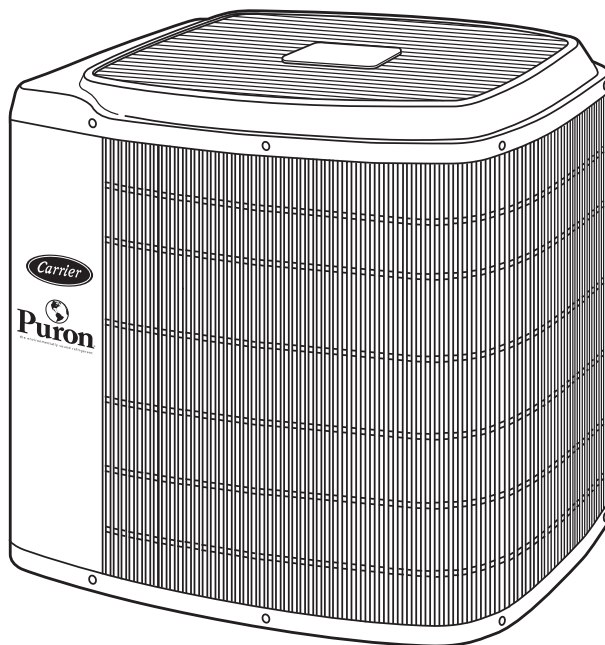




Product Data

Performance™ 12 38YZA (60 Hz) Heat Pump with Puron® Refrigerant

Sizes 018 thru 060



Performance
SERIES

Carrier's technological leadership has risen to a new level with the development of the Performance™ Series 38YZA Heat Pump, the outdoor section of a superior split heat pump system. This leadership effort has yielded a product that appeals to consumers for all of its unique benefits.

Puron®, the environmentally sound refrigerant — The first unique feature of the 38YZA is the environmentally sound nature of Puron, which provides the homeowner with additional peace of mind because their heating and cooling system's refrigerant has zero ozone-depletion potential.

Second, thanks to the performance advantage of Puron-refrigerant, the 38YZA is extremely efficient. In fact, the 38YZA features some of the lowest energy usages of single speed heat pumps available from Carrier. Maximum performance and efficiency are made possible through the use of the FX4A and FV4A fan coils, custom made for applications with Puron refrigerant.

Third, the cost of service will potentially be reduced in the future as the industry's older refrigerant, R-22 is gradually phased out through Federally legislated production limitations.

Carrier's Infinity® Controls — These industry-leading controls, when installed with Carrier's Ideal Humidity™ variable-speed furnaces or fan coils, provide the homeowner with:

- unparalleled control of temperature, humidity, indoor air quality, and zoning
- unprecedented ease of use
- simple operation through on-screen, text-based service reminders

Optional remote access through telephone or Internet is also available

when combined with a remote connectivity kit.

FEATURES/BENEFITS

Silencer System/Quiet Operation —

The Silencer System features the Silencer™ top design, energy-efficient fan and motor, sound hood and discharge muffler. The Silencer Design improves airflow patterns and requires less energy. The energy efficient fan and fan motor add to quiet operation while moving air more efficiently. The sound hood muffles noise from the operation. The discharge muffler minimizes low frequency sound and pressure pulsation generated by the compressor discharge gas.

Compressor — The 38YZA features the efficient Copeland Scroll compressor, specially designed for applications using Puron refrigerant, with its thicker shell, and an anti-reverse rotation device for superior reliability and quiet operation. In addition, each compressor is mounted on rubber isolators for additional sound reduction. For improved serviceability, all models are equipped with a compressor terminal plug. The scroll compressor will start under most system loads, thus eliminating the need for start assisting components. Continuous operation is approved down to -30°F (-34.4°C) in the heating mode and down to 55°F (12.8°C) in the cooling mode. (See heating and cooling performance tables.) The scroll compressor is covered with a standard 10-year limited warranty.

Accumulator/Reliable Operation —

A properly sized accumulator which minimizes liquid refrigerant from

reaching the compressor is standard on this unit.

Built-In Reliable Components —

The 38YZA's principal feature of compressor protection is further enabled by a high pressure switch; a discharge temperature switch for compressor overtemperature protection; and a low pressure switch for loss of charge protection. Reliable operation is also optimized with a heavy duty, quiet and easy to service reversing valve.

Defrost Control Board — This board incorporates a built-in 5-minute compressor time-delay relay, defrost relay, defrost timer, and low-voltage terminal board. The defrost control is a time/temperature initiation/termination control which includes 4 field-selectable (DIP switch) time periods of 30, 60, 90, and 120 minutes. This control also includes a field-selectable (DIP switch) Quiet Shift defrost mode which, if selected, maintains extremely quiet operation during defrost.

Thermostatic Expansion Valve (TXV)

— This unit must be installed with a Puron-refrigerant TXV on the indoor coil. The FX4 and FV4 indoor fan coils come factory equipped with a bi-flow Puron-refrigerant 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 Puron-refrigerant TXV must be installed. See accessory list in this publication for correct part number.

WeatherArmor™ III System includes three components:

— Casing steel is galvanized and coated

with a layer of zinc phosphate. A 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 cabinet exterior are ceramic coated for a long-lasting, rust-resistant, quality appearance.

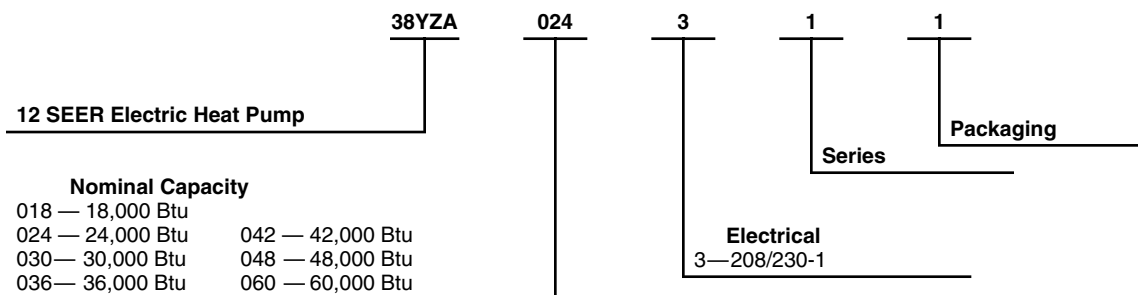
—The coil is protected with an enhanced WeatherArmor™ heavy duty inlet grille. With spacing of 3/8-in. and construction of coated wire, the guard helps protect the coil from inclement weather, vandalism, and incidental damage. It provides protection while not restricting airflow and maintaining ease of coil inspection and cleaning.

Unit Design—All units are equipped with totally enclosed fan motors for greater reliability under rain and snow conditions. The large, wraparound coil uses copper tubing and enhanced sine wave aluminum fins and is designed for optimum heat transfer during heating and cooling. The vertical air discharge carries the sound and air up and away from adjacent patio areas and foliage. Rows of composite coils can be cleaned with a common garden hose.

External Service Valves—Both service valves are the brass, back seating type with sweat connections. Each valve has a service port for ease of checking operating refrigerant pressures. A separate suction service port provides for ease of checking operating pressure in the heating mode.

Limited Warranty—5-year limited warranty on all parts and 10-year limited warranty on the compressor.

Model number nomenclature





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



* As an ENERGY STAR® Partner, Carrier Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



APPROVALS
ISO 9001
EN 29001
BS 5750 PART 1
ANSI/ASQC Q91

REGISTERED
QUALITY SYSTEM

*Refer to the combination ratings in the Product Data Digest for system combinations that meet Energy Star® efficiency standards.

Physical data

UNIT SIZE-SERIES	018-31, 32	024-31, 32	030-31, 32	036-31, 32	042-31, 32	048-31, 32	060-31, 32
OPERATING WEIGHT (Lb)	136	144	189	206	213	258	287
COMPRESSOR Type	Scroll						
REFRIGERANT Control Charge (Lb) @ 15 Ft†	Puron (R-410A) TXV (Cooling)						
	5.5	5.25	5.375	8.375	8.63	13.25	13.25
CONDENSER FAN Air Discharge Air Quantity (CFM) Motor HP Motor RPM	Propeller Type, Direct Drive Vertical						
	1600	1900	2400	2800	2800	3300	3300
	1/12	1/8	1/5	1/5	1/5	1/4	1/4
	1100	1100	825	825	825	1100	1100
CONDENSER COIL Face Area (Sq Ft) Fins per In. Rows Circuits	Copper Tube, Aluminum Plate Fin						
	10.83	10.83	12.12	18.18	12.12	18.18	18.18
	25	25	25	25	20	20	20
	1	1	1	1	2	2	2
	2	2	2	4	3	4	5
VALVE CONNECTION (In. ID) Vapor Liquid	Sweat						
	5/8	5/8	3/4	3/4	7/8	7/8	7/8
				3/8			

† Charge quantity is for 15 ft of interconnecting tubing. For tubing lengths greater than 15 ft horizontal or 20 ft vertical differential, see Residential Split-Systems Long-Line Application Guideline for additional refrigerant requirements.

NOTE: 1. See unit Installation Instructions for proper installation.

RECOMMENDED TUBE DIAMETERS

UNIT SIZE	LIQUID TUBE DIAMETER (IN.)		VAPOR TUBE DIAMETER (IN.)	
	0 to 50 Ft Tube Length		0 to 50 Ft Tube Length	0 to 50 Ft Alternate
018	3/8		5/8	5/8
024	3/8		5/8	3/4
030, 036	3/8		3/4	5/8, 7/8
042, 048	3/8		7/8	3/4
060	3/8		1-1/8	7/8

NOTES:

1. Tube diameters are for lengths up to 50 ft. For tubing lengths greater than 50 ft horizontal and/or 20 ft vertical differential, consult the Application Guideline and Service Manual — Air Conditioners and Heat Pumps Using Puron® Refrigerant.
2. Refrigerant tubes and indoor coils must be evacuated to 500 microns to minimize contamination and moisture in the system.

METERING DEVICE

UNIT SIZE	SERIES	OUTDOOR PISTON	INDOOR TXV*	REQUIRED SUBCOOLING (°F)
018	31, 32	40	KSATX0201PUR	15
024	31, 32	46	KSATX0201PUR	14
030	31, 32	49	KSATX0201PUR	10
036	31, 32	57	KSATX0301PUR	14
042	31, 32	59	KSATX0301PUR	11
048	31, 32	63	KSATX0401PUR	10
060	31, 32	73	KSATX0501PUR	12

* TXV must be installed when indoor coil is not equipped with a Puron-refrigerant approved TXV. TXV listed is for any approved coil combination. All TXVs are Puron specific bi-flow, hard shutoff.

Accessories

ORDERING NUMBER	DESCRIPTION
KAATD0101TDR	Time-Delay Relay — All Sizes
KSALA0301410	Low-Ambient Pressure Switch Kit — All Sizes
KSALA0401AAA*	MotorMaster®—Low-Ambient Controller — All Sizes
HC34GE232	Ball-Bearing Fan Motor — Sizes 018, 024
HC38GE231	Ball-Bearing Fan Motor — Sizes 030–042
HC40GE232	Ball-Bearing Fan Motor — Sizes 048, 060
KAFT0101AAA	Evaporator Freeze Thermostat — All Sizes
KHAIR0101AAA	Isolation Relay — All Sizes
KSAHS1501AAA	Start Capacitor and Relay — Sizes 018–042
KSAHS1601AAA	Start Capacitor and Relay — Sizes 048, 060
KAACS0201PTC	Start Assist — PTC — All Sizes
KAACH1201AAA	Crankcase Heater — Sizes 018–042
Standard	Crankcase Heater — Sizes 048, 060
KHAOT0301FST	Outdoor Thermostat — All Sizes
KHAOT0201SEC	Secondary Outdoor Thermostat — All Sizes
KSATX0201PUR†	Bi-Flow TXV (Hard Shutoff) — Size 018–030
KSATX0301PUR†	Bi-Flow TXV (Hard Shutoff) — Sizes 036, 042
KSATX0401PUR†	Bi-Flow TXV (Hard Shutoff) — Size 048
KSATX0501PUR†	Bi-Flow TXV (Hard Shutoff) — Size 060
KHAPG0101PGS	Pressure Guard™ Kit — Sizes 018, 024, 042 and 048
KHAPG0201PGS	Pressure Guard™ Kit — Sizes 030, 036 and 060
KHALS0401LLS	Liquid-Line Solenoid Valve — All Sizes
KSASF0101AAA	Support Feet — 4 in. — All Sizes
KHASS0206MPK	Snow Stand — All Sizes
KAACF0801MED	Coastal Filter — All Sizes

* Ball-bearing motor must be used.

† Must be applied on coils not equipped with Puron TXV.

INFINITY®* CONTROLS	DESCRIPTION
SYSTXCCUID01	Infinity Control Deluxe 7-Day Programmable (Wall-mounted system control.)
SYSTXCCUIZ01	Z Infinity Control Deluxe Zoning 7-Day Programmable (Wall-mounted control for a multi-zone system.)
SYSTXCC4ZC01	O Infinity 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.)
SYSTXCCSMS01	N Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCRRS01	I Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCSAM01	G Infinity System Access Module (Hardware for wireless access and control via phone or internet.)
SYSTXCCNIM01**	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators or older two-speed outdoor models to system.)
SYSTXXBPU01	Decorative Back Plate for Infinity Control (Decorative wall plate.)

* When applied with Carrier's IdealHumidity™ series 58MVP, 58CV(A,X) and FE Indoor Models.

** Must be installed in Dual-Fuel Infinity system applications.

THERMOSTAT/SUBBASE PKG	DESCRIPTION
TSTATCCPRH01-B*	Thermidistat™ Control — Non-Programmable/Programmable Thermostat with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)
TSTATCCPHP01-B	Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
TSTATCCNHP01-B	Thermostat — Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
TSTATCCSHP01	Standard Programmable Thermostat—Manual Changeover, 5-2 Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TSTATCCBHP01*	Builder's Thermostat — Heat Pump, Non-Programmable, °F/°C, 2-Stage Heat/1-Stage Cool, Manual Changeover
TSTATCCPDF01-B*	Dual Fuel Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, Includes Outdoor Sensor (TSTATXXSEN01-B)
TSTATXXSEN01-B**	Outdoor Air Temperature Sensor
TSTATXXNBP01†	Backplate for Non-Programmable Thermostat
TSTATXXBP01†	Backplate for Programmable Thermostat and Thermidistat™ Control
TSTATXXBBP01†	Backplate for Builder's Thermostat
TSTATXXSBP01	Backplate for Standard Programmable Thermostat
TSTATXXCNV10‡	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack

* Do not use in zoning heat pump applications.

† This plate is designed to cover surrounding wall area located behind thermostat.

‡ Thermostat conversion kit is a 24-vac accessory that can turn a 4-wire thermostat application into a 5-wire application. This kit can also be used to replace a broken thermostat wire, or add an extra wire when needed.

** Outdoor temperature sensor is an accessory for all Carrier electronic thermostats, except the non-programmable air conditioner version and builder's thermostats. It allows the temperature at a remote location (outdoors) to be displayed on the thermostat.

The outdoor air temperature sensor *must be* used with the dual fuel thermostat.

The outdoor air temperature sensor is included with the Thermidistat Control and dual fuel thermostat.

Accessory usage guideline

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATIONS (BELOW 55°F)	REQUIRED FOR LONG-LINE APPLICATIONS* (OVER 50 FT)
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Compressor Start Assist — Capacitor and Relay	Yes	Yes
Puron Low Ambient Pressure Switch	Yes	No
Wind Baffle	See Low-Ambient Pressure Switch Instructions	No
Support Feet	Recommended	No
Puron Hard Shutoff TXV	Yes†	Yes†
Puron Liquid-Line Solenoid Valve for Heating	No	See Long-Line Application Guideline

* For tubing line sets between 50 and 175 ft and/or 20 ft elevation difference between indoor and outdoor units, refer to the Application Guideline and Service Manual—Air Conditioners and Heat Pumps Using Puron® Refrigerant.

† Required for all applications.

Accessory description and usage (Listed alphabetically)

1. Ball-Bearing Fan Motor

A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.

Usage Guideline:

Required on all units when MotorMaster®—Low-Ambient Controller is installed.

2. Coastal Filter

A mesh screen inserted under the top cover and inside the base pan to protect the condenser coil from salt damage without restricting airflow.

3. Compressor Start Assist – Capacitor and Relay

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

Note: Heat pumps with Puron-refrigerant and a reciprocating compressor have capacitor and relay factory supplied.

Usage Guideline:

Required for single-phase reciprocating compressors in the following applications:

- Long line
- Low ambient cooling
- Hard shut off expansion valve on indoor coil

Required for single-phase scroll compressors in the following applications:

- Long line
- Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

4. Compressor Start Assist — PTC Type

Solid state electrical device which gives a "soft" boost to the compressor at each start-up.

Usage Guideline:

Suggested in installations with marginal power supply.

5. 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.

Note: Some heat pumps are factory supplied with a crankcase heater. See accessory list for units that come standard with a crankcase heater. For units that do not, use the guideline below.

Usage Guideline:

- Required in low ambient cooling applications.
- Required in long line applications.
- Suggested in all commercial applications.

Accessory description and usage (Listed alphabetically) continued

6. 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.

7. 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.

8. 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 Application Guideline.

9. 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 (approximately 200 psig to 365 psig). 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 or MotorMaster®—Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

10. MotorMaster®—Low-Ambient Controller

A fan-speed control device activated by a temperature sensor designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at 100°F ± 10°F (37.8°C ± 12°C).

Usage Guideline:

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

Suggested for all commercial applications

11. 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.

12. Outdoor Thermostat

An SPDT temperature-actuated switch which turns on supplemental electric heaters when outdoor air temperature drops below a user-selected set point.

Usage Guideline:

Electric supplemental heat applications in non-variable speed indoor units when electric heat staging is desired.

13. Pressure Guard Kit

A pressure switch kit that cycles the outdoor fan to limit the heating head pressure below a pre-determined pressure setting.

Usage Guideline:

Some local codes may require limiting the heating head pressure in the vapor line in some applications.

14. Secondary Outdoor Thermostat

An SPDT temperature-actuated switch which turns on third-stage of supplemental electric heaters when outdoor air temperature drops below the second-stage set point.

Usage Guideline:

Outdoor thermostat applications where electric heater is capable of 3-stage operation.

15. Snow Stand

Coated wire rack which supports unit 18 in. 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 snowdrift locations.

Heat pump installations in areas of prolonged subfreezing temperatures.

All commercial installations.

16. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Usage Guideline:

Suggested when unit is installed closer than 15 ft to quiet areas—bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft apart.

17. 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.

Usage Guideline:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

18. 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:

Required in all heat pump applications designed with Puron refrigerant.

19. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

Note: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.

Electrical data

UNIT SIZE-SERIES	V-PH	OPER VOLTS*		COMPR		FAN FLA	MCA	MIN WIRE SIZE 60°C/75°C**	MAX LENGTH (Ft) 60°C/75°C‡	MAX FUSE† OR CKT BKR AMPS
		Max	Min	LRA	RLA					
018-31, 32	208-230-1	253	197	51.0	10.3	0.5	13.4	14/14	59/56	20
024-31, 32				61.0	13.5	0.8	17.7	14/14	44/42	25
030-31, 32				72.5	14.7	1.1	19.5	14/14	39/37	30
036-31, 32				83.0	19.3	1.1	25.2	12/12	50/48	35
042-31, 32				104.0	21.1	1.1	27.5	10/10	71/68	40
048-31, 32				109.0	20.5	1.4	27.0	10/10	74/70	40
060-31, 32				158.0	27.6	1.4	35.9	8/8	86/82	60

* Permissible limits of the voltage range at which unit will operate satisfactorily. Operation outside these limits may result in unit failure.

† Time-delay fuse or Circuit Breaker.

‡ Length shown is as measured 1 way along the wire path between the unit and the 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

LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

NOTE: Control circuit is 24v 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.


A-weighted sound power (dBA)

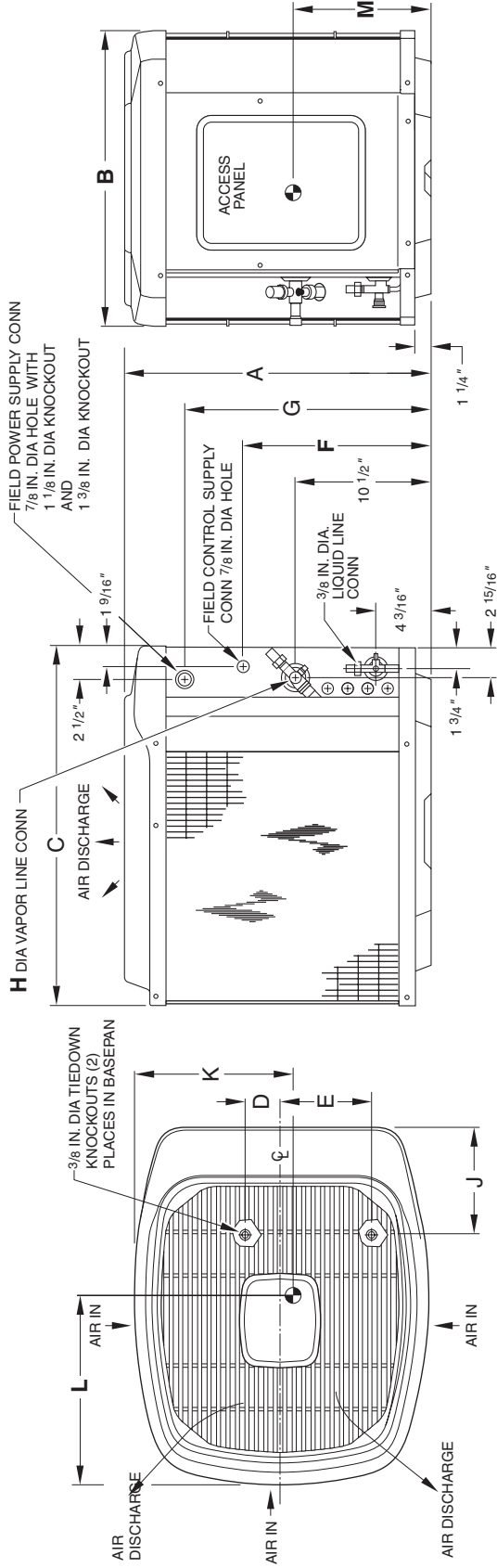
UNIT SIZE-SERIES	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018-31, 32	73	45.0	51.5	61.5	62.0	57.5	52.5	44.5
024-31, 32	73	47.0	59.5	62.5	61.0	57.5	53.0	45.0
030-31, 32	73	50.0	53.5	61.0	63.5	56.5	50.0	41.0
036-31, 32	74	50.0	56.0	61.0	67.0	60.0	54.0	46.5
042-31, 32	76	54.5	61.5	64.0	61.5	59.5	55.5	47.0
048-31, 32	78	50.0	61.5	66.5	65.5	63.5	60.5	51.5
060-31, 32	78	51.0	62.0	65.0	66.5	62.5	60.5	54.5

Note: Tested in accordance with ARI Standard 270-95. (Not listed with ARI).

Dimensions

NOTES:

1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F (unless low ambient control is used) max 125°F.
3. Maximum outdoor operating ambient in heating mode is 66°F.
4. Series designation is the 13th position of the unit model number.
5. Center of gravity .

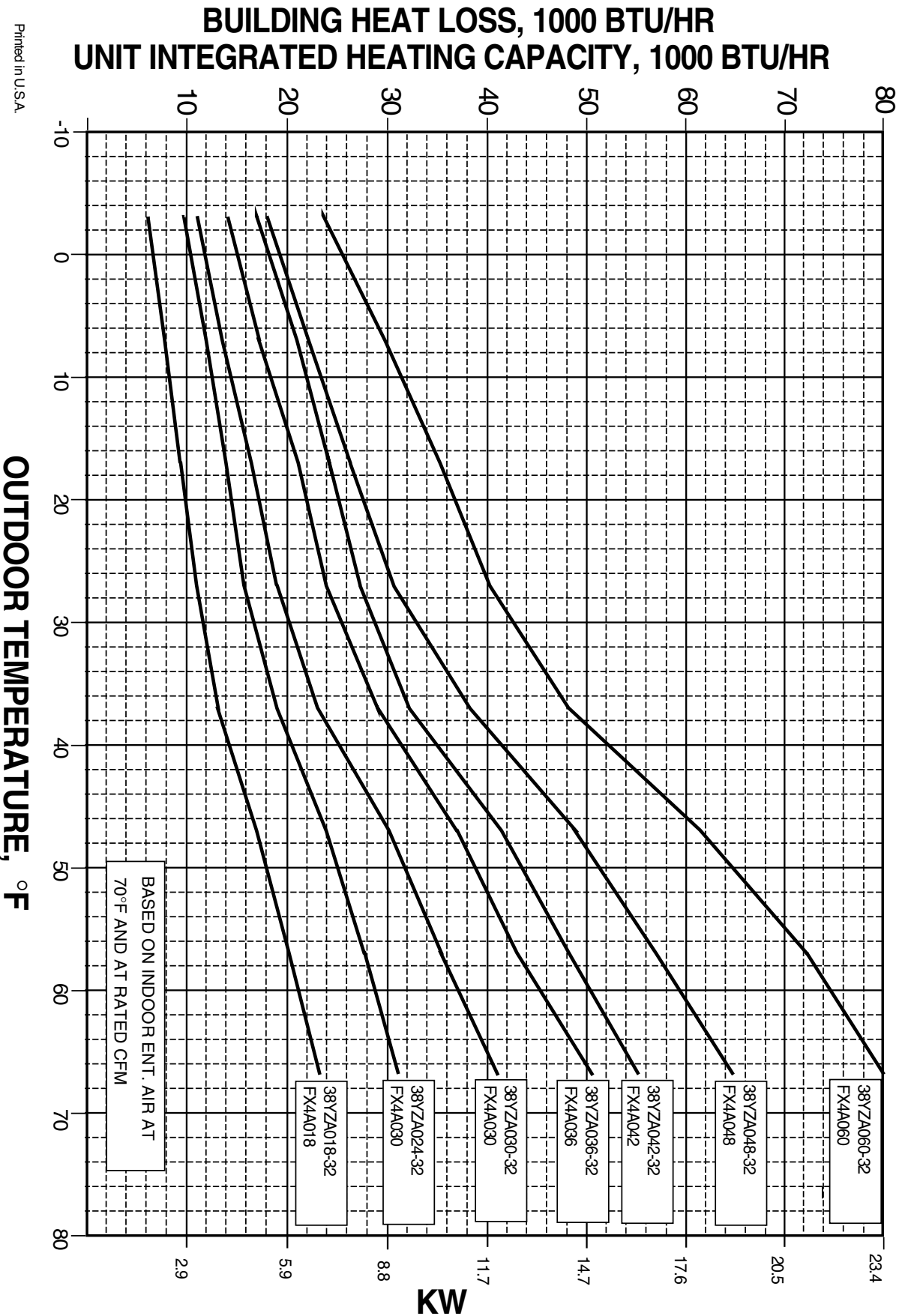


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DIMENSIONS (IN.)

UNIT SIZE	SERIES	UNIT DIMENSIONS													MINIMUM MOUNTING PAD DIMENSIONS		
		A	B	C	D	E	F	G	H	J	K	L	M	Support Feet	Snow Stand		
018, 024	1, 2	33-13/16	22-1/2	27-1/2	2-13/16	6-15/16	21-1/2	27-7/8	5/8	8-3/16	12	13-3/4	12	20 x 27	24 x 28		
030	1, 2	27-13/16	30	34-15/16	4	9-3/4	15-1/2	21-7/8	3/4	8-3/16	14	13-1/8	13-3/4	26 x 32	31 x 35		
036	1, 2	39-13/16	30	34-15/16	4	9-3/4	15-1/2	33-7/8	3/4	8-3/16	16-1/8	14-3/8	14-1/4	26 x 32	31 x 35		
042	1, 2	27-13/16	30	34-15/16	4	9-3/4	15-1/2	21-7/8	7/8	8-3/16	16-1/4	14	13-1/8	26 x 32	31 x 35		
048	1, 2	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	7/8	8-3/16	16-1/4	14-1/4	14-1/2	26 x 32	31 x 35		
060	1, 2	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	7/8	8-3/16	16	13-3/4	13-3/4	26 x 32	31 x 35		

38YZA BALANCE POINT WORKSHEET



Detailed cooling capacities*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																							
		75				85				95				105				115				125			
		Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**	Capacity MBtu/h†		Total Sys-tem kW**			
Total	Sens‡	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡				
CFM	EWB	38YZA018-31, 32 Outdoor Section With FX4BNF018 Indoor Section																							
525	72	20.3	10.2	1.34	19.4	9.89	1.5	18.3	9.52	1.69	17.3	9.14	1.89	16.1	8.73	2.11	14.7	8.26	2.36						
	67	18.6	13.1	1.32	17.7	12.7	1.49	16.8	12.3	1.67	15.8	11.9	1.87	14.7	11.5	2.1	13.4	11	2.34						
	63††	17.3	12.7	1.31	16.5	12.3	1.48	15.6	11.9	1.66	14.7	11.5	1.86	13.6	11.1	2.09	12.5	10.6	2.32						
	62	17.1	15.8	1.31	16.3	15.4	1.48	15.4	15	1.66	14.5	14.4	1.86	13.7	13.7	2.09	12.7	12.7	2.33						
	57	16.6	16.6	1.31	16	16	1.47	15.3	15.3	1.66	14.5	14.5	1.86	13.7	13.7	2.09	12.7	12.7	2.33						
600	72	20.7	10.7	1.37	19.7	10.4	1.53	18.6	10	1.72	17.5	9.63	1.92	16.2	9.22	2.14	14.8	8.75	2.39						
	67	18.9	13.9	1.35	18	13.5	1.52	17	13.1	1.7	16	12.8	1.9	14.8	12.3	2.13	13.5	11.8	2.37						
	63††	17.6	13.5	1.34	16.7	13.1	1.51	15.8	12.7	1.69	14.8	12.3	1.89	13.8	11.8	2.11	12.6	11.3	2.35						
	62	17.4	16.9	1.34	16.6	16.4	1.51	15.8	15.8	1.69	15	15	1.89	14.1	14.1	2.12	13.1	13.1	2.36						
	57	17.3	17.3	1.34	16.6	16.6	1.5	15.8	15.8	1.69	15	15	1.89	14.1	14.1	2.12	13.1	13.1	2.36						
675	72	20.9	11.2	1.39	19.9	10.9	1.56	18.8	10.5	1.74	17.6	10.1	1.95	16.3	9.68	2.17	14.9	9.21	2.41						
	67	19.1	14.7	1.38	18.2	14.4	1.55	17.2	14	1.73	16.1	13.5	1.93	15	13.1	2.15	13.7	12.6	2.4						
	63††	17.8	14.2	1.37	17	13.9	1.53	16	13.5	1.72	15	13	1.92	13.9	12.6	2.14	12.7	12	2.38						
	62	17.8	17.8	1.37	17	17	1.54	16.3	16.3	1.72	15.4	15.4	1.92	14.5	14.5	2.15	13.4	13.4	2.39						
	57	17.8	17.8	1.37	17.1	17.1	1.53	16.3	16.3	1.72	15.4	15.4	1.92	14.5	14.5	2.15	13.4	13.4	2.39						

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	024	1.00	1.02	COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE			
CC5A/CD5AW	024	0.99	1.01	CK3BA	024	1.02	0.93
CE3AA	024	0.99	1.00	CK5A/CK5BA	024	1.01	0.92
CF5AA	024	1.00	1.01	CK5A/CK5BW	024	1.01	0.92
CK3BA	024	1.00	1.01	CK5PA	024	1.01	0.92
CK5A/CK5BA	024	1.00	1.01	CK5PW	024	1.01	0.92
CK5A/CK5BW	024	1.00	1.01	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CK5PA	024	1.00	1.01	CC5A/CD5AA	024	1.01	0.93
CK5PW	024	1.00	1.01	CC5A/CD5AW	024	1.01	0.93
F(A,B)4BN(F,C)	024	1.00	1.00	CE3AA	024	1.01	0.93
FC4CNF	024	1.00	1.00	CK3BA	024	1.02	0.93
FE4ANF	002	1.02	0.90	CK5A/CK5BA	024	1.02	0.93
FF1DNA	024	1.00	1.01	CK5A/CK5BW	024	1.02	0.93
FG3AAA	024	0.98	1.01	CK5PA	024	1.02	0.93
FK4DNF	002	1.02	0.90	CK5PW	024	1.02	0.93
FV4BNF	002	1.02	0.90	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
FX4BNF	018	1.00	1.00	CC5A/CD5AW	024	1.01	0.93
	—	—	—	CE3AA	024	1.01	0.93

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38YZA024-31, 32 Outdoor Section With FX4BNF030 Indoor Section																			
700	72	28.6	14.1	1.81	27.2	13.6	2.02	25.7	13.0	2.26	24.1	12.4	2.51	22.4	11.8	2.78	20.5	11.2	3.06
	67	26.2	17.7	1.80	24.9	17.2	2.01	23.6	16.6	2.24	22.1	16.0	2.49	20.5	15.4	2.75	18.8	14.7	3.03
	63††	24.4	17.3	1.79	23.2	16.7	2.00	22.0	16.2	2.22	20.6	15.6	2.47	19.1	14.9	2.73	17.5	14.2	3.01
	62	24.0	21.2	1.79	22.8	20.7	1.99	21.6	20.1	2.22	20.3	19.5	2.47	18.9	18.7	2.73	17.6	17.6	3.01
	57	23.0	23.0	1.78	22.1	22.1	1.99	21.1	21.1	2.22	20.0	20.0	2.46	18.9	18.9	2.73	17.6	17.6	3.01
825	72	29.2	14.9	1.85	27.8	14.3	2.06	26.2	13.8	2.30	24.5	13.2	2.55	22.7	12.6	2.82	20.7	11.9	3.10
	67	26.8	19.1	1.84	25.4	18.5	2.05	24.0	18.0	2.28	22.5	17.4	2.53	20.8	16.7	2.80	19.0	16.0	3.07
	63††	25.0	18.6	1.83	23.7	18.0	2.04	22.4	17.4	2.27	21.0	16.8	2.51	19.4	16.2	2.78	17.8	15.5	3.05
	62	24.6	23.1	1.83	23.4	22.5	2.04	22.2	21.8	2.26	20.9	20.9	2.51	19.7	19.7	2.78	18.3	18.3	3.06
	57	24.2	24.2	1.83	23.1	23.1	2.04	22.1	22.1	2.26	20.9	20.9	2.51	19.6	19.6	2.78	18.2	18.2	3.06
950	72	29.7	15.6	1.89	28.2	15.1	2.10	26.5	14.5	2.34	24.8	14.0	2.59	22.9	13.4	2.86	20.9	12.7	3.14
	67	27.2	20.4	1.88	25.8	19.8	2.09	24.3	19.3	2.32	22.8	18.7	2.57	21.1	18.0	2.84	19.2	17.3	3.11
	63††	25.4	19.8	1.87	24.1	19.2	2.08	22.7	18.6	2.31	21.2	18.0	2.55	19.7	17.3	2.82	18.0	16.6	3.09
	62	25.2	24.8	1.87	24.0	24.0	2.08	22.8	22.8	2.31	21.6	21.6	2.56	20.2	20.2	2.83	18.8	18.8	3.11
	57	25.1	25.1	1.87	24.0	24.0	2.08	22.8	22.8	2.31	21.6	21.6	2.56	20.3	20.3	2.83	18.8	18.8	3.11

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	1.00	1.01	CCK5A/CK5BA	036	1.00	0.91
CC5A/CD5AW	036	1.00	1.01	CK5A/CK5BT	036	1.00	0.91
CE3AA	036	0.99	1.01	CK5PA	036	1.00	0.91
CF5AA	036	0.99	1.00	CK5PT	036	1.00	0.91
CK3BA	036	1.00	1.00	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CK5A/CK5BA	036	1.00	1.00	CC5A/CD5AA	036	1.02	0.94
CK5A/CK5BT	036	1.00	1.00	CK3BA	036	1.02	0.94
CK5A/CK5BW	036	1.00	1.00	CK5A/CK5BA	036	1.02	0.94
CK5PA	036	1.00	1.00	CK5A/CK5BE	042	0.93	0.87
CK5PT	036	1.00	1.00	CK5A/CK5BW	036	1.02	0.94
CK5PW	036	1.00	1.00	CK5PA	036	1.02	0.94
F(A,B)4BN(F,C)	030	0.98	1.00	CK5PW	036	1.02	0.94
FC4CNF	030	0.98	1.00	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
FE4ANF	002	1.00	0.93	CC5A/CD5AW	036	1.02	0.93
	003	1.00	0.91	CK5A/CK5BW	036	1.02	0.93
FG3AAA	036	0.98	1.00	CK5PW	036	1.02	0.93
FK4DNF	001	1.00	0.93	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
	002	1.00	0.93	CC5A/CD5AW	036	1.02	0.98
	003	1.00	0.91	CK5A/CK5BW	036	1.02	0.98
FV4BNF	002	1.00	0.93	CK5PW	036	1.02	0.98
	003	1.00	0.91	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
FX4BNF	030	1.00	1.00	CC5A/CD5AW	036	1.02	0.94
		1.00	1.00	CK5A/CK5BW	036	1.02	0.94
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE				CK5PW	036	1.02	0.94
CE3AA	036	0.98	0.91		036	1.02	0.94
CK3BA	036	1.02	0.93		—	—	—

See notes on pg. 25.

Detailed cooling capacities continued*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		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**	Capacity MBtu/h†		Total System kW**	
Total	Sens‡			Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡	Total	Sens‡				
38YZA030-31, 32 Outdoor Section With FX4BNF030 Indoor Section																			
900	72	33.3	17.1	2.02	31.7	16.5	2.24	29.9	15.9	2.49	28.0	15.2	2.76	25.5	14.4	3.04	23.1	13.6	3.35
	67	31.2	22.4	2.02	29.4	21.7	2.23	27.8	21.1	2.48	26.1	20.4	2.75	24.0	19.6	3.04	21.7	18.7	3.35
	63††	29.3	21.9	2.01	27.7	21.2	2.23	26.2	20.6	2.47	24.6	19.9	2.75	22.9	19.1	3.05	20.9	18.3	3.39
	62	29.0	27.5	2.01	27.4	26.7	2.22	26.1	25.9	2.47	24.7	24.7	2.75	23.0	23.0	3.04	21.0	21.0	3.35
	57	28.5	28.5	2.00	27.1	27.1	2.22	25.9	25.9	2.47	24.4	24.4	2.74	22.8	22.8	3.04	21.0	21.0	3.35
1050	72	33.6	18.0	2.08	31.9	17.4	2.30	30.0	16.7	2.54	28.1	16.0	2.81	25.9	15.3	3.11	23.2	14.4	3.41
	67	31.5	24.0	2.07	30.0	23.4	2.29	28.0	22.6	2.53	26.2	21.9	2.80	24.0	21.1	3.09	22.1	20.3	3.42
	63††	29.7	23.4	2.06	27.9	22.6	2.28	26.4	22.0	2.53	24.8	21.3	2.80	23.0	20.5	3.10	20.9	19.6	3.43
	62	29.6	29.4	2.06	28.1	28.1	2.28	26.8	26.8	2.53	25.1	25.1	2.80	23.6	23.6	3.10	21.4	21.4	3.40
	57	29.6	29.6	2.06	28.0	28.0	2.28	26.6	26.6	2.53	25.1	25.1	2.80	23.4	23.4	3.09	21.4	21.4	3.40
1200	72	33.8	18.8	2.13	32.0	18.1	2.35	30.1	17.5	2.60	28.1	16.8	2.86	25.8	16.0	3.16	23.3	15.2	3.47
	67	31.8	25.5	2.13	30.1	24.9	2.34	28.4	24.2	2.59	26.3	23.4	2.85	24.3	22.5	3.15	22.0	21.4	3.46
	63††	29.9	24.8	2.12	28.1	24.0	2.33	26.5	23.3	2.58	24.9	22.6	2.85	23.0	21.7	3.15	21.0	20.7	3.48
	62	30.3	30.3	2.12	28.8	28.8	2.34	27.4	27.4	2.59	25.7	25.7	2.85	23.9	23.9	3.15	22.0	22.0	3.47
	57	30.3	30.3	2.12	28.7	28.7	2.34	27.2	27.2	2.58	25.6	25.6	2.85	23.8	23.8	3.15	21.7	21.7	3.46

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	1.00	1.00	CK5PA	036	0.98	0.89
CC5A/CD5AW	036	1.00	1.00	CK5PT	036	0.98	0.89
CE3AA	036	0.99	1.00	COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE			
CF5AA	036	1.00	1.01	CE3AA	036	0.96	0.88
CK3BA	036	1.00	1.00	CK3BA	036	0.98	0.88
CK5A/CK5BA	036	1.00	1.00	CK5A/CK5BA	036	0.98	0.88
CK5A/CK5BT	036	1.00	1.00	CK5A/CK5BW	036	0.98	0.88
CK5A/CK5BW	036	1.00	1.00	CK5PA	036	0.98	0.88
CK5PA	036	1.00	1.00	CK5PT	036	0.98	0.88
CK5PT	036	1.00	1.00	CK5PW	036	0.98	0.88
CK5PW	036	1.00	1.00	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
F(A,B)4BN(F,C)	036	0.99	1.02	CC5A/CD5AA	036	0.96	0.92
FC4CNF	036	0.99	1.02	CK5A/CK5BA	036	0.96	0.92
FE4ANF	002	1.00	0.88	CK5PA	036	0.96	0.92
	003	1.00	0.90	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
FG3AAA	036	0.99	1.00	CC5A/CD5AA	036	0.96	0.91
FK4DNF	002	1.00	0.88	CK5A/CK5BA	036	0.96	0.90
	003	1.00	0.90	CK5PA	036	0.96	0.90
FV4BNF	002	1.00	0.88	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
	003	1.00	0.90	CC5A/CD5AW	036	0.96	0.92
FX4BNF	030	1.00	1.00	CK5A/CK5BW	036	0.96	0.92
	036	1.00	1.02	CK5PW	036	0.96	0.92
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE				COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CE3AA	036	0.96	0.90	CC5A/CD5AW	036	0.97	0.90
CK3BA	036	0.98	0.89	CK5A/CK5BW	036	0.97	0.90
CK5A/CK5BA	036	0.98	0.89	CK5PW	036	0.97	0.90
CK5A/CK5BT	036	0.95	0.87		—	—	—

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡
CFM	EWB																		
38YZA036-31, 32 Outdoor Section With FX4BNF036 Indoor Section																			
1050	72	40.3	20.0	2.55	38.3	19.3	2.84	36.2	18.5	3.16	34.0	17.7	3.51	31.6	16.8	3.88	28.8	15.8	4.26
	67	37.2	25.6	2.55	35.4	24.9	2.84	33.4	24.1	3.15	31.4	23.2	3.50	29.1	22.3	3.86	26.6	21.4	4.24
	63††	34.6	24.9	2.54	32.9	24.1	2.83	31.1	23.3	3.14	29.1	22.5	3.48	27.0	21.6	3.84	24.7	20.6	4.21
	62	34.2	31.0	2.54	32.5	30.2	2.83	30.8	29.3	3.14	28.9	28.3	3.48	27.0	27.0	3.84	25.1	25.1	4.22
	57	33.1	33.1	2.54	31.8	31.8	2.82	30.3	30.3	3.14	28.7	28.7	3.48	27.0	27.0	3.84	25.1	25.1	4.22
1275	72	41.0	21.1	2.64	38.9	20.4	2.93	36.8	19.6	3.26	34.4	18.8	3.61	31.9	17.9	3.97	29.1	16.9	4.36
	67	37.9	27.8	2.64	36.0	27.0	2.93	34.0	26.2	3.24	31.8	25.4	3.59	29.5	24.5	3.95	26.9	23.4	4.33
	63††	35.4	27.0	2.63	33.6	26.2	2.92	31.6	25.4	3.23	29.6	24.5	3.57	27.4	23.5	3.93	25.0	22.5	4.31
	62	35.1	34.0	2.63	33.4	33.0	2.92	31.7	31.7	3.23	30.0	30.0	3.57	28.1	28.1	3.94	26.0	26.0	4.32
	57	34.8	34.8	2.63	33.3	33.3	2.92	31.7	31.7	3.23	30.0	30.0	3.57	28.1	28.1	3.94	26.0	26.0	4.32
1500	72	41.4	22.2	2.73	39.3	21.5	3.02	37.1	20.7	3.34	34.6	19.8	3.70	32.1	18.9	4.06	29.2	18.0	4.45
	67	38.4	29.9	2.72	36.5	29.1	3.01	34.4	28.3	3.33	32.1	27.4	3.68	29.7	26.4	4.04	27.1	25.2	4.42
	63††	35.8	28.9	2.72	34.0	28.1	3.01	32.0	27.2	3.32	29.9	26.3	3.66	27.6	25.3	4.02	25.2	24.1	4.40
	62	36.0	36.0	2.72	34.4	34.4	3.01	32.7	32.7	3.33	30.9	30.9	3.67	28.9	28.9	4.03	26.7	26.7	4.42
	57	36.0	36.0	2.72	34.4	34.4	3.01	32.7	32.7	3.33	30.9	30.9	3.67	28.9	28.9	4.03	26.7	26.7	4.42

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling			
		Capacity	Power			Capacity	Power		
CC5A/CD5AA	042	1.00	1.00	COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE					
CC5A/CD5AC	048	1.00	0.98	CE3AA	048	1.01	0.92		
CC5A/CD5AW	042	1.00	0.98	CK3BA	042	1.01	0.92		
	048	1.00	0.97		048	1.01	0.91		
CD5AA	048	1.00	0.99	CK5A/CK5BA	042	1.01	0.92		
CE3AA	042	1.00	0.97		048	1.01	0.91		
CF5AA	048	1.01	0.97	CK5A/CK5BE	042	1.01	0.92		
	048	1.01	0.97		042	1.01	0.92		
CK3BA	036	1.00	0.98	CK5A/CK5BT	042	1.01	0.92		
	048	1.01	0.97		048	1.01	0.91		
CK5A/CK5BA	048	1.00	0.97	CK5PA	042	1.01	0.92		
	048	1.00	0.97		048	1.01	0.91		
CK5A/CK5BE	042	0.97	0.94	CK5PE	042	1.01	0.92		
CK5A/CK5BT	042	1.00	0.98		042	1.01	0.92		
CK5A/CK5BW	042	1.00	0.97	CK5PT	042	1.01	0.91		
	048	1.00	0.97		048	1.01	0.91		
COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE									
CK5A/CK5BW	048	1.00	0.97	CD5AA	048	1.01	0.91		
CK5PA	042	1.00	0.98	CE3AA	048	1.01	0.91		
	048	1.00	0.97		042	1.01	0.91		
CK5PE	042	0.97	0.94	CK3BA	048	1.01	0.91		
CK5PT	042	1.00	0.98		042	1.01	0.91		
CK5PW	042	1.00	0.97	CK5A/CK5BA	042	1.01	0.91		
	048	1.00	0.97		048	1.01	0.91		
F(A,B)4BN(F,B,C)	048	1.00	0.99	CK5A/CK5BT	042	1.01	0.91		
FC4CN(F,B)	042	1.00	0.99	CK5A/CK5BW	048	1.01	0.91		
	FE4ANF	002	1.00		0.92	CK5PA	042	1.01	0.91
	003	1.00	0.89		048	1.01	0.91		
FG3AAA	005	1.03	0.87	CK5PT	042	1.01	0.91		
	048	0.99	0.98		048	1.01	0.91		
	FK4DNF	002	1.00		0.92	CK5PW	048	1.01	0.91
FV4BNF	003	1.00	0.89	COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE					
	005	1.03	0.87	CC5A/CD5AW	048	1.01	0.90		
	048	0.99	0.98	CD5AA	048	1.01	0.90		
FX4BNF	002	1.00	0.92	CE3AA	048	1.01	0.91		
	003	1.00	0.89	CK3BA	042	1.01	0.91		
	005	1.03	0.87		048	1.01	0.91		
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE	036	1.00	1.00	CK5A/CK5BA	042	1.01	0.91		
	042	1.01	0.98		042	1.01	0.91		
	048	1.01	0.91		048	1.01	0.91		
CK5A/CK5BE	042	1.01	0.93	CK5A/CK5BT	042	1.01	0.91		
CK5PE	042	1.01	0.93	CK5A/CK5BW	048	1.01	0.91		

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
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**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38YZA036-31, 32 Outdoor Section With FX4BNF036 Indoor Section continued																			
1050	72	40.3	20.0	2.55	38.3	19.3	2.84	36.2	18.5	3.16	34.0	17.7	3.51	31.6	16.8	3.88	28.8	15.8	4.26
	67	37.2	25.6	2.55	35.4	24.9	2.83	33.4	24.1	3.15	31.4	23.2	3.50	29.1	22.3	3.86	26.6	21.4	4.24
	63††	34.6	24.9	2.54	32.9	24.1	2.83	31.1	23.3	3.14	29.1	22.5	3.48	27.0	21.6	3.84	24.7	20.6	4.21
	62	34.2	31.0	2.54	32.5	30.2	2.83	30.8	29.3	3.14	28.9	28.3	3.48	27.0	27.0	3.84	25.1	25.1	4.22
	57	33.1	33.1	2.54	31.8	31.8	2.82	30.3	30.3	3.14	28.7	28.7	3.48	27.0	27.0	3.84	25.1	25.1	4.22
1275	72	41.0	21.1	2.64	38.9	20.4	2.93	36.8	19.6	3.26	34.4	18.8	3.61	31.9	17.9	3.97	29.1	16.9	4.36
	67	37.9	27.8	2.64	36.0	27.0	2.93	34.0	26.2	3.24	31.8	25.4	3.59	29.5	24.5	3.95	26.9	23.4	4.33
	63††	35.4	27.0	2.63	33.6	26.2	2.92	31.6	25.4	3.23	29.6	24.5	3.57	27.4	23.5	3.93	25.0	22.5	4.31
	62	35.1	34.0	2.63	33.4	33.0	2.92	31.7	31.7	3.23	30.0	30.0	3.57	28.1	28.1	3.94	26.0	26.0	4.32
	57	34.8	34.8	2.63	33.3	33.3	2.92	31.7	31.7	3.23	30.0	30.0	3.57	28.1	28.1	3.94	26.0	26.0	4.32
1500	72	41.4	22.2	2.73	39.3	21.5	3.02	37.1	20.7	3.34	34.6	19.8	3.70	32.1	18.9	4.06	29.2	18.0	4.45
	67	38.4	29.9	2.72	36.5	29.1	3.01	34.4	28.3	3.33	32.1	27.4	3.68	29.7	26.4	4.04	27.1	25.2	4.42
	63††	35.8	28.9	2.72	34.0	28.1	3.01	32.0	27.2	3.32	29.9	26.3	3.66	27.6	25.3	4.02	25.2	24.1	4.40
	62	36.0	36.0	2.72	34.4	34.4	3.01	32.7	32.7	3.33	30.9	30.9	3.67	28.9	28.9	4.03	26.7	26.7	4.42
	57	36.0	36.0	2.72	34.4	34.4	3.01	32.7	32.7	3.33	30.9	30.9	3.67	28.9	28.9	4.03	26.7	26.7	4.42

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CK5PA	042	1.01	0.91	CK5A/CK5BA	042	1.01	0.92
	048	1.01	0.91		048	1.00	0.89
CK5PT	042	1.01	0.91	CK5A/CK5BE	042	0.98	0.89
	048	1.01	0.91		CK5PA	042	1.01
CK5PW	048	1.01	0.91	CK5PE		048	1.00
					042	0.98	0.89
COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE				COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AW	042	1.00	0.90	CC5A/CD5AA	042	1.01	0.91
	048	1.01	0.90		CK5A/CK5BA	042	1.01
CD5AA	048	1.01	0.90	048		1.00	0.88
CE3AA	048	1.01	0.91	CK5PA	042	1.01	0.91
CK3BA	042	1.01	0.91		048	1.00	0.88
	048	1.02	0.90	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
CK5A/CK5BA	042	1.01	0.91	CC5A/CD5AA	042	1.01	0.92
	048	1.02	0.90		CD5AA	048	1.01
CK5A/CK5BT	042	1.01	0.91	CK5A/CK5BA		042	1.01
	048	1.02	0.90		048	1.00	0.89
CK5A/CK5BW	048	1.02	0.90	CK5PA	042	1.01	0.92
CK5PA	042	1.01	0.91		048	1.00	0.89
	048	1.02	0.90	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CK5PT	042	1.01	0.91	CC5A/CD5AA	042	1.02	0.90
	048	1.02	0.90		CK5A/CK5BA	042	1.02
CK5PW	048	1.02	0.90	CK5A/CK5BE		042	0.98
					042	1.02	0.90
COILS + 58MVP040-14 VARIABLE SPEED FURNACE				CK5A/CK5BE	042	0.98	0.85
CC5A/CD5AA	042	1.00	0.89				
CD5AA	048	1.00	0.89	CK5PE	042	0.98	0.85
CK5A/CK5BA	042	1.00	0.89	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
	048	1.00	0.89	CC5A/CD5AA	042	1.01	0.88
CK5A/CK5BE	042	0.97	0.86		CD5AA	048	1.00
	CK5A/CK5BW	048	1.02	0.92		CK5A/CK5BA	042
CK5PA		042	1.00	0.89	048		1.00
	048	1.00	0.89	CK5A/CK5BE	042	0.97	0.84
CK5PE	042	0.97	0.86		CK5A/CK5BW	048	1.02
	CK5PW	048	1.02	0.92		CK5PA	042
048					1.00		0.87
COILS + 58MVP060-14 VARIABLE SPEED FURNACE				CK5PE	042	0.97	0.84
CC5A/CD5AA	042	1.01	0.93				
CD5AA	048	1.00	0.89				

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡
CFM	EWB																		
38YZA042-31, 32 Outdoor Section With FX4BNF042 Indoor Section																			
1225	72	48.6	24.2	3.11	46.0	23.2	3.46	43.6	22.4	3.86	40.9	21.4	4.30	38.1	20.4	4.77	34.8	19.2	5.27
	67	45.3	31.3	3.09	42.9	30.3	3.45	40.4	29.3	3.84	38.0	28.3	4.27	35.4	27.3	4.74	32.5	26.1	5.24
	63††	42.4	30.5	3.07	40.1	29.5	3.43	38.0	28.6	3.82	35.8	27.6	4.26	33.4	26.6	4.73	30.8	25.5	5.24
	62	41.8	38.1	3.07	39.7	37.0	3.42	37.7	36.0	3.82	35.6	34.9	4.26	33.4	33.4	4.73	31.2	31.2	5.25
	57	40.6	40.6	3.06	38.9	38.9	3.42	37.2	37.2	3.82	35.4	35.4	4.26	33.5	33.5	4.74	31.3	31.3	5.25
1400	72	49.0	25.1	3.19	46.3	24.1	3.54	43.8	23.2	3.94	41.1	22.3	4.37	38.1	21.2	4.84	34.8	20.0	5.34
	67	45.9	33.1	3.17	43.4	32.1	3.52	40.7	31.0	3.91	38.2	30.1	4.34	35.5	29.0	4.81	32.5	27.8	5.31
	63††	42.9	32.2	3.15	40.5	31.2	3.50	38.4	30.2	3.90	36.1	29.3	4.33	33.6	28.2	4.80	30.8	27.0	5.31
	62	42.5	40.5	3.14	40.3	39.3	3.50	38.3	38.1	3.90	36.3	36.3	4.34	34.2	34.2	4.81	31.9	31.9	5.32
	57	42.0	42.0	3.14	40.0	40.0	3.50	38.3	38.3	3.90	36.4	36.4	4.34	34.3	34.3	4.82	32.0	32.0	5.33
1575	72	49.3	26.0	3.26	46.5	25.0	3.61	43.9	24.1	4.01	41.2	23.1	4.44	38.1	22.0	4.91	35.3	21.0	5.43
	67	46.2	34.8	3.24	43.7	33.8	3.60	40.9	32.7	3.98	38.3	31.7	4.42	35.6	30.6	4.88	33.0	29.5	5.41
	63††	43.2	33.8	3.22	40.8	32.7	3.57	38.6	31.8	3.97	36.2	30.7	4.40	33.7	29.6	4.88	30.9	28.3	5.38
	62	43.1	42.6	3.22	40.9	40.9	3.57	39.1	39.1	3.98	37.1	37.1	4.41	34.8	34.8	4.89	32.3	32.3	5.40
	57	43.0	43.0	3.22	41.0	41.0	3.58	39.2	39.2	3.98	37.1	37.1	4.42	34.9	34.9	4.90	32.4	32.4	5.41

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AC	048	0.98	0.99	CK5A/CK5BW	048	0.99	0.91
CC5A/CD5AW	048	0.99	0.99	CK5PA	048	0.99	0.91
CD5AA	048	0.99	0.99	CK5PT	048	0.99	0.91
CE3AA	048	1.00	0.99	CK5PW	048	0.99	0.91
CK3BA	048	0.99	0.98	COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE			
CK5A/CK5BA	048	0.99	0.98	CC5A/CD5AW	048	0.99	0.90
CK5A/CK5BE	042	0.96	0.96	CD5AA	048	0.99	0.90
CK5A/CK5BW	048	0.99	0.98	CE3AA	048	0.99	0.91
CK5PA	048	0.99	0.98	CK3BA	048	0.99	0.90
CK5PE	042	0.96	0.96	CK5A/CK5BA	048	0.99	0.90
CK5PW	048	0.99	0.98	CK5A/CK5BT	048	0.99	0.90
F(A,B)4BN(F,B,C)	048	0.99	0.99	CK5A/CK5BW	048	0.99	0.90
FC4CN(F,B)	048	1.00	1.00	CK5PA	048	0.99	0.90
FE4ANF	003	1.00	0.93	CK5PT	048	0.99	0.90
	005	1.01	0.90	CK5PW	048	0.99	0.90
FK4DNF	003	1.00	0.92	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
	005	1.01	0.90	CC5A/CD5AW	048	0.99	0.90
FV4BNF	003	1.00	0.93	CD5AA	048	0.99	0.90
	005	1.01	0.90	CE3AA	048	1.00	0.92
FX4BNF	042	1.00	1.00	CK3BA	048	0.99	0.90
COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE				CK5A/CK5BA	048	0.99	0.90
CE3AA	048	0.99	0.92	CK5A/CK5BT	048	0.99	0.90
CK3BA	048	0.99	0.92	CK5A/CK5BW	048	0.99	0.90
CK5A/CK5BA	048	0.99	0.92	CK5PA	048	0.99	0.90
CK5A/CK5BT	048	0.99	0.92	CK5PT	048	0.99	0.90
CK5PA	048	0.99	0.92	CK5PW	048	0.99	0.90
CK5PT	048	0.99	0.92	COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE				CC5A/CD5AW	048	0.99	0.94
CC5A/CD5AW	048	0.99	0.90	CK5A/CK5BW	048	0.99	0.94
CD5AA	048	0.99	0.90	CK5PW	048	0.99	0.94
CE3AA	048	0.99	0.91	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CK3BA	048	0.99	0.91	CD5AA	048	0.99	0.93
CK5A/CK5BA	048	0.99	0.91	CK3BA	048	0.99	0.93
CK5A/CK5BT	048	0.99	0.91	CK5A/CK5BA	048	0.99	0.93
—	—	—	—	CK5PA	048	0.99	0.93

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		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**	Capacity MBtu/h†		Total System kW**	
Total	Sens‡			Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡					
38YZA042-31, 32 Outdoor Section With FX4BNF042 Indoor Section continued																			
1225	72	48.6	24.2	3.11	46.0	23.2	3.46	43.6	22.4	3.86	40.9	21.4	4.30	38.1	20.4	4.77	34.8	19.2	5.27
	67	45.3	31.3	3.09	42.9	30.3	3.45	40.4	29.3	3.84	38.0	28.3	4.27	35.4	27.3	4.74	32.5	26.1	5.24
	63††	42.4	30.5	3.07	40.1	29.5	3.43	38.0	28.6	3.82	35.8	27.6	4.26	33.4	26.6	4.73	30.8	25.5	5.24
	62	41.8	38.1	3.07	39.7	37.0	3.42	37.7	36.0	3.82	35.6	34.9	4.26	33.4	33.4	4.73	31.2	31.2	5.25
	57	40.6	40.6	3.06	38.9	38.9	3.42	37.2	37.2	3.82	35.4	35.4	4.26	33.5	33.5	4.74	31.3	31.3	5.25
1400	72	49.0	25.1	3.19	46.3	24.1	3.54	43.8	23.2	3.94	41.1	22.3	4.37	38.1	21.2	4.84	34.8	20.0	5.34
	67	45.9	33.1	3.17	43.4	32.1	3.52	40.7	31.0	3.91	38.2	30.1	4.34	35.5	29.0	4.81	32.5	27.8	5.31
	63††	42.9	32.2	3.15	40.5	31.2	3.50	38.4	30.2	3.90	36.1	29.3	4.33	33.6	28.2	4.80	30.8	27.0	5.31
	62	42.5	40.5	3.14	40.3	39.3	3.50	38.3	38.1	3.90	36.3	36.3	4.34	34.2	34.2	4.81	31.9	31.9	5.32
	57	42.0	42.0	3.14	40.0	40.0	3.50	38.3	38.3	3.90	36.4	36.4	4.34	34.3	34.3	4.82	32.0	32.0	5.33
1575	72	49.3	26.0	3.26	46.5	25.0	3.61	43.9	24.1	4.01	41.2	23.1	4.44	38.1	22.0	4.91	35.3	21.0	5.43
	67	46.2	34.8	3.24	43.7	33.8	3.60	40.9	32.7	3.98	38.3	31.7	4.42	35.6	30.6	4.88	33.0	29.5	5.41
	63††	43.2	33.8	3.22	40.8	32.7	3.57	38.6	31.8	3.97	36.2	30.7	4.40	33.7	29.6	4.88	30.9	28.3	5.38
	62	43.1	42.6	3.22	40.9	40.9	3.57	39.1	39.1	3.98	37.1	37.1	4.41	34.8	34.8	4.89	32.3	32.3	5.40
	57	43.0	43.0	3.22	41.0	41.0	3.58	39.2	39.2	3.98	37.1	37.1	4.42	34.9	34.9	4.90	32.4	32.4	5.41

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
COILS + 58MVP080-20 VARIABLE SPEED FURNACE				CK5A/CK5BA	048	0.99	0.91
CD5AA	048	0.99	0.94	CK5A/CK5BW	048	0.99	0.94
CK3BA	048	0.99	0.94	CK5PA	048	0.99	0.91
CK5A/CK5BA	048	0.99	0.94	CK5PW	048	0.99	0.94
CK5PA	048	0.99	0.94	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
COILS + 58MVP100-20 VARIABLE SPEED FURNACE				CC5A/CD5AW	048	0.99	0.92
CD5AA	048	0.99	0.91	CK5A/CK5BW	048	0.99	0.92
CK3BA	048	0.99	0.91	CK5PW	048	0.99	0.92

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtu/h†	Total System kW**	Capacity MBtu/h†	Total System kW**	Capacity MBtu/h†	Total System kW**	Capacity MBtu/h†	Total System kW**	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‡
CFM	EWB	38YZA048-31, 32 Outdoor Section With FX4BNF048 Indoor Section																	
1400	72	56.2	28.0	3.40	53.8	27.1	3.77	51.2	26.2	4.18	48.5	25.2	4.64	45.6	24.2	5.15	42.5	23.1	5.71
	67	52.0	36.1	3.36	49.8	35.2	3.73	47.4	34.2	4.14	44.9	33.2	4.60	41.9	32.0	5.08	39.0	30.9	5.64
	63††	48.6	35.2	3.33	46.5	34.2	3.69	44.2	33.2	4.11	41.6	32.1	4.55	39.1	31.0	5.05	36.4	29.9	5.62
	62	48.0	43.9	3.32	45.8	42.8	3.68	43.8	41.8	4.11	41.5	40.6	4.56	39.0	39.0	5.06	36.7	36.7	5.61
	57	46.7	46.7	3.31	44.9	44.9	3.68	43.0	43.0	4.09	41.1	41.1	4.55	39.1	39.1	5.06	36.8	36.8	5.63
1600	72	57.2	29.3	3.50	54.6	28.4	3.87	52.0	27.4	4.29	48.8	26.3	4.72	45.8	25.3	5.23	42.6	24.1	5.78
	67	53.0	38.4	3.46	50.3	37.3	3.82	47.8	36.3	4.23	45.3	35.3	4.68	42.5	34.2	5.19	39.2	32.9	5.72
	63††	49.5	37.3	3.42	47.0	36.2	3.78	44.7	35.2	4.19	42.3	34.2	4.65	39.4	32.9	5.13	36.6	31.7	5.69
	62	49.1	47.0	3.42	46.9	45.8	3.79	44.6	44.4	4.19	42.4	42.4	4.65	40.1	40.1	5.14	37.5	37.5	5.69
	57	48.3	48.3	3.41	46.3	46.3	3.77	44.6	44.6	4.20	42.3	42.3	4.64	40.1	40.1	5.15	37.7	37.7	5.71
1800	72	57.5	30.3	3.58	54.8	29.3	3.95	52.1	28.4	4.37	48.9	27.3	4.81	45.9	26.2	5.31	42.5	25.1	5.86
	67	53.4	40.4	3.54	51.0	39.4	3.91	48.1	38.3	4.31	45.5	37.3	4.77	42.7	36.1	5.27	39.7	35.0	5.83
	63††	49.9	39.1	3.51	47.7	38.2	3.88	45.0	37.0	4.28	42.5	35.9	4.73	39.9	34.9	5.24	37.0	33.6	5.81
	62	49.8	49.4	3.51	47.6	47.6	3.87	45.5	45.5	4.28	43.3	43.3	4.74	41.2	41.2	5.26	38.5	38.5	5.81
	57	49.8	49.8	3.51	47.7	47.7	3.88	45.6	45.6	4.29	43.5	43.5	4.75	40.9	40.9	5.24	38.4	38.4	5.79

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.99	1.00	CK5A/CK5BT	060	0.99	0.92
CC5A/CD5AW	060	0.99	0.98	CK5A/CK5BX	060	1.01	0.93
CE3AA	060	1.01	1.01	CK5PA	060	0.99	0.92
CK3BA	060	1.00	1.00	CK5PT	060	0.99	0.92
CK5A/CK5BA	060	1.00	1.00	CK5PX	060	1.01	0.93
CK5A/CK5BX	060	1.01	1.00	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
CK5PA	060	1.00	1.00	CC5A/CD5AW	060	0.99	0.91
CK5PX	060	1.01	1.00	CE3AA	060	1.00	0.92
F(A,B)4BN(F,B,C)	060	0.98	1.03	CK3BA	060	0.99	0.91
FB4BNB	070	1.02	1.01	CK5A/CK5BA	060	0.99	0.91
FC4CN(F,B)	060	0.99	1.04	CK5A/CK5BT	060	0.99	0.91
FC4CNB	070	1.02	1.01	CK5A/CK5BX	060	1.01	0.92
FE4ANB	006	1.03	0.92	CK5PA	060	0.99	0.91
FE4ANF	005	1.01	0.94	CK5PT	060	0.99	0.91
FG3AAA	060	0.98	0.98	CK5PX	060	1.01	0.92
FK4DNB	006	1.03	0.92	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
FK4DNF	005	1.01	0.94	CC5A/CD5AA	060	0.98	0.96
FV4BNB	006	1.03	0.92	CC5A/CD5AW	060	0.99	0.96
FV4BNF	005	1.01	0.94	CK3BA	060	0.98	0.96
FX4BNB	060	1.01	1.00	CK5A/CK5BA	060	0.98	0.96
FX4BNF	048	1.00	1.00	CK5A/CK5BX	060	0.99	0.96
COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE				CK5PA	060	0.98	0.96
CE3AA	060	0.99	0.93	CK5PX	060	0.99	0.96
COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE				COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CD5PX	060	1.00	0.92	CC5A/CD5AA	060	0.99	0.94
CE3AA	060	1.00	0.93	CC5A/CD5AW	060	1.00	0.94
CK3BA	060	0.99	0.92	CK3BA	060	0.99	0.94
CK5A/CK5BA	060	0.99	0.92	CK5A/CK5BA	060	0.99	0.94
CK5A/CK5BT	060	0.99	0.92	CK5A/CK5BX	060	1.00	0.94
CK5A/CK5BX	060	1.01	0.92	CK5PA	060	0.99	0.94
CK5PA	060	0.99	0.92	CK5PX	060	1.00	0.94
CK5PT	060	0.99	0.92	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CK5PX	060	1.01	0.92	CC5A/CD5AA	060	0.99	0.94
COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE				CC5A/CD5AW	060	1.00	0.92
CC5A/CD5AW	060	0.99	0.92	CK3BA	060	0.99	0.94
CE3AA	060	1.00	0.93	CK5A/CK5BA	060	0.99	0.94
CK3BA	060	0.99	0.92	CK5A/CK5BX	060	1.00	0.92
CK5A/CK5BA	060	0.99	0.92	CK5PA	060	0.99	0.94
—	—	—	—	CK5PX	060	1.00	0.92

See notes on pg. 25.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡	Capacity MBtu/h†	Total System kW**	Sens‡
CFM	EWB																		
38YZA060-31, 32 Outdoor Section With FX4BNB060 Indoor Section																			
1750	72	69.2	34.7	4.68	66.0	33.5	5.17	63.2	32.5	5.74	60.2	31.4	6.37	56.5	30.1	7.04	52.3	28.6	7.77
	67	64.9	45.1	4.63	61.9	43.9	5.13	58.8	42.6	5.68	55.7	41.4	6.29	52.2	40.0	6.95	48.4	38.5	7.68
	63††	61.1	44.2	4.60	58.0	42.8	5.08	55.5	41.7	5.65	52.5	40.4	6.26	49.3	39.0	6.93	45.6	37.4	7.66
	62	60.3	55.1	4.59	57.3	53.6	5.07	54.6	52.3	5.62	51.7	50.8	6.23	48.8	48.8	6.90	45.8	45.8	7.64
	57	58.7	58.7	4.57	56.2	56.2	5.06	54.0	54.0	5.61	51.5	51.5	6.23	48.9	48.9	6.91	45.9	45.9	7.65
2000	72	69.9	36.1	4.79	66.5	34.9	5.29	63.6	33.9	5.85	60.5	32.8	6.48	56.6	31.4	7.14	52.3	29.9	7.87
	67	65.6	47.8	4.75	62.5	46.6	5.24	59.4	45.3	5.79	56.0	44.0	6.40	52.4	42.6	7.06	49.1	41.3	7.82
	63††	61.8	46.7	4.71	59.0	45.4	5.20	56.0	44.1	5.75	52.9	42.8	6.36	49.5	41.4	7.03	45.8	39.7	7.76
	62	61.3	58.8	4.70	58.2	57.1	5.19	55.9	55.7	5.76	53.2	53.2	6.37	50.4	50.4	7.06	47.3	47.3	7.80
	57	60.6	60.6	4.70	57.9	57.9	5.18	55.5	55.5	5.74	52.9	52.9	6.35	50.1	50.1	7.03	46.9	46.9	7.77
2250	72	70.3	37.4	4.90	67.3	36.4	5.41	63.8	35.1	5.96	60.6	34.1	6.58	56.6	32.6	7.24	52.2	31.1	7.96
	67	66.0	50.3	4.86	62.9	49.1	5.35	59.7	47.8	5.90	56.2	46.4	6.50	53.2	45.2	7.19	49.7	43.8	7.96
	63††	62.3	49.0	4.82	59.8	47.9	5.33	56.3	46.4	5.86	53.1	45.1	6.47	49.7	43.5	7.13	45.8	41.9	7.86
	62	62.2	61.8	4.82	59.2	59.2	5.30	57.0	57.0	5.87	54.3	54.3	6.49	51.3	51.3	7.17	48.5	48.5	7.95
	57	62.1	62.1	4.82	59.3	59.3	5.31	56.7	56.7	5.86	54.0	54.0	6.47	51.0	51.0	7.15	48.2	48.2	7.92

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AW	060	0.97	0.99	FK4DNB	006	1.02	0.97
CK5A/CK5BX	060	0.99	0.99	FV4ANB	006	1.01	0.96
CK5PX	060	0.99	0.99	FV4BNB	006	1.01	0.96
FB4ANB	070	1.00	1.00	FX4ANB	060	1.00	1.00
FB4BNB	070	1.00	1.00	FX4BNB	060	1.00	1.00
FC4BNB	070	1.00	1.00	COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE			
FC4CNB	070	1.00	1.00	CD5PX	060	0.99	0.96
FE4ANB	006	1.01	0.96	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
FK4CNB	006	1.02	0.97	CC5A/CD5AW	060	0.98	0.95

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

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-94. If additional tubing length 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 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/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.

EWB—Entering Wet Bulb

Heat pump heating performance

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr
		Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†
38YZA018-31, 32 Outdoor Section With FX4BNF018 Indoor Section																									
65	525	6.79	6.25	1.28	8.59	7.90	1.33	10.4	9.47	1.36	12.4	11.0	1.40	14.6	13.3	1.45	17.2	17.2	1.52	20.1	20.1	1.60	23.5	23.5	1.71
	600	6.92	6.36	1.29	8.71	8.01	1.33	10.5	9.57	1.35	12.5	11.1	1.38	14.8	13.5	1.42	17.4	17.4	1.48	20.3	20.3	1.55	23.8	23.8	1.66
	675	7.03	6.47	1.30	8.81	8.10	1.33	10.6	9.68	1.35	12.6	11.2	1.38	14.9	13.6	1.41	17.6	17.6	1.46	20.5	20.5	1.53	24.1	24.1	1.64
70	525	6.58	6.06	1.36	8.43	7.74	1.41	10.3	9.37	1.46	12.2	10.9	1.50	14.5	13.2	1.55	17.0	17.0	1.62	19.8	19.8	1.70	23.2	23.2	1.82
	600	6.71	6.17	1.37	8.56	7.87	1.41	10.4	9.48	1.45	12.4	11.0	1.48	14.6	13.3	1.52	17.2	17.2	1.58	20.1	20.1	1.65	23.5	23.5	1.76
	675	6.83	6.28	1.38	8.68	7.97	1.42	10.5	9.58	1.45	12.5	11.1	1.47	14.8	13.4	1.51	17.4	17.4	1.56	20.3	20.3	1.63	23.7	23.7	1.73
75	525	6.35	5.84	1.45	8.24	7.57	1.51	10.2	9.26	1.56	12.1	10.8	1.61	14.3	13.0	1.66	16.8	16.8	1.73	19.6	19.6	1.81	22.9	22.9	1.93
	600	6.48	5.96	1.46	8.38	7.70	1.50	10.3	9.36	1.55	12.3	10.9	1.59	14.5	13.2	1.63	17.0	17.0	1.69	19.8	19.8	1.76	23.2	23.2	1.87
	675	6.60	6.07	1.47	8.50	7.81	1.51	10.4	9.47	1.55	12.4	11.0	1.57	14.6	13.3	1.61	17.2	17.2	1.66	20.0	20.0	1.73	23.4	23.4	1.84

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	024	0.96	1.03	COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE			
CC5A/CD5AW	024	0.93	1.03	CK3BA	024	0.98	0.94
CE3AA	024	0.97	0.90	CK5A/CK5BA	024	0.98	0.94
CF5AA	024	0.95	1.00	CK5A/CK5BW	024	0.98	0.94
CK3BA	024	1.00	0.99	CK5PA	024	0.98	0.94
CK5A/CK5BA	024	0.99	0.99	CK5PW	024	0.98	0.94
CK5A/CK5BW	024	0.99	0.99	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CK5PA	024	0.99	0.99	CC5A/CD5AA	024	0.92	0.95
CK5PW	024	0.99	0.99	CC5A/CD5AW	024	0.94	0.95
F(A,B)4BN(F,C)	024	0.99	1.00	CE3AA	024	0.96	0.95
FC4CNF	024	0.99	0.99	CK3BA	024	0.98	0.91
FE4ANF	002	0.98	1.02	CK5A/CK5BA	024	0.98	0.91
FF1DNA	024	0.99	1.01	CK5A/CK5BW	024	0.98	0.91
FG3AAA	024	0.99	1.06	CK5PA	024	0.98	0.91
FK4DNF	002	0.98	1.02	CK5PW	024	0.98	0.91
FV4BNF	002	0.98	1.02	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
FX4BNF	018	1.00	1.00	CC5A/CD5AW	024	0.95	0.95
	—	—	—	CE3AA	024	0.96	0.95

See notes on pg. 34.

Heat pump heating performance

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr
EDB	CFM	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†
38YZA024-31, 32 Outdoor Section With FX4BNF030 Indoor Section																									
65	700	10.8	9.91	1.85	13.1	12.0	1.88	15.4	14.0	1.91	17.8	15.8	1.94	20.7	18.8	1.99	23.9	23.9	2.06	27.8	27.8	2.15	31.3	31.3	2.21
	825	11.0	10.10	1.86	13.3	12.2	1.89	15.6	14.2	1.91	18.1	16.1	1.93	21.0	19.1	1.97	24.4	24.4	2.02	28.2	28.2	2.09	31.3	31.3	2.13
	950	11.2	10.30	1.89	13.5	12.4	1.90	15.8	14.4	1.92	18.3	16.3	1.93	21.3	19.4	1.96	24.7	24.7	2.01	28.1	28.1	2.05	31.1	31.1	2.09
70	700	10.5	9.65	1.93	12.9	11.8	1.97	15.2	13.8	2.01	17.6	15.6	2.04	20.4	18.5	2.09	23.6	23.6	2.16	27.3	27.3	2.26	31.2	31.2	2.34
	825	10.7	9.87	1.95	13.1	12.0	1.98	15.4	14.0	2.00	17.9	15.9	2.02	20.7	18.9	2.06	24.0	24.0	2.12	27.8	27.8	2.19	31.2	31.2	2.25
	950	10.9	10.10	1.97	13.3	12.2	1.99	15.6	14.2	2.01	18.1	16.1	2.02	21.0	19.1	2.06	24.3	24.3	2.11	28.0	28.0	2.16	31.1	31.1	2.20
75	700	10.2	9.37	2.02	12.6	11.6	2.06	15.0	13.7	2.11	17.4	15.4	2.14	20.1	18.3	2.19	23.2	23.2	2.26	26.9	26.9	2.36	30.9	30.9	2.46
	825	10.4	9.58	2.04	12.8	11.8	2.07	15.2	13.9	2.10	17.6	15.7	2.12	20.4	18.6	2.16	23.6	23.6	2.22	27.4	27.4	2.31	31.0	31.0	2.36
	950	10.6	9.78	2.06	13.1	12.0	2.08	15.4	14.1	2.10	17.9	15.9	2.12	20.7	18.8	2.15	24.0	24.0	2.21	27.7	27.7	2.27	31.1	31.1	2.32

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	0.93	0.98	CK3BA	036	0.96	0.95
CC5A/CD5AW	036	0.93	0.98	CK5A/CK5BA	036	0.96	0.95
CE3AA	036	0.98	1.03	CK5A/CK5BT	036	0.96	0.95
CF5AA	036	0.94	0.99	CK5PA	036	0.96	0.95
CK3BA	036	0.98	0.98	CK5PT	036	0.96	0.95
CK5A/CK5BA	036	0.98	0.98	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CK5A/CK5BT	036	0.98	0.98	CC5A/CD5AA	036	0.98	0.94
CK5A/CK5BW	036	0.98	0.98	CK3BA	036	0.98	0.94
CK5PA	036	0.98	0.98	CK5A/CK5BA	036	0.98	0.94
CK5PT	036	0.98	0.98	CK5A/CK5BE	042	0.94	0.97
CK5PW	036	0.98	0.98	CK5A/CK5BW	036	0.98	0.94
F(A,B)4BN(F,C)	030	0.99	1.03	CK5PA	036	0.98	0.94
FC4CNF	030	0.99	1.03	CK5PW	036	0.98	0.94
FE4ANF	002	0.98	0.94	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
	003	0.98	0.94	CC5A/CD5AW	036	0.98	0.93
FG3AAA	036	0.98	1.02	CK5A/CK5BW	036	0.98	0.93
FK4DNF	001	0.97	0.97	CK5PW	036	0.98	0.93
	002	0.97	0.93	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
	003	0.97	0.93	CC5A/CD5AW	036	0.98	0.94
FV4BNF	002	0.98	0.94	CK5A/CK5BW	036	1.00	0.95
	003	0.98	0.94	CK5PW	036	1.00	0.95
FX4BNF	030	1.00	1.00	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE				CC5A/CD5AW	036	1.00	0.93
CE3AA	036	0.97	1.00	CK5A/CK5BW	036	1.00	0.93
	—	—	—	CK5PW	036	1.00	0.93

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr	Capacity (MBtuh)		Total Pwr
		Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†
38YZA030-31, 32 Outdoor Section With FX4BNF030 Indoor Section																									
65	900	12.1	11.1	2.02	14.9	13.7	2.06	17.9	16.4	2.10	21.4	19.0	2.15	25.4	23.1	2.22	30.0	30.0	2.30	35.4	35.4	2.43	41.2	41.2	2.54
	1050	12.3	11.4	2.05	15.2	13.9	2.09	18.2	16.6	2.12	21.7	19.3	2.16	25.8	23.4	2.21	30.4	30.4	2.29	36.0	36.0	2.41	41.2	41.2	2.49
	1200	12.6	11.6	2.09	15.4	14.2	2.12	18.5	16.8	2.14	22.0	19.5	2.18	26.1	23.7	2.23	30.8	30.8	2.30	36.4	36.4	2.40	41.2	41.2	2.46
70	900	11.8	10.9	2.11	14.7	13.5	2.16	17.7	16.2	2.21	21.1	18.8	2.26	25.0	22.8	2.33	29.5	29.5	2.42	34.9	34.9	2.54	40.8	40.8	2.68
	1050	12.1	11.1	2.14	15.0	13.8	2.18	18.0	16.4	2.22	21.4	19.0	2.26	25.4	23.1	2.32	30.0	30.0	2.40	35.5	35.5	2.52	41.1	41.1	2.62
	1200	12.3	11.3	2.18	15.2	14.0	2.22	18.2	16.6	2.24	21.7	19.3	2.28	25.7	23.4	2.33	30.4	30.4	2.41	35.9	35.9	2.52	41.3	41.3	2.60
75	900	11.5	10.6	2.21	14.5	13.3	2.26	17.5	16.0	2.32	20.9	18.5	2.37	24.7	22.5	2.44	29.2	29.2	2.54	34.3	34.3	2.66	40.3	40.3	2.81
	1050	11.8	10.8	2.24	14.8	13.6	2.29	17.8	16.2	2.33	21.2	18.8	2.37	25.1	22.8	2.43	29.6	29.6	2.52	34.9	34.9	2.64	40.8	40.8	2.76
	1200	12.0	11.0	2.28	15.0	13.8	2.32	18.0	16.4	2.35	21.5	19.1	2.39	25.4	23.1	2.44	30.0	30.0	2.52	35.4	35.4	2.63	41.1	41.1	2.74

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	036	1.00	1.02	CK5A/CK5BT	036	0.96	0.95
CC5A/CD5AW	036	1.00	1.02	CK5PA	036	0.96	0.95
CE3AA	036	0.99	1.03	CK5PT	036	0.95	0.95
CF5AA	036	1.00	1.02	COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE			
CK3BA	036	1.00	1.00	CE3AA	036	0.94	0.97
CK5A/CK5BA	036	1.00	1.00	CK3BA	036	0.95	0.94
CK5A/CK5BT	036	1.00	1.00	CK5A/CK5BA	036	0.95	0.94
CK5A/CK5BW	036	1.00	1.00	CK5A/CK5BW	036	0.95	0.94
CK5PA	036	1.00	1.00	CK5PA	036	0.95	0.94
CK5PT	036	1.00	1.00	CK5PT	036	0.96	0.94
CK5PW	036	1.00	1.00	CK5PW	036	0.95	0.94
F(A,B)4BN(F,C)	036	1.01	1.07	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
FC4CNF	036	1.01	1.04	CC5A/CD5AA	036	0.99	0.95
FE4ANF	002	0.97	0.90	CK5A/CK5BA	036	0.99	0.95
	003	0.97	0.93	CK5PA	036	0.99	0.95
FG3AAA	036	0.99	1.04	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
FK4DNF	002	0.97	0.90	CC5A/CD5AA	036	0.99	0.95
	003	0.97	0.93	CK5A/CK5BA	036	0.99	0.95
FV4BNF	002	0.97	0.90	CK5PA	036	0.99	0.95
	003	0.97	0.93	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
FX4BNF	030	1.00	1.00	CC5A/CD5AW	036	0.99	0.95
	036	0.97	0.97	CK5A/CK5BW	036	0.99	0.95
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE				CK5PW	036	0.99	0.95
CE3AA	036	0.95	0.99	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CK3BA	036	0.95	0.95	CC5A/CD5AW	036	0.98	0.92
CK5A/CK5BA	036	0.96	0.95	CK5A/CK5BW	036	0.98	0.92
	—	—	—	CK5PW	036	0.98	0.92

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																								
		-3			7			17			27			37			47			57			67			
		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)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†	
EDB	CFM	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	Total	Int*	
38YZA036-31, 32 Outdoor Section With FX4BNF036 Indoor Section																										
65	1050	15.3	14.1	2.31	19.0	17.5	2.43	22.8	20.8	2.55	26.9	23.9	2.68	31.5	28.6	2.84	36.8	36.8	3.02	43.0	43.0	3.25	50.3	50.3	3.55	
	1275	15.8	14.5	2.36	19.5	17.9	2.46	23.3	21.2	2.57	27.4	24.3	2.69	32.1	29.2	2.82	37.6	37.6	2.99	44.0	44.0	3.20	51.6	51.6	3.48	
	1500	16.2	14.9	2.42	19.9	18.3	2.51	23.7	21.6	2.61	27.8	24.7	2.72	32.6	29.7	2.84	38.2	38.2	3.00	44.8	44.8	3.20	52.4	52.4	3.47	
70	1050	14.8	13.7	2.42	18.6	17.1	2.54	22.5	20.6	2.68	26.6	23.6	2.82	31.1	28.3	2.98	36.2	36.2	3.17	42.4	42.4	3.41	49.5	49.5	3.72	
	1275	15.3	14.1	2.47	19.1	17.5	2.57	23.0	21.0	2.70	27.1	24.0	2.82	31.7	28.8	2.96	37.0	37.0	3.13	43.3	43.3	3.35	50.7	50.7	3.64	
	1500	15.7	14.4	2.52	19.5	17.9	2.62	23.4	21.3	2.74	27.5	24.4	2.85	32.2	29.3	2.98	37.6	37.6	3.14	44.1	44.1	3.35	51.6	51.6	3.62	
75	1050	14.4	13.2	2.53	18.1	16.7	2.66	22.2	20.2	2.81	26.2	23.3	2.96	30.7	27.9	3.13	35.7	35.7	3.33	41.7	41.7	3.58	48.7	48.7	3.90	
	1275	14.8	13.6	2.58	18.7	17.1	2.69	22.7	20.7	2.83	26.7	23.7	2.96	31.3	28.5	3.11	36.5	36.5	3.28	42.6	42.6	3.51	49.8	49.8	3.81	
	1500	15.2	14.0	2.63	19.1	17.5	2.74	23.1	21.1	2.87	27.2	24.1	2.99	31.8	28.9	3.12	37.1	37.1	3.29	43.4	43.4	3.50	50.7	50.7	3.79	

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	042	0.99	1.01	CK3BA	042	0.97	0.94
CC5A/CD5AC	048	0.98	1.02		048	0.97	0.92
CC5A/CD5AW	042	0.99	1.01	CK5A/CK5BA	042	0.97	0.94
	048	0.98	0.98		048	0.97	0.92
CD5AA	048	0.99	0.99	CK5A/CK5BE	042	0.98	0.93
CE3AA	042	0.99	0.98	CK5A/CK5BT	042	0.97	0.94
	048	0.99	0.97		048	0.97	0.92
CF5AA	036	0.98	1.00	CK5PA	042	0.97	0.94
	048	0.99	0.99		048	0.97	0.92
CK3BA	048	0.99	0.97	CK5PE	042	0.97	0.92
CK5A/CK5BA	042	0.99	0.98	CK5PT	042	0.97	0.94
	048	0.99	0.97		048	0.97	0.92
CK5A/CK5BE	042	0.98	1.02	COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE			
CK5A/CK5BT	042	0.99	0.98	CD5AA	048	0.95	0.91
	048	0.99	0.97	CE3AA	048	0.97	0.93
CK5A/CK5BW	048	0.99	0.97	CK3BA	042	0.97	0.93
CK5PA	042	0.99	0.98		048	0.97	0.91
	048	0.99	0.97	CK5A/CK5BA	042	0.97	0.93
CK5PE	042	0.98	1.02		048	0.97	0.91
CK5PT	042	0.99	0.98	CK5A/CK5BT	042	0.97	0.93
	048	0.99	0.97		048	0.97	0.91
CK5PW	048	0.99	0.97	CK5A/CK5BW	048	0.97	0.91
F(A,B)4BN(F,B,C)	042	0.99	1.00	CK5PA	042	0.97	0.93
FC4CN(F,B)	042	0.99	1.00		048	0.97	0.92
FE4ANF	002	0.97	0.93	CK5PT	042	0.97	0.93
	003	0.95	0.94		048	0.97	0.91
	005	0.95	0.86		CK5PW	048	0.97
FG3AAA	048	0.99	0.98	COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE			
FK4DNF	002	0.97	0.93	CC5A/CD5AW	048	0.95	0.91
	003	0.95	0.94	CD5AA	048	0.95	0.91
	005	0.95	0.86	CE3AA	048	0.97	0.93
FV4BNF	002	0.97	0.93	CK3BA	042	0.97	0.93
	003	0.95	0.94		048	0.97	0.92
	005	0.95	0.86	CK5A/CK5BA	042	0.97	0.93
FX4BNF	036	1.00	1.00		048	0.97	0.92
	042	0.99	0.97	CK5A/CK5BT	042	0.97	0.93
COILS + 58CV(A,X)070-12 VARIABLE SPEED FURNACE				048	0.97	0.92	
CK5A/CK5BE	042	0.98	0.94	CK5A/CK5BW	048	0.97	0.92
CK5PE	042	0.98	0.94		CK5PA	042	0.97
COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE				048		0.97	0.92
CE3AA	048	0.97	0.94	CK5PT	042	0.97	0.93
					048	0.97	0.92

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
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)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†
		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*	
38YZA036-31, 32 Outdoor Section With FX4BNF036 Indoor Section continued																									
65	1050	15.3	14.1	2.31	19.0	17.5	2.43	22.8	20.8	2.55	26.9	23.9	2.68	31.5	28.6	2.84	36.8	36.8	3.02	43.0	43.0	3.25	50.3	50.3	3.55
	1275	15.8	14.5	2.36	19.5	17.9	2.46	23.3	21.2	2.57	27.4	24.3	2.69	32.1	29.2	2.82	37.6	37.6	2.99	44.0	44.0	3.20	51.6	51.6	3.48
	1500	16.2	14.9	2.42	19.9	18.3	2.51	23.7	21.6	2.61	27.8	24.7	2.72	32.6	29.7	2.84	38.2	38.2	3.00	44.8	44.8	3.20	52.4	52.4	3.47
70	1050	14.8	13.7	2.42	18.6	17.1	2.54	22.5	20.6	2.68	26.6	23.6	2.82	31.1	28.3	2.98	36.2	36.2	3.17	42.4	42.4	3.41	49.5	49.5	3.72
	1275	15.3	14.1	2.47	19.1	17.5	2.57	23.0	21.0	2.70	27.1	24.0	2.82	31.7	28.8	2.96	37.0	37.0	3.13	43.3	43.3	3.35	50.7	50.7	3.64
	1500	15.7	14.4	2.52	19.5	17.9	2.62	23.4	21.3	2.74	27.5	24.4	2.85	32.2	29.3	2.98	37.6	37.6	3.14	44.1	44.1	3.35	51.6	51.6	3.62
75	1050	14.4	13.2	2.53	18.1	16.7	2.66	22.2	20.2	2.81	26.2	23.3	2.96	30.7	27.9	3.13	35.7	35.7	3.33	41.7	41.7	3.58	48.7	48.7	3.90
	1275	14.8	13.6	2.58	18.7	17.1	2.69	22.7	20.7	2.83	26.7	23.7	2.96	31.3	28.5	3.11	36.5	36.5	3.28	42.6	42.6	3.51	49.8	49.8	3.81
	1500	15.2	14.0	2.63	19.1	17.5	2.74	23.1	21.1	2.87	27.2	24.1	2.99	31.8	28.9	3.12	37.1	37.1	3.29	43.4	43.4	3.50	50.7	50.7	3.79

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CK5PW	048	0.97	0.92	CK5A/CK5BE	042	0.99	1.01
COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE				CK5PA			
CC5A/CD5AW	042	0.96	0.95				
	048	0.95	0.91				
CD5AA	048	0.95	0.90	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CE3AA	048	0.97	0.93	CC5A/CD5AA	042	0.99	0.97
CK3BA	042	0.97	0.93	CK5A/CK5BA	042	0.99	0.97
	048	0.97	0.91		048	0.97	0.96
CK5A/CK5BA	042	0.97	0.93	CK5PA	042	0.99	0.97
	048	0.97	0.91		048	0.97	0.96
CK5A/CK5BT	042	0.97	0.93	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
	048	0.97	0.91	CC5A/CD5AA	042	0.99	0.98
CK5A/CK5BW	048	0.97	0.91	CD5AA	048	1.00	0.97
CK5PA	042	0.97	0.93	CK5A/CK5BA	042	0.99	0.98
	048	0.97	0.91		048	0.97	0.96
CK5PT	042	0.97	0.92	CK5PA	042	0.99	0.98
	048	0.97	0.91		048	0.97	0.96
CK5PW	048	0.97	0.91	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
COILS + 58MVP040-14 VARIABLE SPEED FURNACE				CC5A/CD5AA	042	0.98	0.95
CC5A/CD5AA	042	0.97	0.97	CK5A/CK5BA	042	0.98	0.95
CD5AA	048	0.97	0.96	CK5A/CK5BE	042	0.96	0.99
CK5A/CK5BA	042	0.97	0.97	CK5PA	042	0.98	0.95
	048	0.97	0.96	CK5PE	042	0.96	0.99
CK5A/CK5BE	042	0.96	1.00	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CK5A/CK5BW	048	0.99	0.96	CC5A/CD5AA	042	0.96	0.95
	CK5PA	042	0.97	0.97	CD5AA	048	0.97
		048	0.97	0.96	CK5A/CK5BA	042	0.96
CK5PE	042	0.96	1.00	048		0.97	0.94
CK5PW	048	0.99	0.96	CK5A/CK5BE	042	0.96	0.99
COILS + 58MVP060-14 VARIABLE SPEED FURNACE				CK5A/CK5BW	048	0.99	0.93
CC5A/CD5AA	042	0.99	0.98	CK5PA	042	0.96	0.95
CD5AA	048	0.97	0.96		048	0.97	0.94
CK5A/CK5BA	042	0.99	0.98	CK5PE	042	0.96	0.99
	048	0.97	0.96	CK5PW	048	0.99	0.93

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power
EDB	CFM	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†
38YZA042-31, 32 Outdoor Section With FX4BNF042 Indoor Section																									
65	1225	18.7	17.2	2.86	22.6	20.8	2.96	26.5	24.2	3.05	30.8	27.4	3.15	35.8	32.6	3.27	41.5	41.5	3.44	48.2	48.2	3.66	55.3	55.3	3.89
	1400	19.0	17.5	2.90	22.9	21.1	2.98	26.9	24.5	3.06	31.2	27.7	3.14	36.3	33.0	3.25	42.1	42.1	3.40	49.0	49.0	3.61	55.5	55.5	3.78
	1575	19.3	17.8	2.94	23.2	21.3	3.02	27.2	24.8	3.08	31.6	28.0	3.16	36.7	33.4	3.26	42.6	42.6	3.39	49.5	49.5	3.60	55.7	55.7	3.74
70	1225	18.2	16.7	3.00	22.3	20.5	3.11	26.3	23.9	3.21	30.4	27.0	3.32	35.3	32.2	3.45	40.9	40.9	3.62	47.5	47.5	3.85	54.7	54.7	4.11
	1400	18.6	17.1	3.04	22.6	20.8	3.13	26.6	24.3	3.22	30.8	27.4	3.31	35.8	32.6	3.43	41.5	41.5	3.58	48.2	48.2	3.79	55.3	55.3	4.02
	1575	18.9	17.4	3.08	23.0	21.1	3.17	26.9	24.5	3.24	31.2	27.7	3.32	36.2	33.0	3.43	42.0	42.0	3.57	48.8	48.8	3.78	55.1	55.1	3.93
75	1225	17.7	16.3	3.14	21.9	20.1	3.26	26.0	23.7	3.38	30.1	26.7	3.49	34.9	31.7	3.63	40.4	40.4	3.81	46.8	46.8	4.05	54.3	54.3	4.38
	1400	18.0	16.6	3.18	22.2	20.4	3.28	26.3	24.0	3.39	30.5	27.1	3.48	35.3	32.2	3.61	40.9	40.9	3.76	47.5	47.5	3.99	54.6	54.6	4.23
	1575	18.4	16.9	3.22	22.6	20.7	3.32	26.6	24.3	3.41	30.8	27.4	3.49	35.8	32.5	3.60	41.4	41.4	3.75	48.1	48.1	3.96	54.8	54.8	4.15

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AC	048	0.95	1.06	CK5PW	048	0.98	0.97
CC5A/CD5AW	048	0.98	1.01	COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE			
CD5AA	048	0.98	1.01	CC5A/CD5AW	048	0.98	1.01
CE3AA	048	1.00	1.02	CD5AA	048	0.98	1.00
CK3BA	048	1.00	1.02	CE3AA	048	0.98	0.99
CK5A/CK5BA	048	1.00	1.02	CK3BA	048	0.98	0.97
CK5A/CK5BE	042	0.99	1.07	CK5A/CK5BA	048	0.98	0.97
CK5A/CK5BW	048	1.00	1.02	CK5A/CK5BT	048	0.98	0.97
CK5PA	048	1.00	1.02	CK5A/CK5BW	048	0.98	0.97
CK5PE	042	0.99	1.07	CK5PA	048	0.98	0.97
CK5PW	048	1.00	1.02	CK5PT	048	0.99	0.98
F(A,B)4BN(F,B,C)	048	1.00	1.02	CK5PW	048	0.98	0.97
FC4CN(F,B)	048	1.00	1.01	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
FE4ANF	003	0.98	0.99	CC5A/CD5AW	048	0.98	1.00
	005	0.96	0.92	CD5AA	048	0.98	1.00
FK4DNF	003	0.96	0.99	CE3AA	048	0.98	0.99
	005	0.96	0.92	CK3BA	048	0.98	0.97
FV4BNF	003	0.98	0.99	CK5A/CK5BA	048	0.98	0.97
	005	0.96	0.92	CK5A/CK5BT	048	0.98	0.97
FX4BNF	042	1.00	1.00	CK5A/CK5BW	048	0.98	0.97
COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE				CK5PA	048	0.98	0.97
CE3AA	048	0.99	1.01	CK5PT	048	0.98	0.97
CK3BA	048	0.99	0.99	CK5PW	048	0.98	0.97
CK5A/CK5BA	048	0.99	0.99	COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CK5A/CK5BT	048	0.99	0.99	CC5A/CD5AW	048	0.98	1.00
CK5PA	048	0.99	0.99	CK5A/CK5BW	048	0.98	1.00
CK5PT	048	0.99	0.99	CK5PW	048	0.98	1.00
COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE				COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AW	048	0.98	1.01	CD5AA	048	0.98	0.99
CD5AA	048	0.98	1.00	CK3BA	048	0.98	0.99
CE3AA	048	0.98	0.99	CK5A/CK5BA	048	0.98	0.99
CK3BA	048	0.98	0.97	CK5PA	048	0.98	0.99
CK5A/CK5BA	048	0.98	0.97	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
CK5A/CK5BT	048	0.98	0.97	CD5AA	048	0.98	1.00
CK5A/CK5BW	048	0.98	0.97	CK3BA	048	0.98	1.00
CK5PA	048	0.98	0.97	CK5A/CK5BA	048	0.98	1.00
CK5PT	048	0.98	0.97	CK5PA	048	0.98	1.00

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																									
		-3			7			17			27			37			47			57			67				
		Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power		
EDB	CFM	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†		
		38YZA042-31, 32 Outdoor Section With FX4BNF042 Indoor Section continued																									
65	1225	18.7	17.2	2.86	22.6	20.8	2.96	26.5	24.2	3.05	30.8	27.4	3.15	35.8	32.6	3.27	41.5	41.5	3.44	48.2	48.2	3.66	55.3	55.3	3.89		
	1400	19.0	17.5	2.90	22.9	21.1	2.98	26.9	24.5	3.06	31.2	27.7	3.14	36.3	33.0	3.25	42.1	42.1	3.40	49.0	49.0	3.61	55.5	55.5	3.78		
	1575	19.3	17.8	2.94	23.2	21.3	3.02	27.2	24.8	3.08	31.6	28.0	3.16	36.7	33.4	3.26	42.6	42.6	3.39	49.5	49.5	3.60	55.7	55.7	3.74		
70	1225	18.2	16.7	3.00	22.3	20.5	3.11	26.3	23.9	3.21	30.4	27.0	3.32	35.3	32.2	3.45	40.9	40.9	3.62	47.5	47.5	3.85	54.7	54.7	4.11		
	1400	18.6	17.1	3.04	22.6	20.8	3.13	26.6	24.3	3.22	30.8	27.4	3.31	35.8	32.6	3.43	41.5	41.5	3.58	48.2	48.2	3.79	55.3	55.3	4.02		
	1575	18.9	17.4	3.08	23.0	21.1	3.17	26.9	24.5	3.24	31.2	27.7	3.32	36.2	33.0	3.43	42.0	42.0	3.57	48.8	48.8	3.78	55.1	55.1	3.93		
75	1225	17.7	16.3	3.14	21.9	20.1	3.26	26.0	23.7	3.38	30.1	26.7	3.49	34.9	31.7	3.63	40.4	40.4	3.81	46.8	46.8	4.05	54.3	54.3	4.38		
	1400	18.0	16.6	3.18	22.2	20.4	3.28	26.3	24.0	3.39	30.5	27.1	3.48	35.3	32.2	3.61	40.9	40.9	3.76	47.5	47.5	3.99	54.6	54.6	4.23		
	1575	18.4	16.9	3.22	22.6	20.7	3.32	26.6	24.3	3.41	30.8	27.4	3.49	35.8	32.5	3.60	41.4	41.4	3.75	48.1	48.1	3.96	54.8	54.8	4.15		

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
COILS + 58MVP100-20 VARIABLE SPEED FURNACE				CK5PW	048	0.98	1.00
CD5AA	048	0.98	0.99	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CK3BA	048	0.98	0.99	CC5A/CD5AW	048	0.98	0.99
CK5A/CK5BA	048	0.98	0.99	CK5A/CK5BW	048	0.98	0.99
CK5A/CK5BW	048	0.98	1.00	CK5PW	048	0.98	0.99
CK5PA	048	0.98	0.99		—	—	—

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		EDB	CFM	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	Capacity (MBtuh)		Total Power	
Total	Int*			kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†	Total	Int*	kW†			
38YZA048-31, 32 Outdoor Section With FX4BNF048 Indoor Section																									
65	1400	19.6	18.0	3.19	23.9	22.0	3.29	28.7	26.2	3.40	34.3	30.4	3.53	41.0	37.3	3.70	48.9	48.9	3.92	57.4	57.4	4.13	68.0	68.0	4.47
	1600	19.9	18.3	3.23	24.3	22.3	3.32	29.1	26.5	3.42	34.7	30.9	3.54	41.5	37.8	3.70	49.3	49.3	3.88	57.3	57.3	4.07	65.1	65.1	4.28
	1800	20.2	18.6	3.28	24.6	22.6	3.37	29.4	26.8	3.45	35.1	31.2	3.57	42.0	38.2	3.72	49.8	49.8	3.88	57.1	57.1	4.06	63.9	63.9	4.23
70	1400	19.2	17.7	3.36	23.7	21.8	3.47	28.4	25.9	3.58	33.9	30.1	3.72	40.4	36.8	3.90	48.1	48.1	4.12	56.8	56.8	4.35	65.5	65.5	4.61
	1600	19.6	18.0	3.40	24.1	22.1	3.50	28.8	26.3	3.60	34.3	30.5	3.73	42.2	38.4	3.90	48.8	48.8	4.10	57.0	57.0	4.28	64.7	64.7	4.50
	1800	19.9	18.3	3.45	24.4	22.4	3.54	29.1	26.6	3.63	34.7	30.8	3.75	41.4	37.7	3.91	49.1	49.1	4.07	53.3	53.3	4.15	63.8	63.8	4.45
75	1400	18.9	17.4	3.53	23.5	21.6	3.66	28.2	25.7	3.78	33.5	29.8	3.92	39.9	36.3	4.10	47.5	47.5	4.33	56.2	56.2	4.58	65.1	65.1	4.86
	1600	19.2	17.7	3.58	23.8	21.9	3.68	28.5	26.0	3.79	33.9	30.1	3.92	40.4	36.8	4.09	48.1	48.1	4.30	56.6	56.6	4.51	64.4	64.4	4.74
	1800	19.5	18.0	3.63	24.1	22.2	3.73	28.9	26.3	3.82	34.3	30.5	3.94	40.9	37.2	4.10	48.6	48.6	4.31	56.7	56.7	4.49	63.7	63.7	4.69

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	1.00	1.06	CK5A/CK5BT	060	0.99	0.95
CC5A/CD5AW	060	1.00	1.01	CK5A/CK5BX	060	0.99	0.95
CE3AA	060	1.01	1.02	CK5PA	060	0.99	0.95
CK3BA	060	1.00	0.98	CK5PT	060	0.99	0.95
CK5A/CK5BA	060	1.00	0.98	CK5PX	060	0.99	0.93
CK5A/CK5BX	060	1.01	0.98	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
CK5PA	060	1.00	0.98	CC5A/CD5AW	060	0.98	1.02
CK5PX	060	1.01	0.98	CE3AA	060	0.98	0.97
F(A,B)4BN(F,B,C)	060	1.01	1.04	CK3BA	060	0.99	0.94
FB4BNB	070	1.00	0.97	CK5A/CK5BA	060	0.99	0.93
FC4CN(F,B)	060	1.00	1.03	CK5A/CK5BT	060	0.99	0.94
FC4CNB	070	1.00	0.97	CK5A/CK5BX	060	0.99	0.94
FE4ANB	006	1.00	0.91	CK5PA	060	0.99	0.94
FE4ANF	005	0.99	0.95	CK5PT	060	0.99	0.94
FG3AAA	060	0.98	0.96	CK5PX	060	0.99	0.93
FK4DNB	006	1.00	0.91	COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
FK4DNF	005	0.99	0.95	CC5A/CD5AA	060	1.00	0.99
FV4BNB	006	1.00	0.91	CC5A/CD5AW	060	1.00	0.98
FV4BNF	005	0.99	0.95	CK3BA	060	0.99	0.98
FX4BNB	060	1.00	0.97	CK5A/CK5BA	060	0.99	0.98
FX4BNF	048	1.00	1.00	CK5A/CK5BX	060	1.00	0.98
COILS + 58CV(A,X)090-16 VARIABLE SPEED FURNACE				CK5PA	060	0.99	0.98
CE3AA	060	0.99	0.93	CK5PX	060	1.00	0.98
COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE				COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CD5PX	060	1.00	0.93	CC5A/CD5AA	060	0.99	0.97
CE3AA	060	0.99	0.99	CC5A/CD5AW	060	1.00	0.97
CK3BA	060	0.99	0.94	CK3BA	060	0.99	0.97
CK5A/CK5BA	060	0.98	0.96	CK5A/CK5BA	060	0.99	0.97
CK5A/CK5BT	060	0.99	0.94	CK5A/CK5BX	060	1.00	0.97
CK5A/CK5BX	060	0.99	0.94	CK5PA	060	0.99	0.97
CK5PA	060	0.99	0.94	CK5PX	060	1.00	0.97
CK5PT	060	0.99	0.94	COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CK5PX	060	0.99	0.93	CC5A/CD5AA	060	0.99	0.96
COILS + 58CV(A,X)135-22 VARIABLE SPEED FURNACE				CC5A/CD5AW	060	1.00	0.97
CC5A/CD5AW	060	0.98	0.97	CK3BA	060	0.99	0.96
CE3AA	060	0.98	0.96	CK5A/CK5BA	060	0.99	0.96
CK3BA	060	0.99	0.95	CK5A/CK5BX	060	1.00	0.97
CK5A/CK5BA	060	0.99	0.93	CK5PA	060	0.99	0.96
	—	—	—	CK5PX	060	1.00	0.97

See notes on pg. 34.

Heat pump heating performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																										
		-3			7			17			27			37			47			57			67					
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)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†	Capacity (MBtuh)		Total Power (kW)†			
		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*		Total	Int*	
38YZA060-31, 32 Outdoor Section With FX4BNB060 Indoor Section																												
65	1750	26.3	24.2	4.04	32.5	29.9	4.19	38.7	35.3	4.33	45.2	40.1	4.46	52.9	48.1	4.63	61.7	61.7	4.83	72.3	72.3	5.11	84.4	84.4	5.41			
	2000	26.8	24.7	4.10	33.0	30.3	4.23	39.2	35.7	4.35	45.8	40.6	4.46	53.5	48.7	4.61	62.6	62.6	4.80	73.4	73.4	5.06	84.1	84.1	5.27			
	2250	27.3	25.1	4.17	33.5	30.8	4.29	39.6	36.1	4.39	46.3	41.1	4.49	54.2	49.3	4.62	63.3	63.3	4.80	74.4	74.4	5.02	84.0	84.0	5.20			
70	1750	25.3	23.3	4.20	31.8	29.2	4.38	38.3	34.9	4.55	44.7	39.7	4.69	52.2	47.5	4.86	60.9	60.9	5.08	71.3	71.3	5.37	83.2	83.2	5.68			
	2000	25.9	23.8	4.26	32.4	29.8	4.43	38.8	35.4	4.57	45.3	40.2	4.69	52.9	48.2	4.84	61.7	61.7	5.04	72.4	72.4	5.30	84.3	84.3	5.57			
	2250	26.4	24.3	4.34	32.9	30.2	4.48	39.3	35.8	4.61	45.8	40.7	4.71	53.5	48.7	4.85	62.4	62.4	5.03	73.2	73.2	5.28	84.1	84.1	5.49			
75	1750	24.2	22.3	4.34	31.0	28.5	4.58	37.8	34.4	4.77	44.3	39.3	4.94	51.7	47.0	5.12	60.1	60.1	5.34	70.3	70.3	5.63	82.2	82.2	5.98			
	2000	24.8	22.8	4.41	31.6	29.1	4.62	38.3	35.0	4.79	44.8	39.8	4.93	52.3	47.6	5.09	60.9	60.9	5.29	71.3	71.3	5.56	83.1	83.1	5.84			
	2250	25.4	23.3	4.49	32.2	29.6	4.68	38.9	35.4	4.83	45.3	40.3	4.95	52.9	48.1	5.09	61.7	61.7	5.28	72.2	72.2	5.53	83.5	83.5	5.77			

Multipliers for Determining the Performance With Other Indoor Sections.

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AW	060	0.97	1.04	FK4DNB	006	0.99	0.96
CK5A/CK5BX	060	0.98	1.01	FV4ANB	006	1.00	0.97
CK5PX	060	0.98	1.01	FV4BNB	006	1.00	0.97
FB4ANB	070	1.00	1.00	FX4ANB	060	1.00	1.00
FB4BNB	070	1.00	1.00	FX4BNB	060	1.00	1.00
FC4BNB	070	1.00	1.00	COILS + 58CV(A,X)110-22 VARIABLE SPEED FURNACE			
FC4CNB	070	1.00	1.00	CD5PX	060	0.98	0.96
FE4ANB	006	1.00	0.97	COILS + 58CV(A,X)155-22 VARIABLE SPEED FURNACE			
FK4CNB	006	0.99	0.96	CC5A/CD5AW	060	0.98	1.02

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

* 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

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 for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
4. Minimum outdoor operating air temperature for heating mode is -30°F (-34.4°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. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft/indoor coil below = 150 ft (see items 8 and 9 following).
8. For interconnecting refrigerant tube lengths greater than 50 ft and/or elevation differences between indoor and outdoor units greater than 20 ft, consult Application Guide-line and Service Manual—Air Conditioners and Heat Pumps Using Puron® Refrigerant.
9. If ANY refrigerant tubing is buried, provide a minimum 6-in. vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. may be buried without further considerations. Do not bury lines greater than 36 in.
10. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
11. Mismatches of indoor coil capacity more than 1 size larger than outdoor unit capacity (unless so specified) may result in inadequate indoor comfort.
12. Do not apply capillary tube indoor coils to these units.
13. Factory-supplied filter drier must be installed.

Guide specifications

**Air-Cooled, Split-System
Heat Pump
38YZA
1-1/2 to 5 Tons Nominal**

GENERAL

System Description

Outdoor-mounted, air-cooled, split-system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, 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 ARI Standard 210.

Unit will be certified for capacity, efficiency, and listed in the latest ARI directory.

Unit construction will comply with latest edition of ANSI/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 will be leak tested at 250 psig and pressure tested at 450 psig.

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 air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron, 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, discharging air upward.

Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings.

Shafts will be corrosion resistant.

Fan blades will be statically and dynamically balanced.

Condenser fan openings will be equipped with PVC-coated steel wire safety guards.

Compressor

Compressor will be hermetically sealed.

Compressor will be mounted on rubber vibration isolators.

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 shutoff valve with sweat connections, vapor-line shutoff valves with sweat connections, system charge of Puron® refrigerant, POE compressor oil, accumulator, and reversing valve.

Operating Characteristics

The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F. 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 wet bulb and _____ °F dry bulb, and air entering the unit at _____ °F.

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.

