		060	1.00	1.00	1.30
	060	0.94	0.90	1.10	FK4BNB	006	1.00	1.00	1.00
CD3(A,B)A	048	0.91	0.87	1.10	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
	060	0.91	0.86	1.10	CC5A/CD5A/CD5BA	060	0.91	0.87	1.00
CD5A/CD5BA	048	0.91	0.87	1.10	CC5A/CD5A/CD5BW	048	0.91	0.87	1.00
CE3AA	048	0.91	0.89	1.10	CD3(A,B)A	060	0.92	0.90	1.00
	060	0.94	0.91	1.10		048	0.91	0.87	1.00
CF5AA	048	0.91	0.87	1.10		060	0.91	0.87	1.00
F(A,B)4AN(F,B)	048	0.98	0.98	1.26	CD5A/CD5BA	048	0.91	0.87	1.00
	060	1.00	1.00	1.30	CE3AA	048	0.91	0.89	1.01
FB4ANB	070	1.00	1.00	1.26		060	0.92	0.91	1.01
FC4BNB	070	1.00	1.00	1.26		—	—	—	—

See notes on pg. 12.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**	Capacity MBtuh†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
High Speed 38YDA060-30 Outdoor Section With FK4BNB006 Indoor Section													
1565	72	64.4	31.8	5.67	61.2	30.6	6.06	57.8	29.4	6.41	54.3	28.1	6.75
	67	58.7	40.0	5.49	55.6	38.7	5.82	52.4	37.4	6.15	49.1	36.1	6.45
	63††	54.4	38.8	5.33	51.4	37.5	5.66	48.4	36.1	5.95	45.3	34.8	6.23
	62	53.3	47.9	5.29	50.6	46.5	5.61	47.6	45.1	5.91	44.7	43.6	6.19
	57	51.3	51.3	5.22	49.0	49.0	5.54	46.7	46.7	5.86	44.3	44.3	6.17
1665	72	64.9	32.5	5.72	61.7	31.3	6.11	58.3	30.1	6.47	54.7	28.8	6.81
	67	59.3	41.2	5.54	56.1	39.9	5.89	53.0	38.6	6.22	49.6	37.3	6.52
	63††	54.9	39.9	5.39	52.0	38.6	5.72	48.9	37.3	6.01	45.7	35.9	6.29
	62	53.9	49.5	5.35	51.1	48.1	5.68	48.2	46.6	5.98	45.3	45.0	6.26
	57	52.3	52.3	5.30	50.0	50.0	5.63	47.6	47.6	5.95	45.2	45.2	6.26
1765	72	65.6	33.2	5.79	62.2	32.0	6.17	58.6	30.7	6.53	55.0	29.5	6.86
	67	59.8	42.3	5.59	56.6	41.1	5.95	53.3	39.7	6.27	50.0	38.4	6.58
	63††	55.4	41.0	5.45	52.4	39.7	5.77	49.3	38.3	6.07	46.0	37.0	6.35
	62	54.5	51.1	5.41	51.7	49.6	5.74	48.7	48.0	6.05	45.9	45.9	6.35
	57	53.3	53.3	5.37	50.9	50.9	5.71	48.5	48.5	6.03	45.9	45.9	6.34
1865	72	66.1	33.9	5.83	62.5	32.6	6.22	59.2	31.4	6.59	55.3	30.1	6.92
	67	60.2	43.4	5.64	57.0	42.2	6.00	53.7	40.8	6.33	50.2	39.5	6.63
	63††	55.9	42.1	5.50	52.7	40.7	5.82	49.6	39.4	6.13	46.3	38.0	6.41
	62	55.1	52.6	5.47	52.2	51.0	5.80	49.3	49.3	6.11	46.6	46.6	6.42
	57	54.2	54.2	5.44	51.8	51.8	5.78	49.3	49.3	6.11	46.6	46.6	6.42
1965	72	66.4	34.5	5.88	63.1	33.3	6.28	59.5	32.1	6.64	55.6	30.7	6.97
	67	60.6	44.6	5.69	57.3	43.2	6.04	54.1	42.0	6.39	50.5	40.6	6.69
	63††	56.2	43.1	5.54	53.2	41.8	5.88	49.9	40.4	6.18	46.6	39.0	6.46
	62	55.6	54.0	5.53	52.7	52.3	5.85	50.0	50.0	6.18	47.2	47.2	6.50
	57	55.0	55.0	5.51	52.6	52.6	5.85	50.0	50.0	6.18	47.3	47.3	6.50

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BW	060	0.98	0.97	1.02	FC4BNB	070	1.00	1.00	1.04
CD3(A,B)A	060	0.96	0.93	1.01	FK4BNB	006	1.00	1.00	1.00
CD5A/CD5A/CD5BA	060	0.96	0.94	1.01	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
CE3AA	060	0.98	0.98	1.02	CC5A/CD5A/CD5BA	060	0.92	0.83	0.96
F(A,B)4AN(F,B)	060	0.98	0.98	1.05	CC5A/CD5A/CD5BW	060	0.95	0.87	0.96
FB4ANB	070	1.00	1.00	1.04	CD3(A,B)A	060	0.92	0.83	0.96
FC4BN(F,B)	060	0.98	0.98	1.05	CE3AA	060	0.95	0.89	0.97

See notes on pg. 12.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
Low Speed 38YDA060-30 Outdoor Section With FK4BNB006 Indoor Section													
1200	72	36.6	20.1	2.06	34.8	19.5	2.44	32.9	18.8	2.78	30.8	18.1	3.10
	67	33.4	26.1	2.16	31.6	25.5	2.49	29.8	24.8	2.80	27.9	24.0	3.08
	63††	31.0	25.2	2.21	29.3	24.5	2.52	27.5	23.8	2.80	25.7	23.0	3.05
	62	31.1	31.1	2.21	29.7	29.7	2.52	28.3	28.3	2.80	26.7	26.7	3.07
	57	31.4	31.4	2.19	31.6	31.6	2.49	31.9	31.9	2.81	31.9	31.9	3.14
1300	72	36.9	20.8	2.07	35.1	20.2	2.45	33.2	19.5	2.80	31.0	18.8	3.12
	67	33.7	27.3	2.16	32.0	26.7	2.50	30.1	25.9	2.82	28.2	25.2	3.10
	63††	31.3	26.3	2.22	29.6	25.6	2.53	27.8	24.9	2.82	25.9	24.1	3.08
	62	31.8	31.8	2.21	30.4	30.4	2.53	28.9	28.9	2.82	27.3	27.3	3.09
	57	34.1	34.1	2.15	34.5	34.5	2.49	34.4	34.4	2.83	34.2	34.2	3.18
1400	72	37.2	21.5	2.08	35.3	20.9	2.46	33.3	20.2	2.81	31.2	19.5	3.13
	67	34.0	28.5	2.17	32.2	27.8	2.52	30.4	27.1	2.83	28.4	26.3	3.12
	63††	31.6	27.4	2.23	29.9	26.7	2.55	28.0	25.9	2.84	26.2	25.1	3.10
	62	32.4	32.4	2.21	31.0	31.0	2.54	29.4	29.4	2.84	27.8	27.8	3.12
	57	36.7	36.7	2.11	36.8	36.8	2.47	36.4	36.4	2.83	36.1	36.1	3.20
1500	72	37.4	22.2	2.08	35.5	21.6	2.47	33.5	20.9	2.83	31.4	20.2	3.15
	67	34.2	29.6	2.18	32.5	28.9	2.53	30.6	28.2	2.85	28.6	27.3	3.14
	63††	31.8	28.4	2.24	30.1	27.7	2.56	28.3	26.9	2.86	26.4	26.0	3.12
	62	33.0	33.0	2.22	31.5	31.5	2.54	29.9	29.9	2.85	28.3	28.3	3.14
	57	39.0	39.0	2.09	38.7	38.7	2.45	38.2	38.2	2.83	37.7	37.7	3.24
1600	72	37.6	22.9	2.09	35.7	22.3	2.48	33.7	21.6	2.84	31.6	20.9	3.17
	67	34.5	30.7	2.19	32.7	30.0	2.54	30.8	29.2	2.87	28.9	28.3	3.16
	63††	32.1	29.5	2.25	30.3	28.7	2.58	28.5	27.8	2.87	26.7	26.7	3.14
	62	33.5	33.5	2.22	32.0	32.0	2.55	30.4	30.4	2.87	28.7	28.7	3.16
	57	40.7	40.7	2.04	40.3	40.3	2.43	39.8	39.8	2.83	38.8	38.8	3.25
1700	72	37.8	23.5	2.10	35.9	22.9	2.49	33.9	22.3	2.86	31.7	21.6	3.19
	67	34.7	31.7	2.20	32.9	31.0	2.56	31.0	30.2	2.88	29.1	29.1	3.18
	63††	32.3	30.4	2.26	30.6	29.6	2.59	28.8	28.6	2.89	27.0	27.0	3.16
	62	34.0	34.0	2.22	32.5	32.5	2.56	30.9	30.9	2.89	29.1	29.1	3.18
	57	42.5	42.5	2.00	41.8	41.8	2.41	41.3	41.3	2.86	39.6	39.6	3.26

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling			Indoor Section	Size	Cooling		
		Capacity	Sensible††	Power			Capacity	Sensible††	Power
CC5A/CD5A/CD5BW	060	0.96	0.88	1.09	FC4BNB	070	1.00	1.00	1.23
CD3(A,B)A	060	0.94	0.85	1.10	FK4BNB	006	1.00	1.00	1.00
CD5A/CD5A/CD5BA	060	0.94	0.85	1.10	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE				
CE3AA	060	0.96	0.90	1.10	CC5A/CD5A/CD5BA	060	0.94	0.80	1.00
F(A,B)4AN(F,B)	060	1.00	1.00	1.29	CC5A/CD5A/CD5BW	060	0.94	0.82	0.98
FB4ANB	070	1.00	1.00	1.23	CD3(A,B)A	060	0.94	0.80	1.00
FC4BN(F,B)	060	1.00	1.00	1.29	CE3AA	060	0.94	0.84	0.99

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation and connected by 25 ft (7.62m) of tubing. If other than 25 ft (7.62m) of tubing is used and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

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

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kw) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kw) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C). When the required data falls between the published data, interpolation may be performed.

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

†† Sensible capacity multipliers are based on the rated airflow of the listed indoor section. Refer to the airflow listed in the "Ratings and Performance" table.

‡‡ At TVA rating indoor condition (75° EDB/63° EWB). All other indoor air temperatures are at 80° EDB.

Heat pump heating performance

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F														
		-3			7			17			27			30		
EDB	CFM	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†	
High Speed 38YDA036-30 Outdoor Section With FK4BNB006 Indoor Section																
65	985	14.9	13.7	2.11	18.7	17.2	2.31	23.0	21.0	2.52	27.7	24.6	2.74	29.2	25.6	2.81
	1085	15.0	13.8	2.12	18.9	17.4	2.32	23.3	21.2	2.53	28.0	24.9	2.74	29.6	25.9	2.81
	1185	15.2	14.0	2.14	19.1	17.6	2.34	23.5	21.4	2.54	28.3	25.2	2.75	29.9	26.2	2.81
	1285	15.4	14.1	2.16	19.3	17.7	2.35	23.7	21.6	2.55	28.6	25.4	2.75	30.2	26.4	2.82
	1385	15.5	14.2	2.17	19.4	17.9	2.36	23.9	21.8	2.56	28.8	25.6	2.76	30.4	26.6	2.83
70	985	14.2	13.0	2.13	18.1	16.6	2.34	22.3	20.3	2.56	26.9	23.9	2.79	28.4	24.9	2.87
	1085	14.4	13.2	2.14	18.3	16.8	2.35	22.5	20.6	2.57	27.3	24.2	2.80	28.8	25.2	2.87
	1185	14.5	13.4	2.16	18.5	17.0	2.37	22.8	20.8	2.58	27.5	24.5	2.80	29.1	25.5	2.87
	1285	14.7	13.5	2.18	18.6	17.1	2.38	23.0	21.0	2.59	27.8	24.7	2.81	29.3	25.7	2.88
	1385	14.8	13.7	2.19	18.8	17.3	2.40	23.2	21.1	2.61	28.0	24.9	2.82	29.5	25.9	2.89
75	985	13.5	12.4	2.15	17.4	16.0	2.37	21.6	19.7	2.60	26.1	23.2	2.84	27.6	24.2	2.92
	1085	13.6	12.5	2.16	17.6	16.2	2.38	21.8	19.9	2.61	26.5	23.5	2.85	28.0	24.5	2.92
	1185	13.8	12.7	2.18	17.8	16.4	2.40	22.1	20.1	2.62	26.7	23.8	2.85	28.2	24.8	2.92
	1285	14.0	12.9	2.20	18.0	16.5	2.41	22.3	20.3	2.63	27.0	24.0	2.86	28.5	25.0	2.93
	1385	14.1	13.0	2.21	18.1	16.7	2.43	22.5	20.5	2.65	27.2	24.2	2.87	28.7	25.2	2.94

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	036	0.97	1.12	CD3(A,B)A	036	0.94	1.09
	042	0.97	1.12		042	0.94	1.09
CC5A/CD5A/CD5BW	042	0.97	1.13	CD5A/CD5BW	036	0.94	1.09
CD3(A,B)A	036	0.97	1.12	CE3AA	036	0.94	1.10
	042	0.97	1.12		042	0.94	1.09
CD5A/CD5BW	036	0.97	1.12	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE			
CE3AA	036	0.95	1.14	CC5A/CD5A/CD5BA	036	0.94	1.08
	042	0.96	1.12		042	0.94	1.08
CF5AA	036	0.97	1.13	CC5A/CD5A/CD5BW	042	0.94	1.08
F(A,B)4ANF	036	0.97	1.15	CD3(A,B)A	036	0.94	1.08
F(A,B)4AN(F,B)	042	0.97	1.12		042	0.94	1.08
FC4BN(F,B)	042	0.97	1.12	CD5A/CD5BW	036	0.94	1.08
FC4BNF	036	0.97	1.15	CE3AA	036	0.94	1.09
FK4BNB	005	1.00	1.03		042	0.94	1.07
	006	1.00	1.00	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE			
FK4BNF	001	0.95	1.15	CC5A/CD5A/CD5BA	036	0.94	1.08
	002	1.00	1.13		042	0.94	1.08
	003	0.96	1.06	CC5A/CD5A/CD5BW	042	0.94	1.07
	004	1.00	1.05	CD3(A,B)A	036	0.94	1.08
COILS + 58MVP060-14 VARIABLE-SPEED FURNACE					042	0.94	1.08
CC5A/CD5A/CD5BA	036	0.94	1.09	CD5A/CD5BW	036	0.94	1.08
	042	0.94	1.09		CE3AA	036	0.94
CC5A/CD5A/CD5BW	042	0.94	1.09	042		0.94	1.06

See notes on pg. 18.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F											
		30			37			47			57		
EDB	CFM	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†	
Low Speed 38YDA036-30 Outdoor Section With FK4BNB006 Indoor Section													
65	800	16.2	14.2	1.34	18.4	16.8	1.39	21.9	21.9	1.45	25.7	25.7	1.51
	900	16.4	14.4	1.34	18.7	17.0	1.37	22.1	22.1	1.43	26.0	26.0	1.48
	1000	16.6	14.5	1.33	18.8	17.1	1.37	22.4	22.4	1.41	26.3	26.3	1.46
	1100	16.7	14.6	1.33	19.0	17.3	1.36	22.6	22.6	1.40	26.6	26.6	1.45
	1200	16.8	14.7	1.33	19.1	17.4	1.36	22.8	22.8	1.40	26.8	26.8	1.44
70	800	15.8	13.8	1.39	17.9	16.3	1.43	21.3	21.3	1.50	25.0	25.0	1.57
	900	16.0	14.0	1.38	18.2	16.5	1.42	21.6	21.6	1.49	25.4	25.4	1.55
	1000	16.1	14.1	1.38	18.3	16.7	1.42	21.8	21.8	1.47	25.7	25.7	1.53
	1100	16.2	14.2	1.38	18.5	16.8	1.41	22.0	22.0	1.46	25.9	25.9	1.51
	1200	16.4	14.3	1.38	18.6	17.0	1.41	22.2	22.2	1.46	26.1	26.1	1.50
75	800	15.3	13.4	1.43	17.5	15.9	1.48	20.8	20.8	1.56	24.4	24.4	1.64
	900	15.5	13.6	1.42	17.7	16.1	1.47	21.1	21.1	1.54	24.8	24.8	1.61
	1000	15.7	13.7	1.42	17.9	16.2	1.47	21.3	21.3	1.53	25.1	25.1	1.59
	1100	15.8	13.8	1.42	18.0	16.4	1.47	21.5	21.5	1.52	25.3	25.3	1.58
	1200	15.9	13.9	1.42	18.1	16.5	1.46	21.6	21.6	1.52	25.5	25.5	1.57

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	036	0.99	1.21	CD3(A,B)A	036	0.96	1.10
	042	0.99	1.21		042	0.96	1.10
CC5A/CD5A/CD5BW	042	0.99	1.22	CD5A/CD5BW	036	0.96	1.10
CD3(A,B)A	036	0.99	1.21	CE3AA	036	0.96	1.11
	042	0.99	1.21		042	0.96	1.09
CD5A/CD5BW	036	0.99	1.21	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE			
CE3AA	036	0.99	1.22	CC5A/CD5A/CD5BA	036	0.96	1.08
	042	1.00	1.21		042	0.96	1.08
CF5AA	036	0.97	1.22	CC5A/CD5A/CD5BW	042	0.96	1.09
F(A,B)4ANF	036	1.02	1.33	CD3(A,B)A	036	0.96	1.08
F(A,B)4AN(F,B)	042	1.02	1.28		042	0.96	1.08
FC4BN(F,B)	042	1.02	1.28	CD5A/CD5BW	036	0.96	1.08
FC4BNF	036	1.02	1.33	CE3AA	036	0.95	1.09
FK4BNB	005	0.97	1.02		042	0.96	1.08
	006	1.00	1.00	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE			
FK4BNF	001	0.93	1.09	CC5A/CD5A/CD5BA	036	0.96	1.09
	002	0.97	1.08		042	0.96	1.09
	003	0.94	1.05	CC5A/CD5A/CD5BW	042	0.96	1.09
	004	0.97	1.04	CD3(A,B)A	036	0.96	1.09
COILS + 58MVP060-14 VARIABLE-SPEED FURNACE					042	0.96	1.09
CC5A/CD5A/CD5BA	036	0.96	1.10	CD5A/CD5BW	036	0.96	1.09
	042	0.96	1.10		CE3AA	036	0.93
CC5A/CD5A/CD5BW	042	0.96	1.11	042		0.96	1.08

See notes on pg. 18.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F														
		-3			7			17			27			33		
EDB	CFM	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†	
High Speed 38YDA048-30 Outdoor Section With FK4BNB006 Indoor Section																
65	1410	17.8	16.4	2.66	23.6	21.7	2.95	29.2	26.6	3.24	35.2	31.2	3.52	39.2	33.7	3.70
	1510	18.1	16.6	2.69	23.8	21.9	2.98	29.4	26.8	3.26	35.5	31.5	3.54	39.5	34.0	3.71
	1610	18.3	16.8	2.72	24.0	22.1	3.01	29.7	27.0	3.28	35.8	31.8	3.55	39.8	34.3	3.72
	1710	18.5	17.0	2.75	24.2	22.3	3.04	29.9	27.3	3.31	36.0	32.0	3.57	40.1	34.5	3.73
	1810	18.7	17.2	2.78	24.4	22.5	3.06	30.1	27.4	3.33	36.2	32.2	3.59	40.3	34.7	3.75
70	1410	16.6	15.3	2.66	22.5	20.7	2.96	28.2	25.8	3.27	34.3	30.4	3.58	38.3	33.0	3.77
	1510	16.8	15.5	2.69	22.8	20.9	2.99	28.5	26.0	3.30	34.6	30.7	3.60	38.6	33.2	3.78
	1610	17.1	15.7	2.72	23.0	21.1	3.02	28.8	26.2	3.32	34.9	31.0	3.61	38.9	33.5	3.80
	1710	17.2	15.9	2.75	23.2	21.3	3.05	29.0	26.4	3.34	35.1	31.2	3.63	39.2	33.7	3.81
	1810	17.4	16.0	2.78	23.4	21.5	3.07	29.2	26.6	3.37	35.3	31.4	3.65	39.4	34.0	3.83
75	1410	15.4	14.2	2.66	21.3	19.6	2.96	27.3	24.9	3.29	33.3	29.6	3.63	37.3	32.1	3.83
	1510	15.7	14.4	2.69	21.6	19.8	2.99	27.5	25.1	3.32	33.6	29.8	3.65	37.6	32.4	3.85
	1610	15.8	14.6	2.72	21.8	20.1	3.02	27.8	25.3	3.34	33.9	30.1	3.67	37.9	32.7	3.86
	1710	16.0	14.7	2.74	22.1	20.3	3.05	28.0	25.6	3.37	34.2	30.3	3.69	38.2	32.9	3.88
	1810	16.2	14.9	2.77	22.3	20.5	3.08	28.3	25.8	3.40	34.4	30.6	3.71	38.5	33.2	3.90
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section		Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5A/CD5BA		060	0.98		FC4BN(F,B)		048	1.00								
CC5A/CD5A/CD5BW		048	0.98				060	1.00								
		060	0.99		FK4BNB		006	1.00								
CD3(A,B)A		048	0.98		COILS + 58MVP100-20 VARIABLE-SPEED FURNACE											
		060	0.98		CC5A/CD5A/CD5BA		060	0.99								
CD5A/CD5BA		048	0.98		CC5A/CD5A/CD5BW		048	0.98								
CE3AA		048	0.98				060	0.99								
		060	0.99		CD3(A,B)A		048	0.98								
CF5AA		048	0.98				060	0.98								
F(A,B)4AN(F,B)		048	1.00		CD5A/CD5BA		048	0.98								
		060	1.00		CE3AA		048	0.98								
FB4ANB		070	1.01				060	0.98								
FC4BNB		070	1.01				—	—								

See notes on pg. 18.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F											
		33			37			47			57		
		Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
EDB	CFM	Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†	
Low Speed 38YDA048-30 Outdoor Section With FK4BNB006 Indoor Section													
65	1095	21.7	18.7	1.78	23.3	21.2	1.81	27.3	27.3	1.87	31.8	31.8	1.93
	1195	21.9	18.8	1.78	23.4	21.3	1.81	27.6	27.6	1.86	32.1	32.1	1.91
	1295	22.0	19.0	1.79	23.6	21.5	1.81	27.8	27.8	1.86	32.3	32.3	1.90
	1395	22.2	19.1	1.79	23.8	21.6	1.81	28.0	28.0	1.86	32.6	32.6	1.89
	1495	22.3	19.2	1.80	23.9	21.8	1.81	28.2	28.2	1.85	32.8	32.8	1.89
70	1095	21.0	18.1	1.84	22.7	20.6	1.87	26.8	26.8	1.95	31.2	31.2	2.02
	1195	21.2	18.3	1.84	22.9	20.8	1.87	27.0	27.0	1.94	31.5	31.5	2.00
	1295	21.4	18.5	1.84	23.1	21.0	1.87	27.2	27.2	1.93	31.7	31.7	1.99
	1395	21.6	18.6	1.85	23.2	21.1	1.88	27.4	27.4	1.93	31.9	31.9	1.98
	1495	21.8	18.8	1.86	23.4	21.3	1.88	27.6	27.6	1.93	32.1	32.1	1.97
75	1095	20.3	17.5	1.89	22.0	20.0	1.93	26.2	26.2	2.02	30.5	30.5	2.10
	1195	20.5	17.7	1.90	22.2	20.2	1.93	26.4	26.4	2.01	30.8	30.8	2.08
	1295	20.7	17.9	1.90	22.4	20.4	1.93	26.6	26.6	2.01	31.1	31.1	2.07
	1395	20.9	18.0	1.90	22.6	20.6	1.94	26.8	26.8	2.01	31.3	31.3	2.06
	1495	21.1	18.2	1.91	22.8	20.7	1.94	27.0	27.0	2.01	31.5	31.5	2.06

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	060	1.00	1.16	FC4BN(F,B)	048	1.00	1.26
CC5A/CD5A/CD5BW	048	1.00	1.16		060	1.00	1.30
	060	1.00	1.14	FK4BNB	006	1.00	1.00
CD3(A,B)A	048	1.00	1.16	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE			
	060	1.00	1.16	CC5A/CD5A/CD5BA	060	0.97	1.04
CD5A/CD5BA	048	1.00	1.16	CC5A/CD5A/CD5BW	048	0.96	1.04
CE3AA	048	1.00	1.16		060	0.97	1.02
	060	1.00	1.14	CD3(A,B)A	048	0.96	1.04
CF5AA	048	1.00	1.17		060	0.96	1.04
F(A,B)4AN(F,B)	048	1.00	1.26	CD5A/CD5BA	048	0.96	1.04
	060	1.00	1.30	CE3AA	048	0.96	1.06
FB4ANB	070	1.07	1.24		060	0.96	1.04
FC4BNB	070	1.07	1.24		—	—	—

See notes on pg. 18.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F														
		-3			7			17			27			40		
EDB	CFM	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†		Total	Integ†	
High Speed 38YDA060-30 Outdoor Section With FK4BNB006 Indoor Section																
65	1750	22.5	20.7	3.19	27.9	25.6	3.48	33.8	30.8	3.79	40.5	36.0	4.12	50.4	50.4	4.60
	1850	22.7	20.9	3.22	28.1	25.8	3.52	34.1	31.0	3.82	40.8	36.2	4.15	50.7	50.7	4.62
	1950	22.9	21.1	3.26	28.3	26.0	3.55	34.3	31.3	3.85	41.1	36.5	4.18	51.0	51.0	4.64
	2050	23.1	21.3	3.29	28.5	26.2	3.58	34.5	31.5	3.88	41.3	36.7	4.20	51.3	51.3	4.66
	2150	23.3	21.4	3.33	28.7	26.4	3.62	34.7	31.7	3.92	41.6	36.9	4.23	51.6	51.6	4.69
70	1750	21.7	19.9	3.21	27.1	24.9	3.52	32.9	30.0	3.84	39.5	35.1	4.19	49.3	49.3	4.68
	1850	21.9	20.1	3.25	27.3	25.1	3.56	33.1	30.2	3.87	39.8	35.3	4.22	49.6	49.6	4.70
	1950	22.1	20.3	3.29	27.5	25.3	3.59	33.4	30.4	3.91	40.1	35.6	4.25	49.9	49.9	4.73
	2050	22.2	20.5	3.32	27.7	25.5	3.62	33.6	30.6	3.94	40.3	35.8	4.27	50.2	50.2	4.75
	2150	22.4	20.6	3.36	27.9	25.6	3.66	33.8	30.8	3.97	40.5	36.0	4.30	50.4	50.4	4.78
75	1750	20.8	19.1	3.24	26.3	24.2	3.56	32.0	29.2	3.89	38.5	34.2	4.25	48.1	48.1	4.77
	1850	21.0	19.3	3.28	26.5	24.4	3.59	32.3	29.4	3.92	38.8	34.4	4.28	48.5	48.5	4.79
	1950	21.2	19.5	3.31	26.7	24.6	3.63	32.5	29.6	3.96	39.0	34.7	4.31	48.8	48.8	4.81
	2050	21.3	19.6	3.35	26.9	24.7	3.66	32.7	29.8	3.99	39.3	34.9	4.34	49.0	49.0	4.84
	2150	21.5	19.8	3.39	27.1	24.9	3.70	32.9	30.0	4.02	39.5	35.1	4.37	49.3	49.3	4.86
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section	Size	Cooling									
			Capacity	Power			Capacity	Power								
CD5A/CD5A/CD5BA		060	0.95 1.04		FC4BNB		070	1.00 1.01								
CC5A/CD5A/CD5BW		060	0.98 1.02		FK4BNB		006	1.00 1.00								
CD3(A,B)A		060	0.95 1.04		COILS + 58MVP100-20 VARIABLE-SPEED FURNACE											
CE3AA		060	0.96 1.02		CC5A/CD5A/CD5BA		060	0.91 1.02								
F(A,B)4AN(F,B)		060	1.00 1.05		CD3(A,B)A		060	0.91 1.02								
FB4ANB		070	1.00 1.01		CC5A/CD5A/CD5BW		060	0.93 0.99								
FC4BN(F,B)		060	1.00 1.05		CE3AA		060	0.93 1.00								

See notes on pg. 18.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ∞F								
		40			47			57		
EDB	CFM	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡	Capacity MBtuh		Total Power Kw‡
		Total	Integ†		Total	Integ†		Total	Integ†	
Low Speed 38YDA060-30 Outdoor Section With FK4BNB006 Indoor Section										
65	1335	29.0	29.0	2.12	32.1	32.1	2.12	37.1	37.1	2.12
	1435	29.1	29.1	2.12	32.3	32.3	2.11	37.4	37.4	2.09
	1535	29.3	29.3	2.12	32.5	32.5	2.11	37.6	37.6	2.08
	1635	29.4	29.4	2.12	32.7	32.7	2.11	37.8	37.8	2.07
	1735	29.6	29.6	2.12	32.8	32.8	2.11	37.9	37.9	2.06
	1835	29.7	29.7	2.13	33.0	33.0	2.11	38.1	38.1	2.06
70	1335	28.4	28.4	2.22	31.6	31.6	2.24	36.5	36.5	2.25
	1435	28.6	28.6	2.22	31.8	31.8	2.23	36.8	36.8	2.24
	1535	28.8	28.8	2.22	32.0	32.0	2.23	37.0	37.0	2.22
	1635	28.9	28.9	2.22	32.1	32.1	2.23	37.2	37.2	2.21
	1735	29.1	29.1	2.23	32.3	32.3	2.23	37.4	37.4	2.21
	1835	29.2	29.2	2.23	32.4	32.4	2.23	37.5	37.5	2.20
75	1335	27.8	27.8	2.31	31.0	31.0	2.35	35.9	35.9	2.38
	1435	28.0	28.0	2.31	31.2	31.2	2.34	36.1	36.1	2.37
	1535	28.2	28.2	2.31	31.4	31.4	2.34	36.4	36.4	2.36
	1635	28.3	28.3	2.32	31.6	31.6	2.34	36.6	36.6	2.35
	1735	28.5	28.5	2.32	31.7	31.7	2.34	36.7	36.7	2.34
	1835	28.6	28.6	2.33	31.9	31.9	2.35	36.9	36.9	2.34

Multipliers for Determining the Performance With Other Indoor Sections

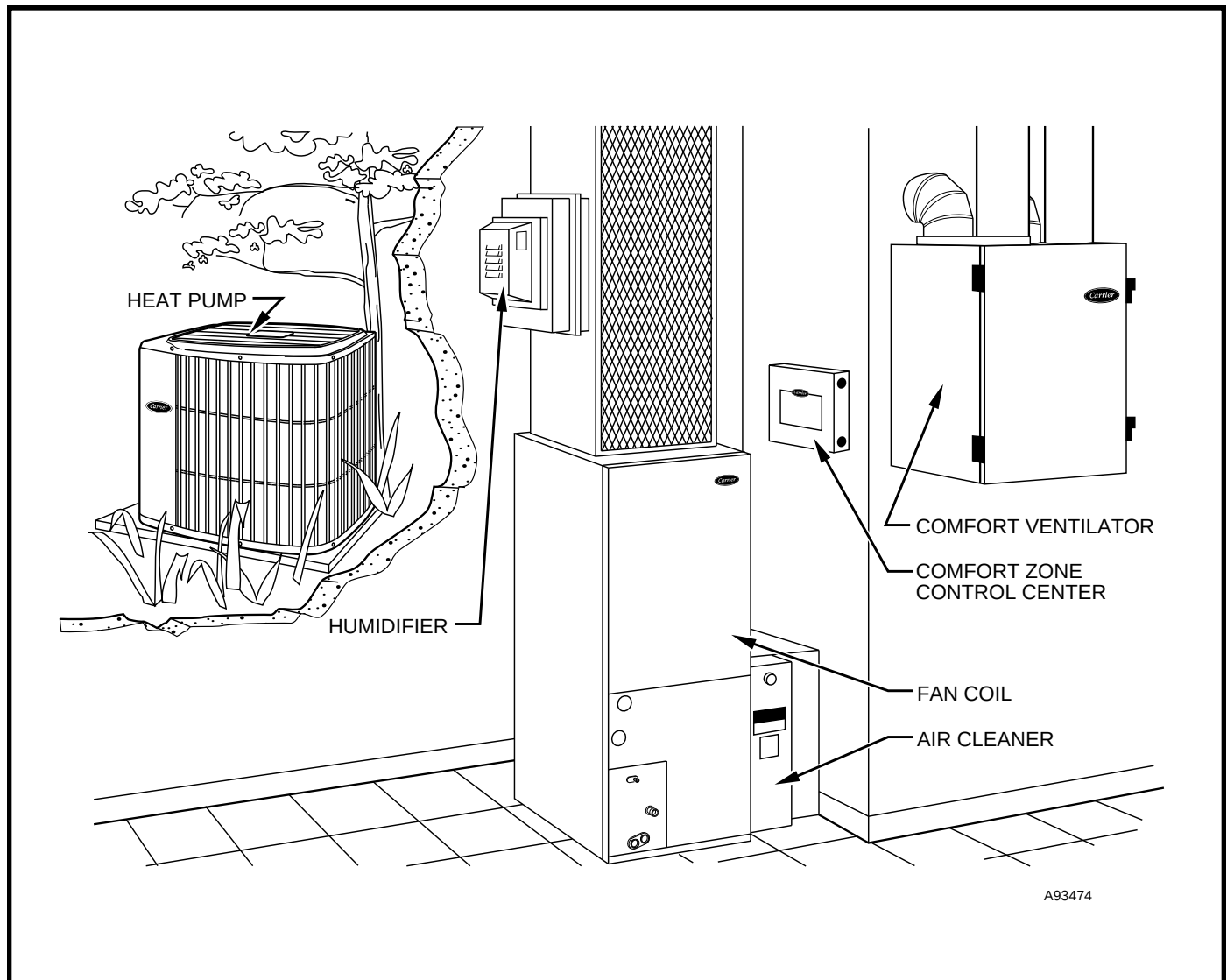
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BW	060	0.97	1.14	FC4BNB	070	1.07	1.20
CD3(A,B)A	060	0.97	1.17	FK4BNB	006	1.00	1.00
CD5A/CD5A/CD5BA	060	0.97	1.17	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE			
CE3AA	060	0.97	1.14	CC5A/CD5A/CD5BA	060	0.93	1.08
F(A,B)4AN(F,B)	060	1.07	1.28	CC5A/CD5A/CD5BW	060	0.94	1.04
FB4ANB	070	1.07	1.20	CD3(A,B)A	060	0.93	1.08
FC4BN(F,B)	060	1.07	1.28	CE3AA	060	0.94	1.05

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

‡ 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

Matched system



System Design

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 in cooling mode is 55°F (12.8°C).
3. Minimum outdoor operating air temperature in heating mode is -30°F (-34.4°C).
4. Maximum outdoor operating air temperature in heating mode is 66°F (18.9°C).
5. Low-ambient operation accessory is not available.
6. Maximum outdoor operating air temperature is 125°F (51.7°C).
7. For reliable operation, unit should be level in all horizontal planes.
8. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft, indoor coil below = 100 ft. (See items 8 and 9 following.)
9. Interconnecting refrigerant tubing is limited to a maximum equivalent of 100 ft.
10. Not more than 3 ft of refrigerant tube should be buried in the ground. If necessary to bury tubes under a sidewalk, provide a minimum 6-in. vertical rise to the valve connections at the unit.
11. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
12. Must be installed with factory-supplied hard shut-off, balanced port TXV (field installed) except for FK and FC Fan Coil units. (Bi-flow, hard shut-off, balanced port TXV's are factory installed.)



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

Book	1	4	
Tab	5a	5a	