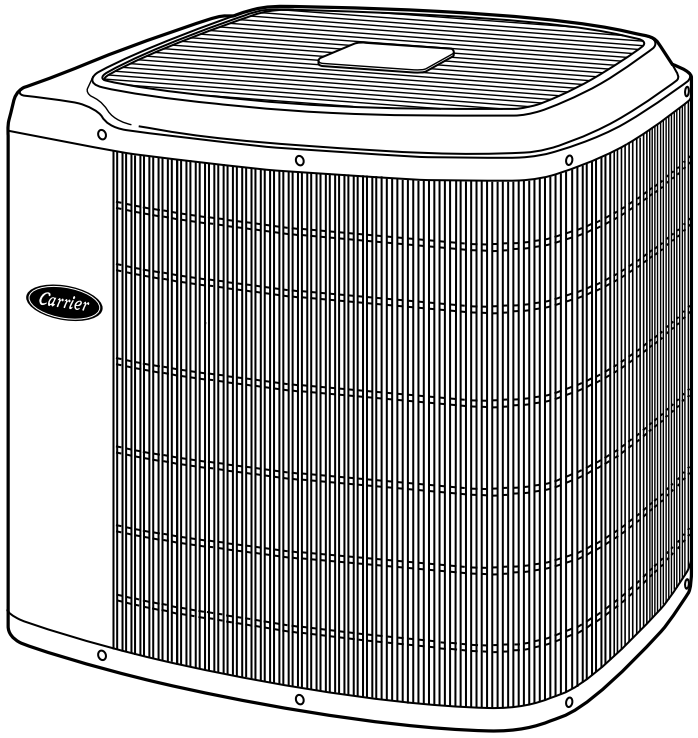
Carrier®
HEATING & COOLING

Product Data

38TSA (60 Hz) Air Conditioner with Puron® (R-410A)

Sizes 024 thru 042



Puron®
the environmentally sound refrigerant

Carrier's WeatherMaker 38TSA with Puron® provides a completely unique collection of features which cannot be matched by any other family of equipment. The 38TSA family has been designed as the first air conditioning system utilizing Carrier's unique Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer. Carrier's WeatherMaker systems with Puron are certified by the independent Green Seal organization. These systems also meet the Energy Star™ guidelines for energy efficiency.

FEATURES/BENEFITS

Puron® Environmentally Sound Refrigerant — Is Carrier's unique refrigerant designed to help protect the environment. Puron is an HFC refrigerant that does not contain chlorine which is damaging to the ozone layer. The most important advantage of Puron refrigerant is that it has not been banned in future air conditioning systems as the traditional refrigerant R-22 has been. Puron refrigerant is in service in thousands of systems providing highly reliable, environmentally sound performance. For specific R-22 phase out information see your Carrier distributor.

High Efficiency Performance — Is delivered through a combination of features including Carrier's Puron refrigerant, scroll compressor, and advanced heat transfer surfaces. Efficiency ratings are 14 SEER (Seasonal Energy Efficiency Ratio) with enhanced ratings of up to 15.75 SEER. Sophisticated heat transfer surfaces utilized in Carrier's 38TSA design allow heat to easily be transferred to the outdoor air and requires less energy. The scroll compressor found in the 38TSA design performs quietly and adds to the overall efficiency of the system. Finally, Carrier's Puron refrigerant operates more efficiently than R-22 refrigerant found in other systems. The efficiency levels provided by the 38TSA provide end users with lower costs of operation than traditional air conditioning systems. 38TSA models are shipped with a Puron TXV (thermostatic expansion valve) for field installation. The installation of this TXV adds to the efficiency of the 38TSA's.

Copyright 1999 Carrier Corporation

Assured Future Service— By utilizing the environmentally sound refrigerant, Puron, 38TSA models will remain serviceable well into the future. The Clean Air Act of 1990 has placed a cap on production of most other refrigerants which has scheduled reductions beginning in 2004. The resulting cap in production ultimately results in a complete ban on many other refrigerants in new equipment by the year 2010. These changes, required by federal law, mean the supply of other refrigerants may be limited in the near future making Puron the correct choice when considering long term serviceability.

Highly Reliable Performance— Is delivered through the superior design of the system and componentry. The reliability of the WeatherMaker models have been proven to provide the lowest incidence of warranty service of any product in the Carrier family in its first 2 years of service. Long term reliability is assured through the use of both high and low pressure switches which will not allow the system to operate in the event of a significant change in operating pressure. In doing this, the system is protected from damage if an unusual condition arises. Finally, Carrier includes a special liquid line filter drier designed to trap moisture and contaminants which could otherwise shorten the life of the system.

Carrier's Silencer System— Is one of the most sought after features of the 38TSA family. Extremely low operating sound is the result of special attention to the air moving through the outdoor unit, a specially designed sound enclosure surrounding the compressor, and an exclusive laminated plate beneath the compressor to eliminate sound transmission to the rest of the system.

Application Versatility— Carrier's systems utilizing Puron refrigerant have the same application guidelines as other systems. Applications which include long line sets (50 to 175 ft) or applications which require the system to operate at low outdoor temperatures (below 55°F, 12.8°C) are approved under Carrier's standard guidelines.

Carrier Coils and Fan Coils to Complete the System — Carrier specially designs both the outdoor product and indoor coil products to operate with assured reliability and performance. A wide range of indoor coil options are listed in the ratings section of this publication.

Special Protective Devices— High and low pressure switches and internal protection in the compressor including temperature and current sensing overloads prevent operation under potentially damaging circumstances. A special liquid line filter drier designed to trap nearly 4 times the volume of contaminants of standard driers provides superior protection from moisture trapped in the system.

Electrical Range — 208/230v, single phase.

Wide Range of Sizes — Available in four sizes: 2, 2-1/2, 3, and 3-1/2 tons.

WeatherArmor III System is a three component system—The 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 the cabinet exterior are SermaGuard coated for a long lasting, rust-resistant, quality appearance.

The coil is protected with an enhanced coil guard. With spacing of 3/8 in. and construction of coated 12 gage wire, the guard helps to protect from inclement weather (hail), vandalism, and incidental damage.

Totally Enclosed Fan Motor — Protected from adverse weather conditions.

Unit Design — Enhanced copper and aluminum heat transfer surfaces with vertical air discharge to direct air up and away from the area.

External Service Valves — Both service valves are back seating type valves which are externally located. These unique valves allow service technicians to evacuate or charge the system in less time than standard service valves.

Easy Serviceability — Easy removal of panels provides access to both electrical and refrigerant carrying components, simplifying installation and service.

Agency Approvals — 38TSA models are listed with UL, c-UL, ARI, CEC, and CSA-EEV. Special endorsements have also been awarded these products by Green Seal, an independent organization monitoring environmental concerns; and Energy Star™ which recognizes energy efficient products.

Limited Warranty — A standard one year warranty on parts with extended warranty coverage on the compressor for a total of 10 years. Optional warranties are available through your Carrier distributor.

As an ENERGY STAR™ partner, Carrier Corporation has determined that this product meets the ENERGY STAR™ guidelines for energy efficiency.

Meets GREEN SEAL Environmental Criteria for high energy efficiency, low noise, and recycled packaging. Does not use an Ozone depleting substance during manufacturing, or as a refrigerant.

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

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

CERTIFICATE NO. FM 28768

REGISTERED QUALITY SYSTEM

Model number nomenclature

38TSA — **Deluxe 14 SEER Split-System Air Conditioner**

024 — **Nominal Capacity**
024 — 24,000 Btuh
030 — 30,000 Btuh
036 — 36,000 Btuh
042 — 42,000 Btuh

3 — **Electrical**
3 — 208/230-1

0 — **Series**

1 — **Packaging**

Physical data

Unit Size-Series	024-30	030-30	036-30	042-30
Operating Weight (Lb)	290	290	293	294
COMPRESSOR				
Manufacturer	Copeland			
Type	Scroll			
REFRIGERANT	Puron®			
Control	AccuRater® (Bypass Type)			
Charge (Lb)	8.76	9.11	9.83	9.66
COND FAN	Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	2400	2400	2800	2800
Motor HP	1/8	1/8	1/5	1/5
Motor RPM	825	825	825	825
COND COIL	Copper Tube, Aluminum Plate Fin			
Face Area (Sq ft)	18.25	18.25	18.25	18.25
Fins per In.	20	20	20	20
Rows	2	2	2	2
Circuits	4	4	4	4
VALVE CONNECT. (In. ID)	Sweat			
Vapor	5/8	3/4	3/4	7/8
Liquid	3/8			
REFRIGERANT TUBES* (In. OD)				
Vapor (0–50 Ft Tube Length)	5/8	3/4	3/4	7/8
Vapor (Max Diameter for Long-Line Applications)	3/4	7/8	7/8	1-1/8
Liquid (0–50 Ft Tube Length)	3/8			
Liquid (For Long-Line Applications)	3/8			

* For tubing sets greater than 50 ft, consult Residential Split System Long-Line Application Guideline and Service Manual.

NOTE: See unit Installation Instructions for proper installation.

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE*)

UNIT SIZE-SERIES	REQUIRED SUBCOOLING (°F)
024-30	8
030-30	11
036-30	11
042-30	9

* Must be a Puron® approved hard shutoff TXV.

Accessories

ORDERING NO.	DESCRIPTION
KAATD0101TDR	Time-Delay Relay — All Sizes
KSALA0301410	Low-Ambient Pressure Switch — All Sizes
P251-0083 (RCD)	Low-Ambient Controller — All Sizes
32LT660004* (RCD)	MotorMaster® Control — All Sizes
KAAFT0101AAA†	Evaporator Freeze Thermostat — All Sizes
KAAWS0201AAA†	Winter Start Control — All Sizes
KSACY0101AAA	Cycle Protector — All Sizes
KSAHS1501AAA	Start Assist — Capacitor and Relay — All Sizes
KAACS0201PTC	Start Assist — PTC — All Sizes (Standard on Series 30)
KAACH1201AAA	Crankcase Heater — All Sizes
KSATX0201HSZ‡	Thermostatic Expansion Valve (Hard Shutoff) — Sizes 024, 030 (Factory Supplied)
KSATX0301HSZ‡	Thermostatic Expansion Valve (Hard Shutoff) — Sizes 036, 042 (Factory Supplied)
KSAPX0101PIS	Piston Body — All Sizes
HC38GE231 (RCD)	Ball Bearing Fan Motor — All Sizes
KH45LG140 (RCD)	Filter Drier (Suction Line) — Sizes 024–036
KH45LG141 (RCD)	Filter Drier (Suction Line) — Size 042
KAALS0201LLS‡	Liquid-Line Solenoid Valve — All Sizes
KSASF0101AAA	Support Feet — All Sizes
KAACF0201MED	Coastal Filter — All Sizes

* Fan motor with ball bearings required.
† See low-ambient controller Installation Instructions for application.
‡ Do not use hard shutoff TXV with Liquid-Line Solenoid Valve. Use only these specified components.

THERMOSTAT/SUBBASE PKG	DESCRIPTION
TSTATCCNAC01-B	Thermostat — Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCPAC01-B	Thermostat — Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCPRH01-B	Thermidistat™ Control — Programmable Thermostat with Humidity Control
TSTATCCBAC01	Builder's Thermostat — Manual Changeover, Non-Programmable, °F/°C, 1 Stage Heat, 1-Stage Cool
TSTATXXSEN01-B	Outdoor Air Temperature Sensor
TSTATXXNBP01	Backplate for Non-Programmable Thermostat
TSTATXXPBP01	Backplate for Programmable Thermostat
TSTATXXBBP01	Backplate for Builder's Thermostat
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) — 10 Pack

Accessory usage guideline

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATIONS (Below 55°F)	REQUIRED FOR LONG-LINE APPLICATIONS* (Over 50 Ft)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 Miles)
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Winter Start Control	Yes†	No	No
Accumulator	No	No	No
Compressor Start Assist — Capacitor and Relay	Yes	Yes	No
Low-Ambient Controller, MotorMaster® Control, or Low-Ambient Pressure Switch	Yes	No	No
Wind Baffle	See Low-Ambient Instructions	No	No
Coastal Filter	No	No	Yes
Support Feet	Recommended	No	Recommended
Liquid-Line Solenoid Valve or Hard Shutoff TXV	No	See Long-Line Application Guideline	No
Ball Bearing Fan Motor	Yes‡	No	No

* For Tubing line sets greater than 50 ft, refer to Residential Split System Long-Line Application Guideline and Service Manual.
† Only when low-pressure switch is used.
‡ Required for Low-Ambient Controller (full modulation feature) and MotorMaster® Control only.

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.
SUGGESTED USE: Required on all units where Low-Ambient Controller (full modulation feature) or MotorMaster® Control has been added.

2. **Coastal Filter**
   A mesh screen inserted under the top cover and inside the base pan to protect the condenser coil from corrosive atmosphere without restricting airflow.
SUGGESTED USE: In geographic areas where salt damage could occur.
In areas with high pollution levels.

3. **Compressor Start Assist — Capacitor and Relay**
   Start capacitor and start relay which gives ‘‘hard’’ boost to compressor motor at each start-up.
SUGGESTED USE: Installations where interconnecting tube length exceeds 50 ft.
Installations where outdoor design temperature exceeds 105°F (40.6°C).
Installations where low voltage or brown-out conditions may occur.

4. **Compressor Start Assist — PTC**
   Solid-state electrical device which gives a ‘‘soft’’ boost to compressor at each start-up.
SUGGESTED USE: 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 chance of refrigerant slugging. May or may not include a thermostat control.
SUGGESTED USE: When interconnecting tube length exceeds 50 ft.
When unit will be operated below 55°F (12.8°C) outdoor air temperature. Use with Low-Ambient Controller.
All commercial installations.

6. **Cycle Protector**
   Solid-state timing device which prevents compressor rapid recycling. Control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including normal room thermostat cycling.
SUGGESTED USE: Installations in areas where power interruptions are frequent.
Where user is likely to “play” with the room thermostat.
All commercial installations.
Installations where interconnecting tube length exceeds 50 ft.
High-rise applications.

7. **Evaporator Freeze Thermostat**
   An SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.
SUGGESTED USE: All units where Winter Start Control has been added.

8. **Filter Drier (Suction Line)**
   A device for removing contaminants from refrigerant circulating in an air conditioner: 1 direction flow.
   NOTE: Must be removed in 72 hrs.
SUGGESTED USE: All split-system air conditioners.

9. **Liquid-Line Solenoid Valve (LSV)**
   An electrically operated shutoff valve to be installed at the outdoor or indoor unit (depending on tubing configuration) and which stops and starts refrigerant liquid flow in response to compressor operation. Maintains a column of refrigerant liquid ready for action at next compressor operation cycle.
   NOTE: Compressor Start Assist — Capacitor and Relay must also be used for Series 30 only. Do not use with hard shutoff TXV.
SUGGESTED USE: For improved system performance in air conditioners for certain combinations of indoor and outdoor units Refer to ARI Unitary Directory.
In certain long-line applications. Refer to Residential Split System Application Guideline and Service Manual.

10. **Low-Ambient Controller**
    Head pressure controller is a cycle control device activated by a temperature sensor mounted on a header tube of the outdoor coil. It is designed to cycle the outdoor fan motor in order to maintain condensing temperature within normal operating limits (approximately 100°F [37.8°C] high and 60°F [15.5°C] low). The control will maintain working head pressure at low-ambient temperatures down to 0°F (–17.8°C) when properly installed.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).

11. **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 when properly installed.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).

12. **MotorMaster® Control**
    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 ± 5.6°C).
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
All commercial installations.

13. **Outdoor Air Temperature Sensor**
    A device that allows the temperature at a remote location (outdoors) to be displayed at the thermostat.
SUGGESTED USE: All corporate programmable thermostats.

14. **Piston Body**
    This piston body is to be used as a replacement for the FK4C Fan Coil R-22 thermostatic expansion valve when used with Puron® (R-410A) air conditioner units.
    Use piston and piston ring shipped with outdoor unit for installations under 50 ft.
SUGGESTED USE: All Puron® (R-410A) air conditioner installations matched with FK4C Fan Coils.

15. **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 minimizing corrosion.
SUGGESTED USE: For improved sound ratings.
Coastal installations.
Windy areas or where debris is normally circulating.
Rooftop installations.

16. **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, and external equalizer tube. Hard shutoff type valves are available.
    NOTE: Compressor Start Assist — Capacitor and Relay must also be used for Series 30 only. Do not use with Liquid-Line Solenoid Valve.
SUGGESTED USE: For improved system performance in cooling mode for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.
Required for use on all zoning systems.

17. **Time-Delay Relay**
    An SPST delay relay which briefly continues operation of the indoor blower motor to provide additional cooling after the compressor cycles off.
SUGGESTED USE: For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.
Required for use on all zoning systems.

18. **Winter Start Control**
    An SPST delay relay which bypasses the low-pressure switch for approximately 3 minutes to permit start-up for cooling operation under low-load conditions.
SUGGESTED USE: All air conditioners where Low-Ambient Controller has been added.

Electrical data

UNIT SIZE-SERIES	V/PH	OPER VOLTS*		COMPR		FAN FLA	MCA	60°C MIN WIRE SIZE†	75°C MIN WIRE SIZE†	60°C MAX LENGTH (Ft)‡	75°C MAX LENGTH (Ft)‡	MAX FUSE** CKT BKR AMPS
		Max	Min	LRA	RLA							
024-30	208/230/1	253	187	61.0	13.5	0.5	17.4	14	14	45	43	25
030-30				72.5	14.7	0.8	19.2	14	14	41	39	30
036-30				83.0	15.4	0.8	20.1	12	12	62	59	30
042-30				105.0	18.6	1.1	24.4	10	10	81	77	40

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

† 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).

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

** Time-delay fuse.

FLA — Full Load Amps
LRA — Locked Rotor Arms
MCA — Minimum Circuit Amps
RLA — Rated Load Amps

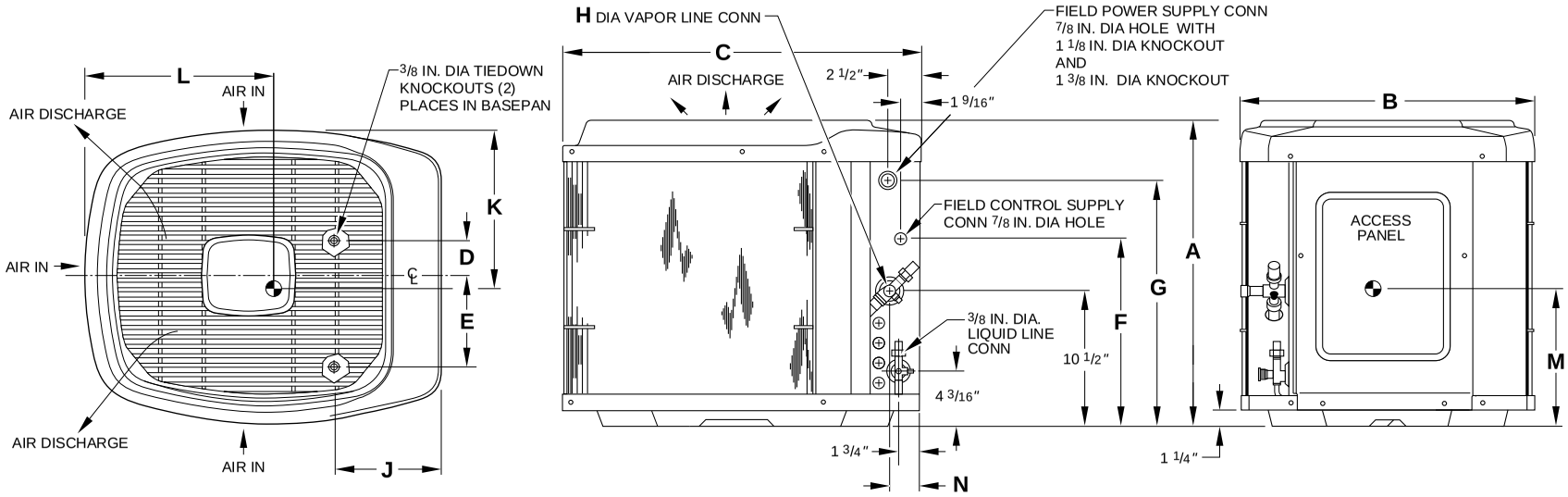
NOTE: Control circuit is 24-v on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

Sound power (dBA)

UNIT SIZE	SOUND LEVEL (dBA)	OCTAVE BAND CENTER FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	8000
024	69	58.5	60	63.5	63.5	61	58	50.5
030	70	56	61	63	64.5	62.5	57.5	50
036	72	56.5	64	65	67	63	58.5	50
042	73	58.5	66.5	66	66.5	64.5	59	50.5

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. Series designation is the 13th position of the unit model number.
4. Center of gravity ⊕.



A97084

DIMENSIONS (IN.)

UNIT SIZE	SERIES	UNIT DIMENSIONS													MINIMUM MOUNTING PAD DIMENSIONS
		A	B	C	D	E	F	G	H	J	K	L	M	N	
024	30	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	5/8	8-3/16	16-3/4	19-1/2	17-1/4	2-15/16	26 x 32
030	30	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	3/4	8-3/16	16-3/4	19-1/2	17-1/4	2-15/16	26 x 32
036	30	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	3/4	8-3/16	16-3/4	19-1/2	17-1/4	2-15/16	26 x 32
042	30	39-13/16	30	34-15/16	4	9-3/4	27-1/2	33-7/8	7/8	8-3/16	16-3/4	19-1/2	17-1/4	2-15/16	26 x 32

Combination ratings

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
024-30	CJ5A/CK5A/CK5BA036*	25,000	TXV	14.00	14.00	12.10
	CC5AA024	24,000	TXV	13.30	13.30	11.55
	CC5AA030	24,600	TXV	13.50	13.50	11.65
	CC5A/CD5AA036	25,000	TXV	14.00	14.00	12.05
	CC5AW024	24,000	TXV	13.30	13.30	11.55
	CC5AW030	24,600	TXV	13.50	13.50	11.65
	CD5AW036	25,000	TXV	14.00	14.00	12.05
	CE3AA024	24,000	TXV	13.50	13.50	11.70
	CE3AA030	24,600	TXV	13.50	13.50	11.85
	CE3AA036	25,000	TXV	13.70	13.70	11.90
	CF5AA024	24,000	TXV	13.50	13.50	11.65
	CF5AA036	25,000	TXV	13.70	13.70	12.00
	CG5AA024	24,000	TXV	13.50	13.50	11.65
	CG5AA036	25,000	TXV	13.70	13.70	12.00
	CK3BA024	24,000	TXV	13.50	13.50	11.75
	CK3BA030	24,600	TXV	13.50	13.50	11.75
	CK3BA036	25,000	TXV	14.00	14.00	12.10
	CK5A/CK5BA024	24,000	TXV	13.50	13.50	11.75
	CK5A/CK5BA030	24,600	TXV	13.50	13.50	11.75
	CK5A/CK5BN036	25,000	TXV	14.00	14.00	12.10
	CK5A/CK5BT036	25,000	TXV	14.00	14.00	12.10
	CK5A/CK5BW024	24,000	TXV	13.50	13.50	11.75
	CK5A/CK5BW030	24,600	TXV	13.50	13.50	11.75
	CK5A/CK5BW036	25,000	TXV	14.00	14.00	12.10
	F(A,B)4AN(F,C)024	24,000	TDR&TXV	13.50	13.50	11.85
	F(A,B)4AN(F,C)030	24,600	TDR&TXV	13.70	13.70	12.00
	F(A,B)4AN(F,C)036	25,000	TDR&TXV	13.50	13.50	11.70
	FC4BNF024‡	24,000	TDR&TXV	13.50	13.50	11.85
	FC4BNF030‡	24,600	TDR&TXV	13.70	13.70	12.00
	FC4BNF036‡	25,000	TDR&TXV	13.50	13.50	11.70
	FG3AAA036	25,000	TXV	13.60	13.60	11.85
	FG3AAA024	24,000	TXV	13.00	13.00	11.40
	FK4CNF001‡	24,000	TDR&TXV	15.00	15.00	13.10
	40FKA/FK4CNF002‡	24,600	TDR&TXV	15.20	15.20	13.25
	40FKA/FK4CNF003‡	25,000	TDR&TXV	15.50	15.50	13.50
	FV4ANF002	24,600	TDR&TXV	15.40	15.40	13.25
	FV4ANF003	25,000	TDR&TXV	15.60	15.60	13.50
	FX4ANF030	24,600	TDR&TXV	14.00	14.00	12.15
	FX4ANF036	25,000	TDR&TXV	13.60	13.60	11.85
	COILS + 58MVP040-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AW030	24,600	TDR&TXV	14.50	14.50	12.60
	CC5A/CD5AW036	25,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BW030	24,600	TDR&TXV	14.50	14.50	12.75
	CK5A/CK5BW036	25,000	TDR&TXV	15.00	15.00	13.20
	COILS + 58MVP060-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA036	25,000	TDR&TXV	15.00	15.00	13.10
	CC5A/CD5AW024	24,000	TDR&TXV	14.30	14.30	12.40
	CC5A/CD5AW030	24,600	TDR&TXV	14.50	14.50	12.60
	CK3BA024	24,000	TDR&TXV	14.50	14.50	12.65
	CK3BA030	24,600	TDR&TXV	14.50	14.50	12.75
	CK3BA036	25,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BA036	25,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BW024	24,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BW030	24,600	TDR&TXV	14.50	14.50	12.75
	COILS + 58MVP080-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AW024	24,000	TDR&TXV	14.50	14.50	12.70
	CC5A/CD5AW030	24,600	TDR&TXV	15.00	15.00	12.85
	CC5A/CD5AW036	25,000	TDR&TXV	15.00	15.00	13.30
	CK5A/CK5BW024	24,000	TDR&TXV	15.00	15.00	12.90
	CK5A/CK5BW030	24,600	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BW036	25,000	TDR&TXV	15.00	15.00	13.40
	COILS + 58U(H,X)060-12 VARIABLE SPEED FURNACE					
	CC5A/CD5AA024	24,000	TDR&TXV	14.30	14.30	12.50
	CC5A/CD5AA030	24,600	TDR&TXV	14.50	14.50	12.70
	CC5A/CD5AA036	25,000	TDR&TXV	15.00	15.00	13.15
	CC5A/CD5AW030	24,600	TDR&TXV	14.50	14.50	12.70
	CK3BA024	24,000	TDR&TXV	14.50	14.50	12.80
	CK3BA030	24,600	TDR&TXV	14.50	14.50	12.85
	CK3BA036	25,000	TDR&TXV	15.00	15.00	13.25
	CK5A/CK5BA024	24,000	TDR&TXV	14.50	14.50	12.80
	CK5A/CK5BA030	24,600	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BA036	25,000	TDR&TXV	15.00	15.00	13.25
	CK5A/CK5BN036	25,000	TDR&TXV	15.00	15.00	13.10
	CK5A/CK5BW030	24,600	TDR&TXV	14.50	14.50	12.85
030-30	CK5A/CK5BT042*	30,000	TXV	14.00	14.00	12.10
	CC5A/CD5AA030	29,000	TXV	13.50	13.50	11.70
	CC5A/CD5AA036	29,600	TXV	13.80	13.80	12.05
	CC5A/CD5AA042	30,000	TXV	13.70	13.70	12.05

See notes on pg. 13.

Combination ratings continued

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
	CC5A/CD5AW030	29,000	TXV	13.50	13.50	11.70
	CC5A/CD5AW042	30,000	TXV	13.70	13.70	12.00
	CD5A/CD5AW036	29,600	TXV	13.80	13.80	12.05
	CE3AA030	29,000	TXV	13.50	13.50	11.85
	CE3AA036	29,600	TXV	13.50	13.50	11.95
	CE3AA042	30,000	TXV	14.00	14.00	12.10
	CF5AA036	29,600	TXV	13.50	13.50	12.00
	CG5AA036	29,600	TXV	13.50	13.50	12.00
	CK3BA030	29,000	TXV	13.50	13.50	11.75
	CK3BA036	29,600	TXV	13.80	13.80	12.10
	CK3BA042	30,000	TXV	14.00	14.00	12.10
	CK5A/CK5BA030	29,000	TXV	13.50	13.50	11.75
	CK5A/CK5BA036	29,600	TXV	13.80	13.80	12.10
	CK5A/CK5BA042	30,000	TXV	14.00	14.00	12.10
	CK5A/CK5BA042	30,000	TXV	14.00	14.00	12.10
	CK5A/CK5BN036	29,600	TXV	13.60	13.60	12.10
	CK5A/CK5BN042	30,000	TXV	14.00	14.00	12.10
	CK5A/CK5BT036	29,600	TXV	13.80	13.80	12.10
	CK5A/CK5BW030	29,000	TXV	13.50	13.50	11.75
	CK5A/CK5BW036	29,600	TXV	13.80	13.80	12.10
	F(A,B)4AN(F,B,C)042	30,000	TDR&TXV	13.50	13.50	11.70
	F(A,B)4AN(F,C)030	29,000	TDR&TXV	14.00	14.00	12.00
	F(A,B)4AN(F,C)036	29,600	TDR&TXV	13.50	13.50	11.75
	FC4BN(F,B)042‡	30,000	TDR&TXV	13.50	13.50	11.70
	FC4BNF030‡	29,000	TDR&TXV	14.00	14.00	12.00
	FC4BNF036‡	29,600	TDR&TXV	13.50	13.50	11.75
	FG3AAA036	29,600	TXV	13.50	13.50	11.85
	FK4CNF001‡	29,000	TDR&TXV	15.00	15.00	13.05
	40FKA/FK4CNF002‡	29,600	TDR&TXV	15.00	15.00	13.15
	40FKA/FK4CNF003‡	29,800	TDR&TXV	15.50	15.50	13.60
	40FKA/FK4CNF005‡	30,000	TDR&TXV	15.75	15.75	14.00
	FV4ANF002	29,600	TDR&TXV	15.20	15.20	13.15
	FV4ANF003	29,800	TDR&TXV	15.60	15.60	13.60
	FV4ANF005	30,000	TDR&TXV	15.75	15.75	14.00
	FX4ANF030	29,000	TDR&TXV	14.00	14.00	12.15
	FX4ANF036	29,600	TDR&TXV	13.85	13.85	11.90
	FX4ANF042	30,000	TDR&TXV	13.60	13.60	11.90
	COILS + 58MVP040-14 VARIABLE SPEED FURNACE					
030-30	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	13.00
	CC5A/CD5AW030	29,000	TDR&TXV	14.00	14.00	12.30
	CD5AW036	29,600	TDR&TXV	15.00	15.00	12.90
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.05
	CK5A/CK5BW030	29,000	TDR&TXV	14.00	14.00	12.35
	CK5A/CK5BW036	29,600	TDR&TXV	15.00	15.00	12.90
	COILS + 58MVP060-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA036	29,600	TDR&TXV	14.70	14.70	12.85
	CC5A/CD5AW030	29,000	TDR&TXV	14.00	14.00	12.30
	CK3BA030	29,000	TDR&TXV	14.50	14.50	12.40
	CK3BA036	29,600	TDR&TXV	15.00	15.00	12.90
	CK3BA042	30,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BA036	29,600	TDR&TXV	14.70	14.70	12.90
	CK5A/CK5BN042	30,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BW030	29,000	TDR&TXV	14.00	14.00	12.40
	COILS + 58MVP080-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	13.10
	CC5A/CD5AW030	29,000	TDR&TXV	14.50	14.50	12.40
	CD5AW036	29,600	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BW030	29,000	TDR&TXV	14.50	14.50	12.50
	CK5A/CK5BW036	29,600	TDR&TXV	15.00	15.00	13.05
	COILS + 58MVP080-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	12.95
	CC5A/CD5AW030	29,000	TDR&TXV	14.30	14.30	12.25
	CD5AW036	29,600	TDR&TXV	14.70	14.70	12.85
	CK3BA042	30,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BW030	29,000	TDR&TXV	14.30	14.30	12.30
	CK5A/CK5BW036	29,600	TDR&TXV	14.70	14.70	12.85
	COILS + 58MVP100-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	13.35
	CC5A/CD5AW030	29,000	TDR&TXV	14.70	14.70	12.75
	CD5AW036	29,600	TDR&TXV	15.00	15.00	13.30
	CK3BA042	30,000	TDR&TXV	15.00	15.00	13.40
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.40
	CK5A/CK5BW030	29,000	TDR&TXV	14.70	14.70	12.80
	CK5A/CK5BW036	29,600	TDR&TXV	15.00	15.00	13.30

See notes on pg. 13.

Combination ratings continued

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
	COILS + 58MVP120-20 VARIABLE SPEED FURNACE					
030-30	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	13.30
	CD5AW036	29,600	TDR&TXV	15.00	15.00	13.20
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.35
	CK5A/CK5BW036	29,600	TDR&TXV	15.00	15.00	13.25
	COILS + 58U(H,X)V060-12 VARIABLE SPEED FURNACE					
	CC5A/CD5AA030	29,000	TDR&TXV	14.50	14.50	12.55
	CC5A/CD5AA036	29,600	TDR&TXV	15.00	15.00	13.10
	CC5A/CD5AW030	29,000	TDR&TXV	14.50	14.50	12.55
	CK3BA030	29,000	TDR&TXV	14.50	14.50	12.65
	CK3BA036	29,600	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BA030	29,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BA036	29,600	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BN036	29,600	TDR&TXV	14.70	14.70	13.00
	CK5A/CK5BW030	29,000	TDR&TXV	14.50	14.50	12.65
	COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	30,000	TDR&TXV	15.00	15.00	13.35
	CC5A/CD5AW030	29,000	TDR&TXV	14.50	14.50	12.75
	CD5AW036	29,600	TDR&TXV	15.00	15.00	13.35
	CK3BA042	30,000	TDR&TXV	15.00	15.00	13.40
	CK5A/CK5BA042	30,000	TDR&TXV	15.00	15.00	13.40
	CK5A/CK5BW030	29,000	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BW036	29,600	TDR&TXV	15.00	15.00	13.40
036-30	CK5A/CK5BT048*	36,000	TXV	14.00	14.00	12.05
	CC5A/CD5AA036	35,000	TXV	13.70	13.70	11.95
	CC5A/CD5AA042	35,600	TXV	13.70	13.70	11.95
	CC5A/CD5AC048	35,600	TXV	13.70	13.70	11.80
	CC5A/CD5AW042	35,600	TXV	13.70	13.70	11.85
	CC5A/CD5AW048	36,000	TXV	13.70	13.70	12.00
	CD5AA048	36,000	TXV	13.70	13.70	12.00
	CD5AW036	35,000	TXV	13.70	13.70	11.95
	CE3AA036	35,000	TXV	13.50	13.50	11.80
	CE3AA042	35,600	TXV	14.00	14.00	12.05
	CE3AA048	36,000	TXV	14.00	14.00	12.10
	CF5AA036	35,000	TXV	13.50	13.50	11.90
	CF5AA048	36,000	TXV	13.80	13.80	12.00
	CG5AA036	35,000	TXV	13.50	13.50	11.90
	CG5AA048	36,000	TXV	13.80	13.80	12.00
	CK3BA036	35,000	TXV	13.70	13.70	11.95
	CK3BA042	35,600	TXV	13.70	13.70	11.95
	CK3BA048	36,000	TXV	14.00	14.00	12.05
	CK5A/CK5BA036	35,000	TXV	13.70	13.70	11.95
	CK5A/CK5BA042	35,600	TXV	13.70	13.70	11.95
	CK5A/CK5BA048	36,000	TXV	14.00	14.00	12.05
	CK5A/CK5BN036	35,000	TXV	13.70	13.70	12.05
	CK5A/CK5BN042	35,600	TXV	13.70	13.70	11.95
	CK5A/CK5BN048	36,000	TXV	14.00	14.00	12.05
	CK5A/CK5BT036	35,000	TXV	13.70	13.70	11.95
	CK5A/CK5BT042	35,600	TXV	13.70	13.70	11.95
	CK5A/CK5BW036	35,000	TXV	13.70	13.70	11.95
	CK5A/CK5BW048	36,000	TXV	14.00	14.00	12.05
	F(A,B)4AN(F,B,C)042	35,600	TDR&TXV	13.70	13.70	11.90
	F(A,B)4AN(F,B,C)048	36,000	TDR&TXV	13.80	13.80	11.95
	F(A,B)4AN(F,C)036	35,000	TDR&TXV	13.20	13.20	11.60
	FC4BN(F,B)042‡	35,600	TDR&TXV	13.70	13.70	11.90
	FC4BN(F,B)048‡	36,000	TDR&TXV	13.80	13.80	11.95
	FC4BNB054‡	36,000	TDR&TXV	14.50	14.50	12.75
	FC4BNF036‡	35,000	TDR&TXV	13.20	13.20	11.60
	FG3AAA036	35,000	TXV	13.50	13.50	11.70
	FG3AAA048	36,000	TXV	13.80	13.80	12.00
	40FKA/FK4CNB006‡	36,200	TDR&TXV	15.75	15.75	14.10
	FK4CNF001‡	35,000	TDR&TXV	14.50	14.50	12.50
	40FKA/FK4CNF002‡	35,600	TDR&TXV	14.50	14.50	12.60
	40FKA/FK4CNF003‡	35,800	TDR&TXV	15.00	15.00	13.20
	40FKA/FK4CNF005‡	36,000	TDR&TXV	15.50	15.50	13.70
	FV4ANB006	36,200	TDR&TXV	15.75	15.75	14.05
	FV4ANF002	35,600	TDR&TXV	14.50	14.50	12.60
	FV4ANF003	35,800	TDR&TXV	15.20	15.20	13.20
	FV4ANF005	36,000	TDR&TXV	15.50	15.50	13.70
	FX4ANF036	35,000	TDR&TXV	13.50	13.50	11.70
	FX4ANF042	35,600	TDR&TXV	14.00	14.00	12.10
	FX4ANF048	36,000	TDR&TXV	14.00	14.00	12.15
	COILS + 58MVP040-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	14.50	14.50	12.75
	CC5A/CD5AW048	36,000	TDR&TXV	14.50	14.50	12.75
	CD5AW036	35,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BA042	35,600	TDR&TXV	14.50	14.50	12.80
	CK5A/CK5BW036	35,000	TDR&TXV	14.50	14.50	12.70
	CK5A/CK5BW048	36,000	TDR&TXV	15.00	15.00	12.90

See notes on pg. 13.

Combination ratings continued

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
	COILS + 58MVP060-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA036	35,000	TDR&TXV	14.50	14.50	12.60
	CK3BA036	35,000	TDR&TXV	14.50	14.50	12.65
	CK3BA042	35,600	TDR&TXV	14.50	14.50	12.75
	CK5A/CK5BA036	35,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BN042	35,600	TDR&TXV	14.50	14.50	12.75
	CK5A/CK5BN048	36,000	TDR&TXV	14.50	14.50	12.75
	COILS + 58MVP080-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	14.50	14.50	12.85
	CC5A/CD5AC048	35,600	TDR&TXV	14.50	14.50	12.65
	CD5AA048	36,000	TDR&TXV	15.00	15.00	12.90
	CD5AW036	35,000	TDR&TXV	14.50	14.50	12.75
	CK3BA042	35,600	TDR&TXV	14.50	14.50	12.90
	CK3BA048	36,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BA042	35,600	TDR&TXV	14.50	14.50	12.90
	CK5A/CK5BA048	36,000	TDR&TXV	15.00	15.00	13.00
	CK5A/CK5BW036	35,000	TDR&TXV	14.50	14.50	12.80
	COILS + 58MVP080-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	14.50	14.50	12.70
	CC5A/CD5AC048	35,600	TDR&TXV	14.50	14.50	12.50
	CD5AA048	36,000	TDR&TXV	14.50	14.50	12.75
	CD5AW036	35,000	TDR&TXV	14.50	14.50	12.60
	CK3BA042	35,600	TDR&TXV	14.50	14.50	12.75
	CK3BA048	36,000	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BA042	35,600	TDR&TXV	14.50	14.50	12.75
	CK5A/CK5BA048	36,000	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BW036	35,000	TDR&TXV	14.50	14.50	12.65
	COILS + 58MVP100-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	15.00	15.00	13.00
	CC5A/CD5AC048	35,600	TDR&TXV	14.50	14.50	12.85
	CD5AA048	36,000	TDR&TXV	15.00	15.00	13.05
	CD5AW036	35,000	TDR&TXV	15.00	15.00	12.95
	CK3BA042	35,600	TDR&TXV	15.00	15.00	13.10
	CK3BA048	36,000	TDR&TXV	15.00	15.00	13.20
	CK5A/CK5BA042	35,600	TDR&TXV	15.00	15.00	13.10
	CK5A/CK5BA048	36,000	TDR&TXV	15.00	15.00	13.20
036-30	CK5A/CK5BW036	35,000	TDR&TXV	15.00	15.00	13.05
	COILS + 58MVP120-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	15.00	15.00	13.00
	CC5A/CD5AW048	36,000	TDR&TXV	15.00	15.00	13.00
	CD5AW036	35,000	TDR&TXV	15.00	15.00	12.90
	CK5A/CK5BW036	35,000	TDR&TXV	15.00	15.00	12.95
	CK5A/CK5BW048	36,000	TDR&TXV	15.00	15.00	13.15
	COILS + 58U(H,X)V060-12 VARIABLE SPEED FURNACE					
	CC5A/CD5AA036	35,000	TDR&TXV	14.50	14.50	12.60
	CK3BA036	35,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BA036	35,000	TDR&TXV	14.50	14.50	12.65
	CK5A/CK5BN036	35,000	TDR&TXV	14.50	14.50	12.50
	COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	14.50	14.50	12.90
	CC5A/CD5AC048	35,600	TDR&TXV	14.50	14.50	12.80
	CD5AA048	36,000	TDR&TXV	15.00	15.00	13.05
	CD5AW036	35,000	TDR&TXV	14.50	14.50	12.80
	CK3BA042	35,600	TDR&TXV	14.50	14.50	12.95
	CK3BA048	36,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BA042	35,600	TDR&TXV	14.50	14.50	12.95
	CK5A/CK5BA048	36,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BW036	35,000	TDR&TXV	14.50	14.50	12.85
	COILS + 58U(H,X)V100-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	15.00	15.00	13.20
	CC5A/CD5AW048	36,000	TDR&TXV	15.00	15.00	13.35
	CD5AW036	35,000	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BA042	35,600	TDR&TXV	15.00	15.00	13.25
	CK5A/CK5BW036	35,000	TDR&TXV	15.00	15.00	13.20
	CK5A/CK5BW048	36,000	TDR&TXV	15.00	15.00	13.45
	COILS + 58U(H,X)V120-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	35,600	TDR&TXV	15.00	15.00	13.10
	CC5A/CD5AW048	36,000	TDR&TXV	15.00	15.00	13.25
	CD5AW036	35,000	TDR&TXV	15.00	15.00	13.05
	CK5A/CK5BA042	35,600	TDR&TXV	15.00	15.00	13.15
	CK5A/CK5BW036	35,000	TDR&TXV	15.00	15.00	13.10
	CK5A/CK5BW048	36,000	TDR&TXV	15.00	15.00	13.35
042-30	CK5A/CK5BT060*	42,000	TXV	14.00	14.00	12.00
	CC5A/CD5AA042	40,000	TXV	13.30	13.30	11.70
	CC5A/CD5AA060	41,500	TXV	13.30	13.30	11.70
	CC5A/CD5AC048	40,500	TXV	13.30	13.30	11.55

See notes on pg. 13.

Combination ratings continued

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
042-30	CC5A/CD5AW042	40,000	TXV	13.30	13.30	11.60
	CC5A/CD5AW048	41,000	TXV	13.50	13.50	11.70
	CC5A/CD5AW060	42,000	TXV	13.50	13.50	11.95
	CD5AA048	41,000	TXV	13.40	13.40	11.70
	CE3AA042	40,000	TXV	13.30	13.30	11.75
	CE3AA048	41,000	TXV	13.50	13.50	11.80
	CE3AA060	41,000	TXV	14.00	14.00	12.00
	CF5AA048	41,000	TXV	13.40	13.40	11.70
	CG5AA048	41,000	TXV	13.40	13.40	11.70
	CK3BA042	40,000	TXV	13.30	13.30	11.70
	CK3BA048	41,000	TXV	13.50	13.50	11.75
	CK3BA060	41,500	TXV	14.00	14.00	12.00
	CK5A/CK5BA042	40,000	TXV	13.30	13.30	11.70
	CK5A/CK5BA048	41,000	TXV	13.50	13.50	11.75
	CK5A/CK5BA060	42,000	TXV	14.00	14.00	12.00
	CK5A/CK5BN042	40,000	TXV	13.30	13.30	11.70
	CK5A/CK5BN048	40,500	TXV	13.50	13.50	11.75
	CK5A/CK5BN060	41,500	TXV	14.00	14.00	12.10
	CK5A/CK5BT042	40,000	TXV	13.30	13.30	11.70
	CK5A/CK5BT048	41,000	TXV	13.50	13.50	11.75
	CK5A/CK5BW048	41,000	TXV	13.50	13.50	11.75
	CK5A/CK5BX060	42,000	TXV	13.70	13.70	12.10
	F(A,B)4AN(F,B,C)042	40,000	TDR&TXV	13.20	13.20	11.50
	F(A,B)4AN(F,B,C)048	41,000	TDR&TXV	13.50	13.50	11.70
	F(A,B)4AN(F,B,C)060	42,000	TDR&TXV	13.20	13.20	11.60
	FB4ANB070	42,500	TDR&TXV	13.50	13.50	11.95
	FC4BN(F,B)042‡	40,000	TDR&TXV	13.20	13.20	11.50
	FC4BN(F,B)048‡	41,000	TDR&TXV	13.50	13.50	11.70
	FC4BN(F,B)060‡	42,000	TDR&TXV	13.20	13.20	11.60
	FC4BNB054‡	41,500	TDR&TXV	14.00	14.00	12.45
	FC4BNB070‡	42,500	TDR&TXV	13.50	13.50	11.95
	FG3AAA048	41,000	TXV	13.50	13.50	11.70
	FG3AAA060	41,000	TXV	13.50	13.50	11.85
	40FKA/FK4CNB006‡	42,000	TDR&TXV	15.00	15.00	13.60
	40FKA/FK4CNF003‡	40,000	TDR&TXV	14.20	14.20	12.65
	40FKA/FK4CNF005‡	41,500	TDR&TXV	15.00	15.00	13.20
	FV4ANB006	42,000	TDR&TXV	15.10	15.10	13.60
	FV4ANF003	40,000	TDR&TXV	14.30	14.30	12.65
	FV4ANF005	41,500	TDR&TXV	15.00	15.00	13.20
	FX4ANB060	42,000	TDR&TXV	13.50	13.50	11.95
	FX4ANF042	40,000	TDR&TXV	13.50	13.50	11.70
	FX4ANF048	41,000	TDR&TXV	13.60	13.60	11.90
	COILS + 58MVP040-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.00	14.00	12.15
	CC5A/CD5AW048	41,000	TDR&TXV	14.00	14.00	12.30
	CK5A/CK5BA042	40,000	TDR&TXV	14.00	14.00	12.20
	CK5A/CK5BW048	41,000	TDR&TXV	14.10	14.10	12.35
	COILS + 58MVP060-14 VARIABLE SPEED FURNACE					
	CK3BA042	40,000	TDR&TXV	14.00	14.00	12.20
	CK5A/CK5BN042	40,000	TDR&TXV	14.00	14.00	12.20
	CK5A/CK5BN048	40,000	TDR&TXV	14.00	14.00	12.20
	COILS + 58MVP080-14 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.00	14.00	12.30
	CC5A/CD5AC048	40,500	TDR&TXV	14.00	14.00	12.25
	CD5AA048	41,000	TDR&TXV	14.00	14.00	12.45
	CK3BA042	40,000	TDR&TXV	14.00	14.00	12.35
	CK3BA048	41,000	TDR&TXV	14.00	14.00	12.50
	CK5A/CK5BA042	40,000	TDR&TXV	14.00	14.00	12.35
	CK5A/CK5BA048	41,000	TDR&TXV	14.00	14.00	11.65
	COILS + 58MVP080-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.00	14.00	12.15
	CC5A/CD5AA060	41,000	TDR&TXV	14.00	14.00	12.25
	CC5A/CD5AC048	40,500	TDR&TXV	14.00	14.00	12.05
	CC5A/CD5AW060	42,000	TDR&TXV	14.50	14.50	12.60
	CD5AA048	41,000	TDR&TXV	14.00	14.00	12.25
	CK3BA042	40,000	TDR&TXV	14.00	14.00	12.20
	CK3BA048	41,000	TDR&TXV	14.00	14.00	12.35
	CK3BA060	41,500	TDR&TXV	14.00	14.00	12.60
	CK5A/CK5BA042	40,000	TDR&TXV	14.00	14.00	12.20
	CK5A/CK5BA048	41,000	TDR&TXV	14.00	14.00	12.35
	CK5A/CK5BA060	41,500	TDR&TXV	14.00	14.00	12.60
	CK5A/CK5BN060	42,000	TDR&TXV	14.00	14.00	12.70
	CK5A/CK5BX060	42,000	TDR&TXV	14.50	14.50	12.80
	COILS + 58MVP100-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.50	14.50	12.55
	CC5A/CD5AA060	41,000	TDR&TXV	14.50	14.50	12.65
	CC5A/CD5AC048	40,500	TDR&TXV	14.50	14.50	12.45
	CC5A/CD5AW060	42,000	TDR&TXV	15.00	15.00	12.95

See notes on pg. 13.

Combination ratings continued

UNIT SIZE-SERIES	INDOOR UNIT	TOT. CAP. BTUH	FACTORY-SUPPLIED ENHANCE-MENT	SEER Standard Rating	SEER Carrier Gas Furnace or Accessory TDR†	EER
042-30	CD5AA048	41,000	TDR&TXV	14.50	14.50	12.65
	CK3BA042	40,000	TDR&TXV	14.50	14.50	12.55
	CK3BA048	41,000	TDR&TXV	14.50	14.50	12.70
	CK3BA060	41,500	TDR&TXV	14.50	14.50	12.95
	CK5A/CK5BA042	40,000	TDR&TXV	14.50	14.50	12.55
	CK5A/CK5BA048	41,000	TDR&TXV	14.50	14.50	12.70
	CK5A/CK5BA060	41,500	TDR&TXV	14.50	14.50	12.95
	CK5A/CK5BN060	42,000	TDR&TXV	14.50	14.50	13.10
	CK5A/CK5BX060	42,000	TDR&TXV	15.00	15.00	13.15
	COILS + 58MVP120-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.50	14.50	12.55
	CC5A/CD5AA060	41,000	TDR&TXV	14.50	14.50	12.60
	CC5A/CD5AW048	41,000	TDR&TXV	14.50	14.50	12.60
	CC5A/CD5AW060	42,000	TDR&TXV	15.00	15.00	12.95
	CK3BA060	41,500	TDR&TXV	14.50	14.50	12.95
	CK5A/CK5BA042	40,000	TDR&TXV	14.50	14.50	12.55
	CK5A/CK5BA060	41,500	TDR&TXV	14.50	14.50	12.95
	CK5A/CK5BW048	41,000	TDR&TXV	14.50	14.50	12.70
	CK5A/CK5BX060	42,000	TDR&TXV	15.00	15.00	13.15
	COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.00	14.00	12.35
	CC5A/CD5AC048	40,500	TDR&TXV	14.00	14.00	12.30
	CD5AA048	41,000	TDR&TXV	14.00	14.00	12.45
	CK3BA042	40,000	TDR&TXV	14.00	14.00	12.40
	CK3BA048	41,000	TDR&TXV	14.50	14.50	12.55
	CK5A/CK5BA042	40,000	TDR&TXV	14.00	14.00	12.40
	CK5A/CK5BA048	41,000	TDR&TXV	14.50	14.50	12.55
	COILS + 58U(H,X)V100-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.50	14.50	12.70
	CC5A/CD5AA060	41,000	TDR&TXV	14.50	14.50	12.85
	CC5A/CD5AW048	41,000	TDR&TXV	14.50	14.50	12.80
	CC5A/CD5AW060	42,000	TDR&TXV	15.00	15.00	13.15
	CK3BA060	41,500	TDR&TXV	14.50	14.50	13.20
	CK5A/CK5BA042	40,000	TDR&TXV	14.50	14.50	12.70
	CK5A/CK5BA060	41,500	TDR&TXV	14.50	14.50	13.20
	CK5A/CK5BW048	41,000	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BX060	42,000	TDR&TXV	15.00	15.00	13.35
	COILS + 58U(H,X)V120-20 VARIABLE SPEED FURNACE					
	CC5A/CD5AA042	40,000	TDR&TXV	14.50	14.50	12.65
	CC5A/CD5AA060	41,000	TDR&TXV	14.50	14.50	12.85
	CC5A/CD5AW048	41,000	TDR&TXV	14.50	14.50	12.75
	CC5A/CD5AW060	42,000	TDR&TXV	15.00	15.00	13.20
	CK3BA060	41,500	TDR&TXV	14.50	14.50	13.20
	CK5A/CK5BA042	40,000	TDR&TXV	14.50	14.50	12.70
	CK5A/CK5BA060	41,500	TDR&TXV	14.50	14.50	13.20
	CK5A/CK5BW048	41,000	TDR&TXV	14.50	14.50	12.85
	CK5A/CK5BX060	42,000	TDR&TXV	15.00	15.00	13.40

* Tested combination

† In most cases, only 1 method should be used to achieve TDR function. Using more than 1 method in a system may cause degradation in performance. Use either the accessory Time-Delay Relay KAATD0101TDR or a furnace equipped with TDR. All Carrier furnaces are equipped with TDR except for the 58GFA.

‡ Ratings shown are with Puron® (R-410A) TXV replacing R-22 TXV.

EER — Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio
TDR — Time-Delay Relay
TXV — Thermostatic Expansion Valve

NOTES:
1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

Detailed cooling capacities*

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA024-30 Outdoor Section With CK5A/CK5BA036 Indoor Section																			
700	72	29.7	14.4	1.63	28.4	13.8	1.83	26.8	13.2	2.04	25.0	12.6	2.26	23.1	11.9	2.50	21.1	11.2	2.76
	67	27.2	17.9	1.64	26.0	17.4	1.83	24.7	16.8	2.04	23.2	16.2	2.26	21.5	15.5	2.50	19.8	14.8	2.76
	63††	25.4	17.5	1.64	24.2	16.9	1.83	23.1	16.4	2.03	21.8	15.8	2.26	20.5	15.2	2.50	19.0	14.6	2.76
	62	25.0	21.4	1.64	23.9	20.9	1.83	22.7	20.3	2.03	21.5	19.8	2.26	20.3	19.1	2.50	18.9	18.5	2.76
	57	23.8	23.8	1.64	22.9	22.9	1.83	21.9	21.9	2.03	21.0	21.0	2.25	19.9	19.9	2.50	18.8	18.8	2.76
800	72	30.3	15.0	1.67	28.7	14.4	1.86	27.0	13.7	2.07	25.1	13.1	2.29	23.1	12.3	2.53	21.4	11.8	2.79
	67	27.8	19.0	1.67	26.5	18.4	1.86	25.0	17.8	2.07	23.3	17.1	2.29	21.5	16.4	2.53	20.1	15.9	2.79
	63††	25.9	18.5	1.67	24.7	17.9	1.86	23.5	17.4	2.07	22.2	16.8	2.29	20.8	16.2	2.53	19.3	15.6	2.80
	62	25.6	23.0	1.67	24.5	22.4	1.86	23.2	21.8	2.07	22.0	21.2	2.29	20.8	20.6	2.53	19.4	19.4	2.80
	57	24.8	24.8	1.67	23.9	23.9	1.86	22.9	22.9	2.07	21.8	21.8	2.29	20.7	20.7	2.53	19.5	19.5	2.80
900	72	30.8	15.6	1.70	28.9	14.9	1.89	27.1	14.2	2.10	25.1	13.6	2.32	23.3	12.9	2.56	21.5	12.3	2.83
	67	28.3	20.0	1.70	27.0	19.5	1.90	25.2	18.8	2.10	23.4	18.1	2.32	21.8	17.5	2.56	20.2	16.9	2.83
	63††	26.4	19.5	1.71	25.1	18.9	1.90	23.8	18.4	2.10	22.5	17.8	2.33	21.1	17.2	2.57	19.5	16.5	2.83
	62	26.1	24.4	1.71	24.9	23.8	1.90	23.7	23.2	2.10	22.3	22.3	2.32	21.3	21.3	2.57	20.0	20.0	2.83
	57	25.7	25.7	1.71	24.7	24.7	1.90	23.7	23.7	2.10	22.4	22.4	2.32	21.2	21.2	2.57	20.0	20.0	2.84

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
CC5AA	024	0.96	1.00
	030	0.98	1.00
CC5AW	024	0.96	1.00
	030	0.98	1.00
CC5A/CD5AA	036	1.00	1.00
CD5AW	036	1.00	1.00
CE3AA	024	0.96	1.00
	030	0.98	1.00
	036	1.00	1.00
CF5AA	024	0.96	1.00
	036	1.00	1.00
CG5AA	024	0.96	1.00
	036	1.00	1.00
CK3BA	024	0.96	1.00
	030	0.98	1.00
	036	1.00	1.00
CK5A/CK5BA	024	0.96	1.00
	030	0.98	1.00
	036	1.00	1.00
CK5A/CK5BN	036	1.00	1.00
CK5A/CK5BT	036	1.00	1.00
CK5A/CK5BW	024	0.96	1.00
	030	0.98	1.00
	036	1.00	1.00
F(A,B)4AN(F,C)	024	0.96	0.99
	030	0.98	0.99
	036	1.00	1.02
FC4BNF	024	0.96	0.99
	030	0.98	0.99
	036	1.00	1.02
FG3AAA	024	0.96	1.00
	036	1.00	1.00
FK4CNF	001	0.96	0.92
40FKA/FK4CNF	002	0.98	0.92
	003	1.00	0.90
FV4ANF	002	0.98	0.92
	003	1.00	0.90

Indoor Section	Size	Cooling Capacity	Cooling Power
FX4ANF	030	0.98	0.99
	036	1.00	1.02
COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CC5A/CD5AW	030	0.98	0.94
	036	1.00	0.93
CK5A/CK5BW	030	0.98	0.94
	036	1.00	0.93
COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	036	1.00	0.94
CC5A/CD5AW	024	0.96	0.94
	030	0.98	0.94
CK3BA	024	0.96	0.94
	030	0.98	0.94
	036	1.00	0.94
CK5A/CK5BA	036	1.00	0.94
CK5A/CK5BW	024	0.96	0.94
	030	0.98	0.94
COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AW	024	0.96	0.93
	030	0.98	0.92
	036	1.00	0.92
CK5A/CK5BW	024	0.96	0.93
	030	0.98	0.92
	036	1.00	0.92
COILS + 58U(H,X)V060-12 VARIABLE SPEED FURNACE			
CC5A/CD5AA	024	0.96	0.92
	030	0.98	0.92
	036	1.00	0.91
CC5A/CD5AW	030	0.98	0.92
CK3BA	024	0.96	0.92
	030	0.98	0.92
	036	1.00	0.91
CK5A/CK5BA	024	0.96	0.92
	030	0.98	0.92
	036	1.00	0.91
CK5A/CK5BN	036	1.00	0.92
CK5A/CK5BW	030	0.98	0.92

See notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA030-30 Outdoor Section With CK5A/CK5BA042 Indoor Section																			
875	72	35.9	17.8	2.00	34.1	17.2	2.21	32.0	16.4	2.44	29.7	15.6	2.70	27.4	14.8	2.98	25.2	14.0	3.29
	67	33.1	22.7	1.99	31.5	22.1	2.20	29.8	21.4	2.44	28.0	20.7	2.70	26.1	19.9	2.98	23.9	19.1	3.29
	63††	30.8	22.1	1.98	29.3	21.4	2.19	27.7	20.7	2.43	26.1	20.0	2.69	24.2	19.2	2.97	22.5	18.5	3.29
	62	30.4	27.5	1.98	29.1	26.9	2.19	27.6	26.2	2.43	26.1	25.4	2.69	24.4	24.4	2.98	22.8	22.8	3.29
	57	29.6	29.6	1.98	28.4	28.4	2.19	27.1	27.1	2.42	25.8	25.8	2.68	24.3	24.3	2.97	22.9	22.9	3.29
1000	72	36.5	18.6	2.05	34.4	17.9	2.26	32.1	17.1	2.49	29.6	16.2	2.74	27.7	15.5	3.02	25.4	14.8	3.34
	67	33.7	24.1	2.04	32.0	23.5	2.25	30.0	22.7	2.48	28.1	21.9	2.74	26.1	21.1	3.02	23.8	20.3	3.33
	63††	31.3	23.4	2.03	29.8	22.7	2.24	28.1	22.0	2.47	26.4	21.3	2.73	24.5	20.5	3.02	22.8	19.8	3.34
	62	31.0	29.5	2.03	29.8	28.8	2.24	28.3	28.0	2.48	26.8	26.8	2.74	25.2	25.2	3.03	23.5	23.5	3.34
	57	30.7	30.7	2.03	29.4	29.4	2.24	28.1	28.1	2.47	26.6	26.6	2.74	25.0	25.0	3.02	23.5	23.5	3.34
1125	72	36.7	19.3	2.10	34.5	18.5	2.30	32.1	17.7	2.53	29.9	16.9	2.79	27.8	16.2	3.07	25.6	15.5	3.38
	67	33.9	25.4	2.09	32.1	24.7	2.30	30.1	23.9	2.53	28.1	23.1	2.78	26.0	22.3	3.07	23.6	21.4	3.37
	63††	31.7	24.7	2.08	30.1	24.0	2.29	28.4	23.3	2.52	26.7	22.5	2.78	24.8	21.7	3.07	23.0	20.9	3.39
	62	31.7	31.2	2.08	30.2	30.2	2.29	28.8	28.8	2.52	27.5	27.5	2.79	25.9	25.9	3.08	24.0	24.0	3.39
	57	31.6	31.6	2.08	30.3	30.3	2.29	28.9	28.9	2.53	27.4	27.4	2.79	25.7	25.7	3.07	24.1	24.1	3.39

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
CC5A/CD5AA	030	0.97	1.00
	036	0.99	1.00
	042	1.00	1.00
CC5A/CD5AW	030	0.97	1.00
	042	1.00	1.00
	036	0.99	1.00
CE3AA	030	0.97	1.00
	036	0.99	1.00
	042	1.00	1.00
CF5AA	036	0.99	1.00
CG5AA	036	0.99	1.00
CK3BA	030	0.97	1.00
	036	0.99	1.00
	042	1.00	1.00
CK5A/CK5BA	030	0.97	1.00
	036	0.99	1.00
	042	1.00	1.00
CK5A/CK5BN	036	0.99	1.00
	042	1.00	1.00
CK5A/CK5BT	036	0.99	1.00
	042	1.00	1.00
CK5A/CK5BW	030	0.97	1.00
	036	0.99	1.00
F(A,B)4AN(F,B,C)	042	1.00	1.03
F(A,B)4AN(F,C)	030	0.97	0.98
	036	0.99	1.02
FC4BN(F,B)	042	1.00	1.03
FC4BNF	030	0.97	0.98
	036	0.99	1.02
FG3AAA	036	0.99	1.00
FK4CNF	001	0.97	0.92
40FKA/FK4CNF	002	0.99	0.92
	003	0.99	0.90
	005	1.00	0.90
FV4ANF	002	0.99	0.92
	003	0.99	0.90
	005	1.00	0.90

Indoor Section	Size	Cooling Capacity	Cooling Power
FX4ANF	030	0.97	0.99
	036	0.99	1.02
	042	1.00	1.03
COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.94
CC5A/CD5AW	030	0.97	0.96
CD5AW	036	0.99	0.95
CK5A/CK5BA	042	1.00	0.94
CK5A/CK5BW	030	0.97	0.96
	036	0.99	0.94
COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	036	0.99	0.95
CC5A/CD5AW	030	0.97	0.96
CK3BA	030	0.97	0.96
	036	0.99	0.95
	042	1.00	0.95
CK5A/CK5BA	036	0.99	0.95
CK5A/CK5BN	042	1.00	0.95
CK5A/CK5BW	030	0.97	0.96
COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.94
CC5A/CD5AW	030	0.97	0.95
CD5AW	036	0.99	0.94
CK5A/CK5BA	042	1.00	0.94
CK5A/CK5BW	030	0.97	0.95
	036	0.99	0.94
COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.95
CC5A/CD5AW	030	0.97	0.96
CD5AW	036	0.99	0.95
CK3BA	042	1.00	0.95
CK5A/CK5BA	042	1.00	0.95
CK5A/CK5BW	030	0.97	0.96
	036	0.99	0.95
	—	—	—

See notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys KW**	Capacity MBtuh†		Total Sys KW**	Capacity MBtuh†		Total Sys KW**	Capacity MBtuh†		Total Sys KW**	Capacity MBtuh†		Total Sys KW**	Capacity MBtuh†		Total Sys KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TSA030-30 Outdoor Section With CK5A/CK5BA042 Indoor Section continued																			
875	72	35.9	17.8	2.00	34.1	17.2	2.21	32.0	16.4	2.44	29.7	15.6	2.70	27.4	14.8	2.98	25.2	14.0	3.29
	67	33.1	22.7	1.99	31.5	22.1	2.20	29.8	21.4	2.44	28.0	20.7	2.70	26.1	19.9	2.98	23.9	19.1	3.29
	63††	30.8	22.1	1.98	29.3	21.4	2.19	27.7	20.7	2.43	26.1	20.0	2.69	24.2	19.2	2.97	22.5	18.5	3.29
	62	30.4	27.5	1.98	29.1	26.9	2.19	27.6	26.2	2.43	26.1	25.4	2.69	24.4	24.4	2.98	22.8	22.8	3.29
	57	29.6	29.6	1.98	28.4	28.4	2.19	27.1	27.1	2.42	25.8	25.8	2.68	24.3	24.3	2.97	22.9	22.9	3.29
1000	72	36.5	18.6	2.05	34.4	17.9	2.26	32.1	17.1	2.49	29.6	16.2	2.74	27.7	15.5	3.02	25.4	14.8	3.34
	67	33.7	24.1	2.04	32.0	23.5	2.25	30.0	22.7	2.48	28.1	21.9	2.74	26.1	21.1	3.02	23.8	20.3	3.33
	63††	31.3	23.4	2.03	29.8	22.7	2.24	28.1	22.0	2.47	26.4	21.3	2.73	24.5	20.5	3.02	22.8	19.8	3.34
	62	31.0	29.5	2.03	29.8	28.8	2.24	28.3	28.0	2.48	26.8	26.8	2.74	25.2	25.2	3.03	23.5	23.5	3.34
	57	30.7	30.7	2.03	29.4	29.4	2.24	28.1	28.1	2.47	26.6	26.6	2.74	25.0	25.0	3.02	23.5	23.5	3.34
1125	72	36.7	19.3	2.10	34.5	18.5	2.30	32.1	17.7	2.53	29.9	16.9	2.79	27.8	16.2	3.07	25.6	15.5	3.38
	67	33.9	25.4	2.09	32.1	24.7	2.30	30.1	23.9	2.53	28.1	23.1	2.78	26.0	22.3	3.07	23.6	21.4	3.37
	63††	31.7	24.7	2.08	30.1	24.0	2.29	28.4	23.3	2.52	26.7	22.5	2.78	24.8	21.7	3.07	23.0	20.9	3.39
	62	31.7	31.2	2.08	30.2	30.2	2.29	28.8	28.8	2.52	27.5	27.5	2.79	25.9	25.9	3.08	24.0	24.0	3.39
	57	31.6	31.6	2.08	30.3	30.3	2.29	28.9	28.9	2.53	27.4	27.4	2.79	25.7	25.7	3.07	24.1	24.1	3.39

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.92
CC5A/CD5AW	030	0.97	0.93
CD5AW	036	0.99	0.93
CK3BA	042	1.00	0.92
CK5A/CK5BA	042	1.00	0.92
CK5A/CK5BW	030	0.97	0.93
	036	0.99	0.93
COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.93
CD5AW	036	0.99	0.93
CK5A/CK5BA	042	1.00	0.93
CK5A/CK5BW	036	0.99	0.93
COILS + 58U(H,X)V060-12 VARIABLE SPEED FURNACE			
CC5A/CD5AA	030	0.97	0.93
	036	0.99	0.92

Indoor Section	Size	Cooling Capacity	Cooling Power
CC5A/CD5AW	030	0.97	0.93
CK3BA	030	0.97	0.93
	036	0.99	0.92
CK5A/CK5BA	030	0.97	0.93
	036	0.99	0.92
CK5A/CK5BN	036	0.99	0.93
CK5A/CK5BW	030	0.97	0.93
COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	1.00	0.91
CC5A/CD5AW	030	0.97	0.92
CD5AW	036	0.99	0.91
CK3BA	042	1.00	0.91
CK5A/CK5BA	042	1.00	0.91
CK5A/CK5BW	030	0.97	0.92
	036	0.99	0.91
	—	—	—

See notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA036-30 Outdoor Section With CK5A/CK5BT048 Indoor Section																			
1050	72	43.0	21.2	2.37	40.7	20.3	2.64	38.0	19.4	2.93	35.2	18.4	3.24	32.5	17.4	3.59	29.5	16.4	3.96
	67	39.5	26.9	2.37	37.6	26.1	2.64	35.6	25.3	2.93	33.4	24.4	3.26	31.0	23.4	3.60	28.3	22.4	3.97
	63††	36.9	26.2	2.37	35.1	25.4	2.64	33.2	24.6	2.93	31.2	23.7	3.25	28.9	22.7	3.59	26.4	21.6	3.96
	62	36.5	32.6	2.37	34.7	31.7	2.64	32.9	30.9	2.93	30.9	29.9	3.25	28.9	28.8	3.59	26.7	26.7	3.96
	57	35.4	35.4	2.37	33.9	33.9	2.64	32.4	32.4	2.93	30.8	30.8	3.25	28.9	28.9	3.59	26.8	26.8	3.96
1200	72	43.6	22.1	2.42	41.1	21.2	2.69	38.4	20.2	2.98	35.4	19.2	3.29	32.7	18.2	3.64	30.1	17.3	4.02
	67	40.1	28.5	2.42	38.1	27.7	2.69	36.0	26.8	2.99	33.7	25.9	3.31	31.2	25.0	3.65	28.4	23.9	4.02
	63††	37.5	27.7	2.42	35.6	26.9	2.69	33.6	26.0	2.98	31.5	25.1	3.30	29.1	24.1	3.65	26.5	23.0	4.01
	62	37.1	34.8	2.42	35.4	33.9	2.69	33.6	33.0	2.98	31.7	31.7	3.30	29.7	29.7	3.65	27.4	27.4	4.02
	57	36.6	36.6	2.42	35.1	35.1	2.69	33.5	33.5	2.99	31.7	31.7	3.31	29.8	29.8	3.65	27.5	27.5	4.02
1350	72	44.0	22.9	2.48	41.4	22.0	2.74	38.6	21.0	3.03	35.6	19.9	3.35	33.2	19.1	3.70	30.5	18.2	4.08
	67	40.5	29.9	2.48	38.5	29.1	2.74	36.3	28.3	3.04	33.9	27.4	3.36	31.4	26.4	3.71	28.5	25.3	4.08
	63††	37.9	29.1	2.48	36.0	28.3	2.74	33.9	27.4	3.04	31.7	26.4	3.36	29.3	25.4	3.70	26.6	24.3	4.06
	62	37.8	36.8	2.48	36.1	35.8	2.74	34.3	34.3	3.04	32.4	32.4	3.36	30.3	30.3	3.70	27.9	27.9	4.07
	57	37.7	37.7	2.48	36.1	36.1	2.74	34.4	34.4	3.04	32.5	32.5	3.36	30.4	30.4	3.71	28.0	28.0	4.08

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
CK5A/CK5BT*	048	1.00	1.00
CC5A/CD5AA	036	0.97	1.00
	042	0.99	1.00
CC5A/CD5AC	048	0.99	1.00
CC5A/CD5AW	036	0.97	1.00
	042	0.99	1.00
CD5A/CD5AW	048	0.99	1.00
CD5AA	048	1.00	1.00
CE3AA	036	0.97	1.00
	042	0.99	1.00
	048	1.00	1.00
CF5AA	036	0.97	1.00
	048	1.00	1.00
CG5AA	036	0.97	1.00
	048	1.00	1.00
CK3BA	036	0.97	1.00
	042	0.99	1.00
	048	1.00	1.00
CK5A/CK5BA	036	0.97	1.00
	042	0.99	1.00
	048	1.00	1.00
CK5A/CK5BN	036	0.97	0.98
	042	0.97	1.00
CK5A/CK5BT	042	0.99	1.00
CK5A/CK5BW	036	0.97	1.00
	048	1.00	1.00
F(A,B)4AN(F,B,C)	048	1.00	1.02
F(A,B)4AN(F,C)	036	0.97	1.02
FC4BN(F,B)	048	1.00	1.02
FC4BNF	036	0.97	1.02
FG3AAA	036	0.97	1.00
	048	1.00	1.00
F(A,B)4AN(F,B,C)	042	0.99	1.01
FC4BN(F,B)	042	0.99	1.01
FC4BNB	054	1.00	0.99
40FKA/FK4CNB	006	1.01	0.90
FK4CNF	001	0.97	0.94
40FKA/FK4CNF	002	0.99	0.95
	003	0.99	0.91
	005	1.00	0.91

Indoor Section	Size	Cooling Capacity	Cooling Power
FV4ANB	006	1.01	0.90
FV4ANF	002	0.99	0.95
	003	0.99	0.91
	005	1.00	0.91
FX4ANF	036	0.97	1.02
	042	0.99	1.01
	048	1.00	1.02
COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.99	0.93
CD5AW	036	0.97	0.93
CK5A/CK5BA	042	0.99	0.93
CK5A/CK5BW	036	0.97	0.93
	048	1.00	0.93
COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	036	0.97	0.94
CK3BA	036	0.97	0.94
	042	0.99	0.93
CK5A/CK5BA	036	0.97	0.94
CK5A/CK5BN	042	0.99	0.93
	048	1.00	0.94
COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.99	0.92
CC5A/CD5AC	048	0.99	0.92
CD5AA	042	1.00	0.92
CD5AW	036	0.97	0.93
CK5A/CK5BA	042	0.99	0.92
	048	1.00	0.92
CK3BA	042	0.99	0.92
	048	1.00	0.92
COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.99	0.93
CC5A/CD5AC	048	0.99	0.93
CD5AA	048	1.00	0.93
CD5AW	036	0.97	0.94
CK3BA	042	0.99	0.93
	048	1.00	0.93
CK5A/CK5BA	042	0.99	0.93
	048	1.00	0.93
CK5A/CK5BW	036	0.97	0.94
	—	—	—

See notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA036-30 Outdoor Section With CK5A/CK5BA048 Indoor Section continued																			
1050	72	43.0	21.2	2.37	40.7	20.3	2.64	38.0	19.4	2.93	35.2	18.4	3.24	32.5	17.4	3.59	29.5	16.4	3.96
	67	39.5	26.9	2.37	37.6	26.1	2.64	35.6	25.3	2.93	33.4	24.4	3.26	31.0	23.4	3.60	28.3	22.4	3.97
	63††	36.9	26.2	2.37	35.1	25.4	2.64	33.2	24.6	2.93	31.2	23.7	3.25	28.9	22.7	3.59	26.4	21.6	3.96
	62	36.5	32.6	2.37	34.7	31.7	2.64	32.9	30.9	2.93	30.9	29.9	3.25	28.9	28.8	3.59	26.7	26.7	3.96
	57	35.4	35.4	2.37	33.9	33.9	2.64	32.4	32.4	2.93	30.8	30.8	3.25	28.9	28.9	3.59	26.8	26.8	3.96
1200	72	43.6	22.1	2.42	41.1	21.2	2.69	38.4	20.2	2.98	35.4	19.2	3.29	32.7	18.2	3.64	30.1	17.3	4.02
	67	40.1	28.5	2.42	38.1	27.7	2.69	36.0	26.8	2.99	33.7	25.9	3.31	31.2	25.0	3.65	28.4	23.9	4.02
	63††	37.5	27.7	2.42	35.6	26.9	2.69	33.6	26.0	2.98	31.5	25.1	3.30	29.1	24.1	3.65	26.5	23.0	4.01
	62	37.1	34.8	2.42	35.4	33.9	2.69	33.6	33.0	2.98	31.7	31.7	3.30	29.7	29.7	3.65	27.4	27.4	4.02
	57	36.6	36.6	2.42	35.1	35.1	2.69	33.5	33.5	2.99	31.7	31.7	3.31	29.8	29.8	3.65	27.5	27.5	4.02
1350	72	44.0	22.9	2.48	41.4	22.0	2.74	38.6	21.0	3.03	35.6	19.9	3.35	33.2	19.1	3.70	30.5	18.2	4.08
	67	40.5	29.9	2.48	38.5	29.1	2.74	36.3	28.3	3.04	33.9	27.4	3.36	31.4	26.4	3.71	28.5	25.3	4.08
	63††	37.9	29.1	2.48	36.0	28.3	2.74	33.9	27.4	3.04	31.7	26.4	3.36	29.3	25.4	3.70	26.6	24.3	4.06
	62	37.8	36.8	2.48	36.1	35.8	2.74	34.3	34.3	3.04	32.4	32.4	3.36	30.3	30.3	3.70	27.9	27.9	4.07
	57	37.7	37.7	2.48	36.1	36.1	2.74	34.4	34.4	3.04	32.5	32.5	3.36	30.4	30.4	3.71	28.0	28.0	4.08

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power	Indoor Section	Size	Cooling Capacity	Cooling Power
COILS + 58MVP100-20 VARIABLE SPEED FURNACE				**COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE**			
CC5A/CD5AA	042	0.99	0.91	**CC5A/CD5AA**	042	0.99	0.93
CC5A/CD5AC	048	0.99	0.91	**CC5A/CD5AC**	048	0.99	0.92
CD3AA	048	1.00	0.91	**CC5A/CD5AW**	048	1.00	0.91
CD5AW	036	0.97	0.92	**CD5AA**	048	1.00	0.92
CK3BA	042	0.99	0.91	**CD5AW**	036	0.97	0.93
	048	1.00	0.91	**CK3BA**	042	0.99	0.93
CK5A/CK5BA	042	0.99	0.91		048	1.00	0.92
CK5A/CK5BA	048	1.00	0.91	**CK5A/CK5BA**	042	0.99	0.93
CK5A/CK5BW	036	0.97	0.92	**CK5A/CK5BW**	036	0.97	0.93
COILS + 58MVP120-20 VARIABLE SPEED FURNACE				**COILS + 58U(H,X)V100-20 VARIABLE SPEED FURNACE**			
CC5A/CD5AA	042	0.99	0.92	**CC5A/CD5AA**	042	0.99	0.91
CC5A/CD5AW	048	1.00	0.92	**CC5A/CD5AW**	048	1.00	0.90
CD5AW	036	0.97	0.92	**CD5AW**	036	0.97	0.91
CK3BA	036	0.97	0.94	**CK5A/CK5BA**	042	0.99	0.91
CK5A/CK5BW	036	0.97	0.92	**CK5A/CK5BW**	036	0.97	0.91
	048	1.00	0.92		048	1.00	0.90
COILS + 58U(H,X)V060-12 VARIABLE SPEED FURNACE				**COILS + 58U(H,X)V120-20 VARIABLE SPEED FURNACE**			
CC5A/CK5AA	036	0.97	0.94	**CC5A/CD5AA**	042	0.99	0.91
CK5A/CK5BA	036	0.97	0.94	**CD5AW**	036	0.97	0.92
CK5A/CK5BN	036	0.97	0.95	**CK5A/CK5BA**	042	0.99	0.91
				CK5A/CK5BW	036	0.97	0.92
					048	1.00	0.91

See notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA042-30 Outdoor Section With CK5A/CK5B060 Indoor Section																			
1225	72	50.0	24.9	2.81	47.4	23.9	3.12	44.7	23.0	3.45	41.8	21.9	3.82	38.6	20.8	4.22	35.5	19.7	4.67
	67	46.6	32.0	2.79	44.3	31.0	3.09	41.9	30.1	3.43	39.3	29.0	3.80	36.6	28.0	4.21	33.5	26.7	4.66
	63††	43.5	31.2	2.76	41.3	30.2	3.07	39.1	29.2	3.40	36.8	28.2	3.78	34.2	27.1	4.19	31.8	26.1	4.65
	62	42.9	38.8	2.76	40.9	37.8	3.06	38.7	36.8	3.40	36.5	35.7	3.78	34.2	34.2	4.19	32.2	32.2	4.65
	57	41.8	41.8	2.75	40.1	40.1	3.06	38.3	38.3	3.40	36.4	36.4	3.78	34.3	34.3	4.19	32.3	32.3	4.66
1400	72	50.6	26.0	2.89	47.9	25.0	3.19	44.7	23.9	3.52	41.5	22.8	3.88	38.1	21.6	4.28	35.5	20.7	4.74
	67	47.3	33.9	2.86	44.9	32.9	3.16	42.0	31.8	3.49	39.3	30.8	3.86	36.3	29.6	4.27	33.6	28.6	4.72
	63††	44.2	33.0	2.83	41.9	32.0	3.14	39.6	31.0	3.47	37.1	30.0	3.85	34.5	28.8	4.25	32.0	27.8	4.71
	62	43.8	41.5	2.83	41.7	40.5	3.13	39.5	39.3	3.47	37.4	37.4	3.85	35.2	35.2	4.26	33.0	33.0	4.72
	57	43.3	43.3	2.82	41.5	41.5	3.13	39.5	39.5	3.47	37.5	37.5	3.85	35.2	35.2	4.27	33.1	33.1	4.73
1575	72	51.1	27.0	2.95	48.3	26.0	3.26	44.5	24.7	3.58	41.8	23.8	3.95	38.5	22.7	4.35	35.5	21.7	4.80
	67	47.8	35.8	2.93	45.3	34.8	3.23	42.0	33.5	3.56	39.2	32.4	3.93	36.6	31.5	4.34	33.7	30.3	4.79
	63††	44.7	34.7	2.90	42.4	33.7	3.20	39.9	32.7	3.54	37.4	31.6	3.91	34.6	30.5	4.32	32.1	29.4	4.78
	62	44.6	44.0	2.90	42.5	42.5	3.21	40.5	40.5	3.55	38.3	38.3	3.92	35.9	35.9	4.34	33.6	33.6	4.80
	57	44.6	44.6	2.90	42.6	42.6	3.21	40.6	40.6	3.55	38.4	38.4	3.93	36.0	36.0	4.34	33.7	33.7	4.80

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
CK5A/CK5BT*	060	1.00	1.00
CC5A/CD5AA	042	0.95	1.00
	060	0.99	1.00
CC5A/CD5AC	048	0.96	1.00
CC5A/CD5AW	042	0.95	1.00
	048	0.98	1.00
	060	1.00	1.00
CD5AA	048	0.98	1.00
CE3AA	042	0.95	1.00
	048	0.98	1.00
	060	0.98	1.00
CF5AA	048	0.98	1.00
CG5AA	048	0.98	1.00
CK3BA	042	0.95	1.00
	048	0.98	1.00
	060	0.99	1.00
CK5A/CK5BA	042	0.95	1.00
	048	0.98	1.00
	060	1.00	1.00
CK5A/CK5BN	042	0.95	1.00
	048	0.96	1.00
	060	0.99	1.00
CK5A/CK5BT	042	0.95	1.00
	048	0.98	1.00
CK5A/CK5BW	048	0.98	1.00
CK5A/CK5BX	060	1.00	1.00
F(A,B)4AN(F,B,C)	042	0.95	1.01
	048	0.98	1.01
	060	1.00	1.04
FB4ANB	070	1.01	1.02
FC4BN(F,B)	042	0.95	1.01
	048	0.98	1.01
	060	1.00	1.04
FC4BNB	054	0.99	0.99
	070	1.01	1.02
FG3AAA	048	0.98	1.00
	060	0.98	1.00
40FKA/FK4CNB	006	1.00	0.91
40FKA/FK4CNF	003	0.95	0.92
	005	0.99	0.92

Indoor Section	Size	Cooling Capacity	Cooling Power
FV4ANB	006	1.00	0.91
FV4ANF	003	0.95	0.92
	005	0.99	0.92
FX4ANB	060	1.00	1.02
FX4ANF	042	0.95	1.01
	048	0.98	1.02
COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.95
CC5A/CD5AW	048	0.98	0.94
CK5A/CK5BA	042	0.95	0.95
CK5A/CK5BW	048	0.98	0.94
COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CK3BA	042	0.95	0.95
CK5A/CK5BN	042	0.95	0.95
	048	0.95	0.95
COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.94
CC5A/CD5AC	048	0.96	0.93
CD5AA	048	0.98	0.93
CK3BA	042	0.95	0.94
	048	0.98	0.93
CK5A/CK5BA	042	0.95	0.94
	048	0.98	1.00
COILS + 58MVP080-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.95
	060	0.98	0.94
CC5A/CD5AC	048	0.96	0.94
CC5A/CD5AW	060	1.00	0.94
CD5AA	048	0.98	0.94
CK3BA	042	0.95	0.95
	048	0.98	0.94
	060	0.99	0.95
CK5A/CK5BA	042	0.95	0.95
	048	0.98	0.94
	060	0.99	0.95
CK5A/CK5BN	060	1.00	0.95
CK5A/CK5BX	060	1.00	0.94
	—	—	—

Notes on pg. 20.

Detailed cooling capacities* continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75			85			95			105			115			125		
		Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys	Capacity MBtuh†		Total Sys
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
38TSA042-30 Outdoor Section With CK5A/CK5B060 Indoor Section continued																			
1225	72	50.0	24.9	2.81	47.4	23.9	3.12	44.7	23.0	3.45	41.8	21.9	3.82	38.6	20.8	4.22	35.5	19.7	4.67
	67	46.6	32.0	2.79	44.3	31.0	3.09	41.9	30.1	3.43	39.3	29.0	3.80	36.6	28.0	4.21	33.5	26.7	4.66
	63††	43.5	31.2	2.76	41.3	30.2	3.07	39.1	29.2	3.40	36.8	28.2	3.78	34.2	27.1	4.19	31.8	26.1	4.65
	62	42.9	38.8	2.76	40.9	37.8	3.06	38.7	36.8	3.40	36.5	35.7	3.78	34.2	34.2	4.19	32.2	32.2	4.65
	57	41.8	41.8	2.75	40.1	40.1	3.06	38.3	38.3	3.40	36.4	36.4	3.78	34.3	34.3	4.19	32.3	32.3	4.66
1400	72	50.6	26.0	2.89	47.9	25.0	3.19	44.7	23.9	3.52	41.5	22.8	3.88	38.1	21.6	4.28	35.5	20.7	4.74
	67	47.3	33.9	2.86	44.9	32.9	3.16	42.0	31.8	3.49	39.3	30.8	3.86	36.3	29.6	4.27	33.6	28.6	4.72
	63††	44.2	33.0	2.83	41.9	32.0	3.14	39.6	31.0	3.47	37.1	30.0	3.85	34.5	28.8	4.25	32.0	27.8	4.71
	62	43.8	41.5	2.83	41.7	40.5	3.13	39.5	39.3	3.47	37.4	37.4	3.85	35.2	35.2	4.26	33.0	33.0	4.72
	57	43.3	43.3	2.82	41.5	41.5	3.13	39.5	39.5	3.47	37.5	37.5	3.85	35.2	35.2	4.27	33.1	33.1	4.73
1575	72	51.1	27.0	2.95	48.3	26.0	3.26	44.5	24.7	3.58	41.8	23.8	3.95	38.5	22.7	4.35	35.5	21.7	4.80
	67	47.8	35.8	2.93	45.3	34.8	3.23	42.0	33.5	3.56	39.2	32.4	3.93	36.6	31.5	4.34	33.7	30.3	4.79
	63††	44.7	34.7	2.90	42.4	33.7	3.20	39.9	32.7	3.54	37.4	31.6	3.91	34.6	30.5	4.32	32.1	29.4	4.78
	62	44.6	44.0	2.90	42.5	42.5	3.21	40.5	40.5	3.55	38.3	38.3	3.92	35.9	35.9	4.34	33.6	33.6	4.80
	57	44.6	44.6	2.90	42.6	42.6	3.21	40.6	40.6	3.55	38.4	38.4	3.93	36.0	36.0	4.34	33.7	33.7	4.80

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling Capacity	Cooling Power
COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.92
	060	0.98	0.92
CC5A/CD5AC	048	0.96	0.92
CC5A/CD5AW	060	1.00	0.92
CD5AA	048	0.98	0.92
CK3BA	042	0.95	0.92
	048	0.98	0.92
	060	0.99	0.92
CK5A/CK5BA	042	0.95	0.92
	048	0.98	0.92
	060	0.99	0.92
CK5A/CK5BN	060	1.00	0.92
CK5A/CK5BX	060	1.00	0.92
COILS + 58MVP120-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.93
	060	0.98	0.92
CC5A/CD5AW	048	0.98	0.92
	060	1.00	0.92
CK3BA	060	0.99	0.92
CK5A/CK5BA	042	0.95	0.93
	060	0.99	0.92
CK5A/CK5BW	048	0.98	0.92
CK5A/CK5BX	060	1.00	0.92
COILS + 58U(H,X)V080-16 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.94

Indoor Section	Size	Cooling Capacity	Cooling Power
CC5A/CD5AC	048	0.96	0.93
CD5AA	048	0.98	0.93
CK3BA	042	0.95	0.94
	048	0.98	0.93
CK5A/CK5BA	042	0.95	0.94
	048	0.98	0.93
COILS + 58U(H,X)V100-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.92
	060	0.98	0.91
CC5A/CD5AW	048	0.98	0.91
	060	1.00	0.91
CK3BA	060	0.99	0.91
CK5A/CK5BA	042	0.95	0.92
	060	0.99	0.91
CK5A/CK5BW	048	0.98	0.92
CK5A/CK5BX	060	1.00	0.91
COILS + 58U(H,X)V120-20 VARIABLE SPEED FURNACE			
CC5A/CD5AA	042	0.95	0.92
	060	0.98	0.91
CC5A/CD5AW	048	0.98	0.92
	060	1.00	0.91
CK3BA	060	0.99	0.91
CK5A/CK5BA	042	0.95	0.92
	060	0.99	0.91
CK5A/CK5BW	048	0.98	0.92
CK5A/CK5BX	060	1.00	0.91

* 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 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 outdoor unit kilowatts only.

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

‡‡ Data are with FK4C R-22 TXV replaced with Puron® TXV.

Condenser only ratings*

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38TSA024-30									
30	TCG	22.7	21.5	20.3	19.1	17.9	16.7	15.4	14.1
	SDT	66.8	76.5	86.3	96.0	106.0	115.0	125.0	135.0
	KW	1.07	1.22	1.38	1.56	1.75	1.97	2.19	2.44
35	TCG	25.0	23.6	22.3	21.0	19.7	18.4	17.0	15.6
	SDT	67.9	77.6	87.2	96.9	107.0	116.0	126.0	135.0
	KW	1.06	1.22	1.38	1.56	1.76	1.97	2.20	2.45
40	TCG	27.4	25.9	24.5	23.1	21.6	20.2	18.7	17.1
	SDT	69.0	78.6	88.3	97.9	108.0	117.0	127.0	136.0
	KW	1.06	1.21	1.38	1.57	1.77	1.98	2.22	2.47
45	TCG	29.9	28.4	26.8	25.3	23.7	22.1	20.5	18.8
	SDT	70.2	79.8	89.4	99.0	109.0	118.0	128.0	137.0
	KW	1.05	1.21	1.38	1.57	1.77	1.99	2.23	2.48
50	TCG	32.7	31.0	29.3	27.6	25.9	24.2	22.4	20.6
	SDT	71.5	81.1	90.6	100.0	110.0	119.0	129.0	138.0
	KW	1.04	1.20	1.38	1.57	1.78	2.00	2.24	2.49
55	TCG	35.6	33.7	31.9	30.1	28.3	26.4	24.5	22.4
	SDT	72.9	82.4	91.9	101.0	111.0	120.0	130.0	139.0
	KW	1.04	1.20	1.38	1.57	1.78	2.00	2.25	2.51
38TSA030-30									
30	TCG	27.3	25.9	24.4	23.0	21.6	20.1	18.6	17.0
	SDT	67.5	77.2	86.9	96.6	106.0	116.0	126.0	135.0
	KW	1.28	1.44	1.63	1.84	2.08	2.34	2.64	2.96
35	TCG	30.0	28.4	26.9	25.3	23.7	22.1	20.5	18.8
	SDT	68.6	78.3	87.9	97.6	107.0	117.0	127.0	136.0
	KW	1.28	1.45	1.64	1.85	2.09	2.35	2.64	2.96
40	TCG	32.9	31.2	29.5	27.8	26.0	24.3	22.5	20.6
	SDT	69.8	79.4	89.1	98.7	108.0	118.0	127.0	137.0
	KW	1.29	1.46	1.65	1.86	2.09	2.36	2.65	2.97
45	TCG	36.0	34.1	32.2	30.4	28.5	26.6	24.7	22.6
	SDT	71.1	80.7	90.2	99.8	109.0	119.0	128.0	138.0
	KW	1.30	1.47	1.66	1.87	2.10	2.37	2.66	2.98
50	TCG	39.2	37.2	35.2	33.2	31.1	29.1	26.9	24.7
	SDT	72.4	82.0	91.5	101.0	111.0	120.0	129.0	139.0
	KW	1.32	1.48	1.67	1.88	2.12	2.38	2.67	2.99
55	TCG	42.7	40.5	38.3	36.1	33.9	31.7	29.4	26.9
	SDT	73.9	83.3	92.8	102.0	112.0	121.0	130.0	140.0
	KW	1.33	1.50	1.68	1.90	2.13	2.39	2.68	3.00
38TSA036-30									
30	TCG	32.9	31.2	29.4	27.6	25.7	23.7	21.6	19.4
	SDT	68.7	78.4	88.0	97.7	107.0	117.0	126.0	136.0
	KW	1.52	1.74	1.98	2.24	2.52	2.82	3.13	3.46
35	TCG	36.1	34.2	32.3	30.4	28.4	26.3	24.0	21.7
	SDT	69.9	79.5	89.2	98.8	108.0	118.0	127.0	137.0
	KW	1.52	1.74	1.98	2.24	2.53	2.84	3.16	3.50
40	TCG	39.4	37.5	35.4	33.4	31.2	28.9	26.6	24.0
	SDT	71.2	80.8	90.4	99.9	109.0	119.0	128.0	138.0
	KW	1.52	1.74	1.98	2.24	2.54	2.85	3.18	3.53
45	TCG	43.0	40.9	38.7	36.5	34.2	31.8	29.2	26.5
	SDT	72.5	82.1	91.6	101.0	111.0	120.0	129.0	139.0
	KW	1.52	1.73	1.98	2.25	2.54	2.86	3.20	3.56
50	TCG	46.8	44.5	42.2	39.9	37.4	34.8	32.1	29.2
	SDT	73.9	83.5	93.0	102.0	112.0	121.0	131.0	140.0
	KW	1.52	1.74	1.98	2.25	2.55	2.87	3.22	3.59
55	TCG	50.8	48.4	45.9	43.4	40.7	38.0	35.0	31.9
	SDT	75.5	84.9	94.4	104.0	113.0	123.0	132.0	141.0
	KW	1.52	1.74	1.98	2.26	2.56	2.88	3.23	3.61

See notes on pg. 22.

Condenser only ratings* continued

SST °F		CONDENSER ENTERING AIR TEMPERATURES °F							
		55	65	75	85	95	105	115	125
38TSA042-30									
30	TCG	38.6	36.5	34.5	32.4	30.4	28.3	26.2	23.9
	SDT	70.3	80.0	89.6	99.2	109.0	118.0	128.0	137.0
	KW	1.72	1.96	2.22	2.53	2.86	3.24	3.66	4.11
35	TCG	42.3	40.0	37.8	35.6	33.4	31.1	28.8	26.3
	SDT	71.7	81.3	90.8	100.0	110.0	120.0	129.0	138.0
	KW	1.74	1.98	2.25	2.55	2.89	3.26	3.68	4.13
40	TCG	46.2	43.8	41.4	39.0	36.6	34.1	31.6	28.9
	SDT	73.2	82.7	92.2	102.0	111.0	121.0	130.0	139.0
	KW	1.77	2.01	2.28	2.58	2.92	3.29	3.70	4.16
45	TCG	50.5	47.9	45.3	42.6	40.0	37.3	34.5	31.5
	SDT	74.7	84.2	93.6	103.0	113.0	122.0	131.0	140.0
	KW	1.80	2.04	2.31	2.61	2.95	3.32	3.73	4.18
50	TCG	55.0	52.1	49.3	46.5	43.6	40.7	37.6	34.4
	SDT	76.3	85.7	95.1	105.0	114.0	123.0	132.0	142.0
	KW	1.83	2.07	2.34	2.65	2.98	3.36	3.77	4.21
55	TCG	59.7	56.7	53.6	50.5	47.4	44.2	40.9	37.4
	SDT	78.1	87.4	96.7	106.0	115.0	125.0	134.0	143.0
	KW	1.87	2.11	2.38	2.69	3.02	3.39	3.80	4.25

* ARI listing applies only to systems shown in Ratings and Performance table.

KW — Total Power (Kw)
SDT — Saturated Temperature Leaving Compressor (°F)
SST — Saturated Temperature Entering Compressor (°F)
TCG — Gross Cooling Capacity (1000 Btuh)

System design summary

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. Maximum elevation of indoor coil above or below base of outdoor unit is: Indoor coil above = 30 ft, indoor coil below = 30 ft.
6. For interconnecting refrigerant tube lengths greater than 50 ft, consult Residential Split System Application Guideline and Service Manual available from equipment distributor.
7. 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 consideration. For buried lines longer than 3 ft, consult your local distributor.
8. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
9. Do not apply capillary tube indoor coils to these units.
10. Factory-supplied filter drier must be installed.
11. Do not deviate from factory supplied TXV's and Liquid-Line Solenoids.

Guide specifications

Air-Cooled, Split-System Air Conditioner 38TSA 2 to 3-1/2 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 and 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 150 psig and pressure tested at 450 psig.

Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

U.S. and Canada only.

PRODUCTS

Equipment

Factory assembled, single piece, air-cooled 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.

Refrigerant

Refrigerant will be Puron HFC refrigerant with zero ozone depletion potential. Puron is approved under the EPA's Significant New Alternatives Policy (SNAP) Program.

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 valve with sweat connections, system charge of refrigerant Puron® (R-410A), and compressor oil.

Unit will be equipped with factory supplied TXV (Thermostatic Expansion Valve), high pressure switch, low pressure switch, and filter drier for Puron refrigerant.

Operating Characteristics

The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F. 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 an SEER of _____ Btuh/watt or greater at DOE conditions.

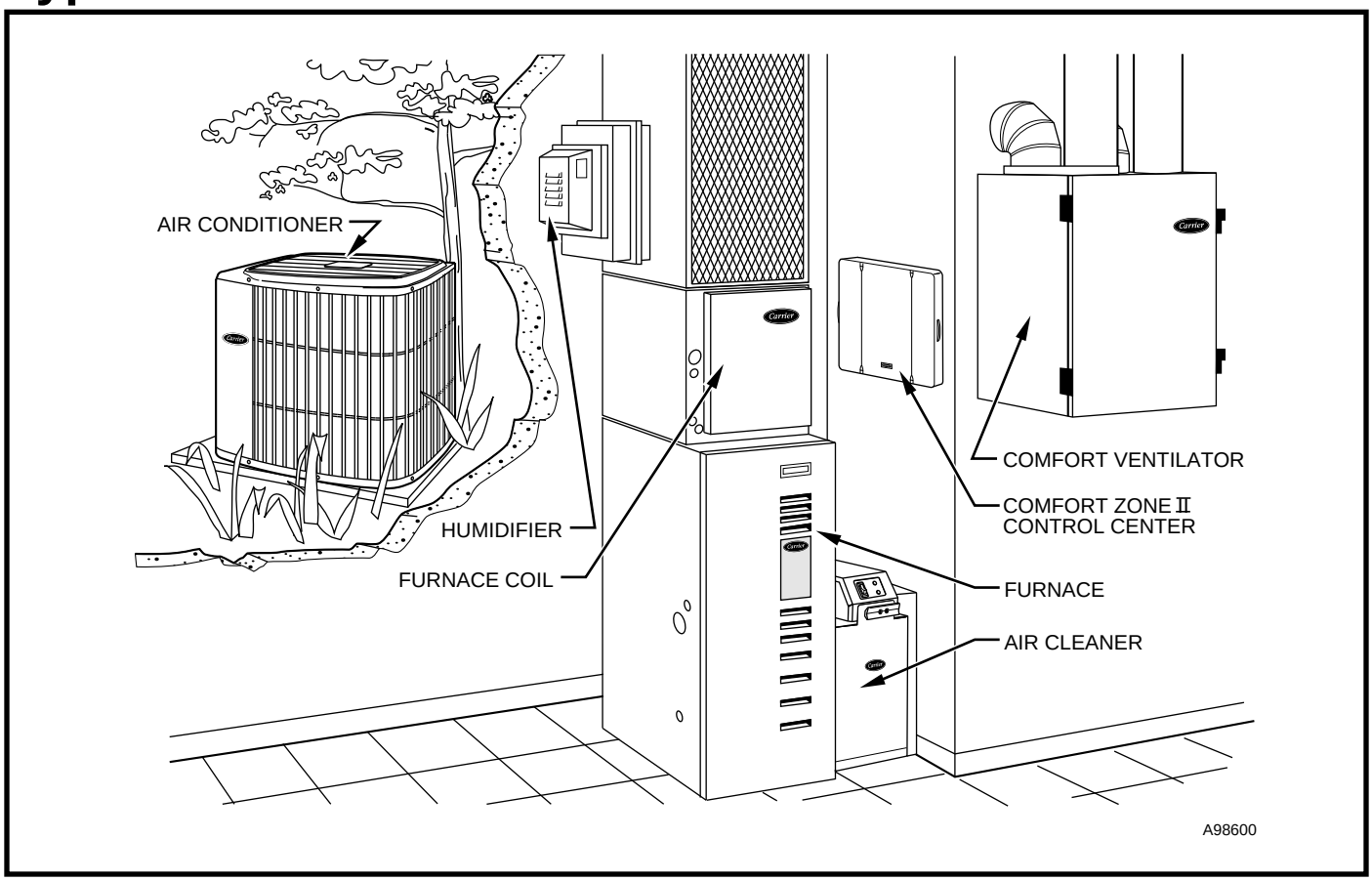
Electrical Requirements

Nominal unit electrical characteristics will be _____ v, single phase, 60 hertz. 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.

Typical installation