

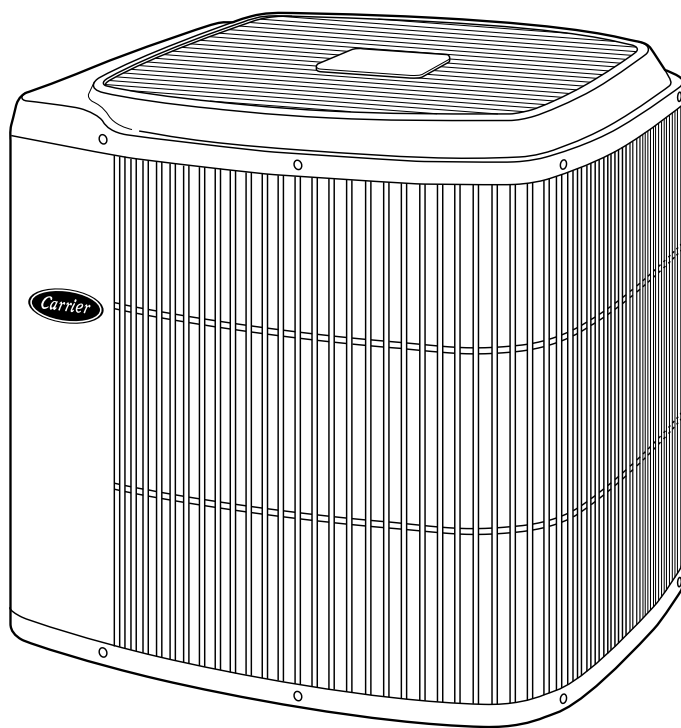


Product Data

38TUA (60 Hz) Air Conditioner

Sizes 018 thru 060

Quality Assurance



Model 38TUA Energy-Efficient Air Conditioner incorporates innovative technology to provide quiet, reliable summer cooling performance. Built into these units are the features most desired by homeowners today, including SEER ratings of up to 11.0 when used with components as designated by manufacturer. All models are listed with UL, c-UL, ARI, CEC, and CSA-EEV.

The Tech 2000 Silencer System features the InViroFlow design, energy-efficient fan and motor, advanced sound hood, and compressor vibration isolator plate.

InViroFlow Design for improved airflow pattern requiring less energy.

Energy-Efficient Fan and Fan Motor adds to quiet operation while moving air more efficiently.

Sound Hood to muffle noise from operation.

Compressor Vibration Isolator Plate eliminates compressor vibration transmission to the base pan thus ensuring quiet operation.

FEATURES/BENEFITS

Electrical Range — Units are offered in 208/230 volts single phase.

Wide Range of Sizes — Available in 7 nominal sizes from 018 through 060 to meet the needs of residential and light commercial applications.

Weather-Armor II Cabinet — Steel is protected with a galvanized coating then treated with a layer of zinc phosphate. A coat of modified polyester powder 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 coated for a long-lasting, rust-resistant, quality appearance.

Totally Enclosed Fan Motor — Means greater reliability under rain conditions, dependable performance

for many years. Permanent-split-capacitor-type motors provide more economical operation.

Unit Design — Copper tube and enhanced aluminum fin coil is designed for optimum heat transfer. Vertical air discharge carries sound and hot condenser air up and away from adjacent patio areas and foliage. Heat pump style drain pan for easy removal of water, dirt, and leaves.

Application Versatility — The 38TUA can be combined with a wide

variety of evaporator coils and blower packages to provide quiet, dependable comfort. Unit can be installed on a roof or at ground level.

External Service Valves — Both service valves are brass, back seating type with sweat connections. Valves are externally located so refrigerant tube connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.

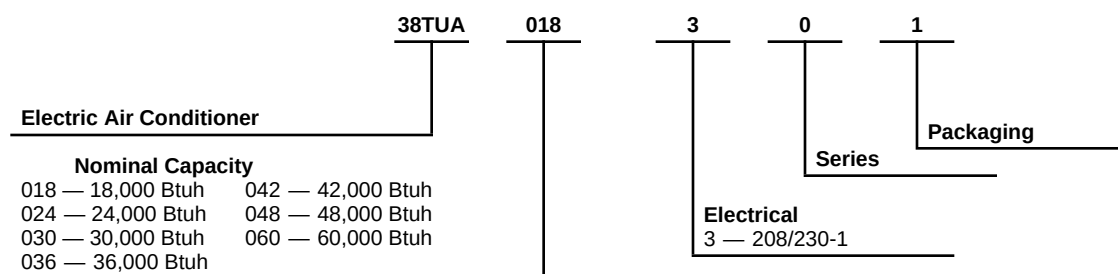
Easy Serviceability — One access panel provides access to electrical

control box and compressor. For improved serviceability each compressor is equipped with a compressor terminal plug (with the exception of the 048). Removal of top gives access to fan motor and coil.

Standard Features — All units are equipped with compressor sound hood and compressor short cycle protector.

Warranty — Standard 1 year on parts, with an additional 9 years on compressor.

Model number nomenclature



Physical data

UNIT SIZE	018	024	030	036	042	048	060
OPERATING WEIGHT	138	143	153	200	213	247	287
COMPRESSOR Manufacturer & Type	Copeland & Scroll			Millennium & Scroll		Copeland & Scroll	Millennium & Scroll
REFRIGERANT Control	22 AccuRater® (Bypass Type)						
Charge (Lb)	4.25	4.48	5.47	5.53	6.68	6.34	11.15
COND FAN Air Discharge Air Qty (CFM)	Propeller Type, Direct Drive Vertical						
	1700		2000		3000		3300
COND COIL Face Area (Sq ft)	Copper Tube, Aluminum Plate Fin						
	8.7		10.8	12.0	15.2		18.3
VALVE CONNECT (In. ID)	Sweat						
Vapor	5/8		3/4		7/8		
Liquid				3/8			
REFRIG TUBES* (In. OD)	Sweat						
Vapor	5/8		3/4		7/8		1-1/8
Liquid				3/8			

NOTE: See unit Installation Instructions for proper installation.

* Tube sizes are for runs up to 50 ft. For tube set over 50 ft consult Long-Line Application Guideline.

AccuRater® chart

UNIT SIZE-SERIES	PISTON* IDENTIFICATION NO.
018-0	55
024-0	59
030-0	63
036-0	73
042-0	78
048-0	84
060-0	98

* Piston listed is for any approved non-capillary tube coil combination. Piston is shipped with outdoor unit and must be installed in approved indoor coil.



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

Accessories

ORDERING NUMBER	DESCRIPTION
KAATD0101TDR	Time-Delay Relay — All Sizes
P251-0083 (RCD)	Low-Ambient Controller — All Sizes
KAAWS0101AAA	Winter Start Control* — All Sizes
KAAFT0101AAA	Evap Freeze Thermostat* — All Sizes
Standard	Cycle Protector
KSAHS0401AAA	Start Assist — Capacitor/Relay — All Sizes
KAACS0201PTC	Start Assist — PTC — All Sizes
Standard	Sound Hood
KAATX0201RPB	TXV Kit (RPB) (Size 018)
KAATX0301RPB	TXV Kit (RPB) (Size 024)
KAATX0401RPB	TXV Kit (RPB) (Size 030)
KAATX0501RPB	TXV Kit (RPB) (Sizes 036, 042)
KAATX0601RPB	TXV Kit (RPB) (Size 048)
KAATX0701RPB	TXV Kit (RPB) (Size 060)
KAACF0601SML	Coastal Filter (Sizes 018–030)
KAACF0201MED	Coastal Filter (Sizes 036–060)
32LT66004	Motormaster (RCD) — All Sizes

* Use with low-ambient controller.

ORDERING NUMBER	DESCRIPTION
KAATX0901HSO	TXV Kit (Hard Shut-off) (Size 018)
KAATX1001HSO	TXV Kit (Hard Shut-off) (Size 024)
KAATX1101HSO	TXV Kit (Hard Shut-off) (Size 030)
KAATX1201HSO	TXV Kit (Hard Shut-off) (Sizes 036, 042)
KAATX1301HSO	TXV Kit (Hard Shut-off) (Size 048)
KAATX1401HSO	TXV Kit (Hard Shut-off) (Size 060)
KAALP0101LPS	Low-Pressure Switch — All Sizes
KSAHI0101HPS	High-Pressure Switch — All Sizes
P502-8083S (RCD)	Filter Drier (Sizes 018-036)
P502-8163S (RCD)	Filter Drier (Sizes 042-060)
KAALS0101LLS	Liquid Solenoid Valve — All Sizes
KSASF0101AAA	Support Feet — All Sizes
KAACH1201AAA	Crankcase Heater — All Sizes
HC34GE231	Ball Bearing Fan Motor (RCD) (Sizes 018–030)
HC38GE230	Ball Bearing Fan Motor (RCD) (Sizes 036, 042)
HC40GE230	Ball Bearing Fan Motor (RCD) (Sizes 048, 060)

THERMOSTAT PKG.	DESCRIPTION
TSTATCCNAC01	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
TSTATCCPAC01-A	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool
--HH--07AT-213	Thermostat, Manual Changeover, Non-Programmable, °F, 1-Stage Heat, 1-Stage Cool
TSTATCCSEN01	Outdoor Sensor

Accessory Description and Usage

1. Time-Delay Relay

A 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.)

2. Winter Start Control

A 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 which have low-pressure switch and where low-ambient controller has been added.

3. Evaporator Freeze Thermostat

A SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.

SUGGESTED USE: All units where low-ambient controller has been added.

4. Compressor Start Assist — Capacitor/Relay Type

Start capacitor and start relay 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)

Replacement installations with hard shut-off expansion valve on indoor coil.

5. Compressor Start Assist — PTC Type

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

SUGGESTED USE: Installations with marginal power supply.

Replacement installations with rapid pressure balance (RPB) expansion valve on indoor coil.

Replacement installations with undersized interconnecting refrigerant tubes.

6. 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. Both hard shut-off and RPB type valves are available.

SUGGESTED USE: For improved system performance in cooling mode for certain combinations of indoor and outdoor units. (Refer to ARI Unitary Directory.)

7. Low-Pressure Switch

Auto reset SPST switch activated by refrigerant pressure on low side of refrigerant circuit. Cycles compressor off if refrigerant pressure drops to about 27 psig. Prevents indoor coil freeze-up due to loss of indoor airflow. Also, provides additional protection against compressor damage due to loss of refrigerant charge.

SUGGESTED USE: Where indoor coil is exposed to “dirty” air.

All commercial installations.

8. High-Pressure Switch

Auto reset SPST switch activated by refrigerant pressure on high side of refrigerant circuit. Cycles compressor off if refrigerant pressure rises to about 425 psig. Provides additional protection against compressor damage due to loss of outdoor airflow.

SUGGESTED USE: Installations exposed to very “dirty” outdoor air.

Installations where condenser inlet air temperature exceeds 125°F (51.7°C).

9. Filter Drier

A device for removing contaminants from refrigerant circulating in an air conditioner; 1 direction flow for air conditioners.

SUGGESTED USE: All field-connected split-system air conditioners.

10. Liquid Solenoid Valve (LLS)

An electrically operated shut-off 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.

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 Long-Line Application Guideline).

11. Support Feet

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

SUGGESTED USE: Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

12. 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.

13. 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.

SUGGESTED USE: In geographic areas where salt damage could occur.

Electrical data

UNIT SIZE-SERIES	V/PH	OPER VOLTS*		COMPR		FAN FLA	MCA	MIN WIRE SIZE 60°C	MIN WIRE SIZE 75°C	MAX LENGTH (FT) 60°C‡	MAX LENGTH (FT) 75°C‡	MAX FUSE† OR HACR TYPE CKT BKR AMPS
		Max	Min	LRA	RLA							
018-0	208/230/1	253	187	50.0	10.7	0.5	13.9	14	14	56	53	20
024-0				62.5	11.6	0.5	15.0	14	14	53	50	20
030-0				76.0	13.5	0.8	17.7	14	14	44	42	25
036-0				95.0	16.7	1.0	21.8	12	12	57	54	30
042-0				115.0	19.9	1.0	25.8	10	10	77	73	40
048-0				129.0	23.7	1.4	31.0	8	10	100	61	50
060-0				165.0	28.8	1.4	37.4	8	8	82	78	60

FLA — Full Load Amps

HACR — Heating, Air Conditioning, Refrigeration

LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps

RLA — Rated Load Amps

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

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 336-36.

All motors/compressors contain internal overload protection.

† Time-delay fuse.

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

Performance data

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT†	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)
					TDR	TXV	
018-30	CC5A/CD5A/CD5BA024*	17,800	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BA018	17,400	NONE	10.20	10.50	10.50	7.2
	CD3(A,B)A018	17,400	NONE	10.20	10.50	10.50	7.2
	CC5A/CD5A/CD5BW024	17,800	NONE	10.50	11.00	11.00	7.2
	CD3(A,B)A024	17,800	NONE	10.50	11.00	11.00	7.2
	CD3CA024	17,800	NONE	10.50	11.00	11.00	7.2
	CE3AA024	17,800	NONE	10.50	11.00	11.00	7.2
	CF5AA024	17,800	NONE	10.50	11.00	11.00	7.2
	CG5AA024	17800	NONE	10.50	11.00	11.00	7.2
	F(A,B)4ANF018	17,200	TDR	10.50	—	10.50	7.2
	F(A,B)4ANF024	17,800	TDR	11.00	—	11.00	7.2
	FC4BNF024	17,800	TDR & TXV	11.00	—	—	7.2
	FC4BNF033	18,000	TDR & TXV	11.00	—	—	7.2
	FD3ANA018	17,500	NONE	10.00	10.20	10.20	7.2
	FD3ANA024	17,800	NONE	10.50	11.00	11.00	7.2
	FF1(A,B)NA018	17,400	TDR	11.00	—	11.00	7.2
	FF1(A,B)NA024	17,800	TDR	11.00	—	11.00	7.2
	FG3AAA024	17,600	NONE	10.40	10.70	10.70	7.2
	FK4BNF001	18,500	TDR & TXV	12.50	—	—	7.2
	FK4BNF002	18,500	TDR & TXV	12.70	—	—	7.2
	FK4BNF004	18,500	TDR & TXV	13.00	—	—	7.2
	COILS + 58MVP040-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
	COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA024	18,000	NONE	12.00	—	12.00	7.2
	CD3(A,B)A024	18,000	NONE	12.00	—	12.00	7.2
024-30	CC5A/CD5A/CD5BA030*	23,600	NONE	10.70	11.00	11.00	7.2
	CC5A/CD5A/CD5BA024	23,400	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BW024	23,400	NONE	10.50	11.00	11.00	7.2
	CD3(A,B)A024	23,400	NONE	10.50	11.00	11.00	7.2
	CC5A/CD5A/CD5BW030	23,400	NONE	10.70	11.00	11.00	7.2
	CD3(A,B)A030	23,400	NONE	10.70	11.00	11.00	7.2
	CD3CA024	23,400	NONE	10.70	11.00	11.00	7.2
	CD3CA030	23,400	NONE	10.70	11.00	11.00	7.2
	CE3AA024	23,400	NONE	10.70	11.00	11.00	7.2
	CE3AA030	23,600	NONE	11.00	11.10	11.10	7.2
	CF5AA024	23,400	NONE	10.70	11.00	11.00	7.2
	CG5AA024	23,400	NONE	10.70	11.00	11.00	7.2
	F(A,B)4ANF024	23,400	TDR	11.00	—	11.00	7.2
	F(A,B)4ANF030	23,800	TDR	11.50	—	11.50	7.2
	FC4BNF024	23,600	TDR & TXV	11.10	—	—	7.2
	FC4BNF033	24,200	TDR & TXV	11.50	—	—	7.2
	FC4BNF030	23,800	TDR & TXV	11.50	—	—	7.2
	FD3ANA024	23,200	NONE	11.00	11.20	11.20	7.2
	FD3ANA030	23,800	NONE	11.00	11.30	11.30	7.2
	FF1(A,B)NA024	23,400	TDR	11.00	—	11.00	7.2
	FF1(A,B)NA030	24,000	TDR	11.30	—	11.30	7.2
	FG3AAA024	23,200	NONE	10.70	11.00	11.00	7.2
	FK4BNF001	24,800	TDR & TXV	12.50	—	—	7.2
	FK4BNF002	25,000	TDR & TXV	12.60	—	—	7.2
	FK4BNF004	25,000	TDR & TXV	13.00	—	—	7.2
	FK4BNF003	25,000	TDR & TXV	13.00	—	—	7.2
	COILS + 58MVP040-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
	COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA030	23,800	NONE	12.00	—	12.00	7.2
	CD3(A,B)A030	23,800	NONE	12.00	—	12.00	7.2
030-30	CC5A/CD5A/CD5BA036*	29,000	NONE	10.70	11.00	11.00	7.4
	CC5A/CD5A/CD5BA030	28,000	NONE	10.20	10.50	10.50	7.4
	CC5A/CD5A/CD5BW030	28,000	NONE	10.20	10.50	10.50	7.4
	CD3(A,B)A030	28,000	NONE	10.20	10.50	10.50	7.4
	CD5A/CD5BW036	29,000	NONE	10.50	11.00	11.00	7.4
	CD3(A,B)A036	29,000	NONE	10.70	11.00	11.00	7.4
	CD3CA030	28,000	NONE	10.20	10.50	10.50	7.4
	CD3CA036	28,400	NONE	10.40	10.70	10.70	7.4
	CE3AA030	28,000	NONE	10.50	10.70	10.70	7.4
	CE3AA036	28,400	NONE	10.50	11.00	11.00	7.4
	CF5AA036	28,800	NONE	10.50	11.00	11.00	7.4
	CG5AA036	28,800	NONE	10.50	11.00	11.00	7.4
	F(A,B)4ANF030	27,800	TDR	11.00	—	11.00	7.4
	F(A,B)4ANF036	28,600	TDR	10.70	—	10.70	7.4
	FC4BNF030	28,000	TDR & TXV	10.80	—	—	7.4
	FC4BNF036	28,800	TDR & TXV	10.70	—	—	7.4

See notes on pg. 8.

Performance data continued

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT†	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)
					TDR	TXV	
030-30	FC4BNF033	29,000	TDR & TXV	11.00	—	—	7.4
	FD3ANA030	28,200	NONE	10.20	10.50	10.50	7.4
	FF1(A,B)NA030	28,200	TDR	10.80	—	10.80	7.4
	FG3AAA036	28,800	NONE	10.50	11.00	11.00	7.4
	FK4BNF003	29,200	TDR & TXV	12.00	—	—	7.4
	FK4BNF001	28,200	TDR & TXV	11.50	—	—	7.4
	FK4BNF002	28,600	TDR & TXV	11.50	—	—	7.4
	FK4BNF004	29,200	TDR & TXV	12.00	—	—	7.4
	COILS + 58MVP040-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA036	29,400	NONE	12.00	—	12.00	7.4
	CD3(A,B)A036	29,400	NONE	12.00	—	12.00	7.4
	COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA036	29,400	NONE	12.00	—	12.00	7.4
	CD3(A,B)A036	29,400	NONE	12.00	—	12.00	7.4
	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA036	29,400	NONE	12.00	—	12.00	7.4
	CD3(A,B)A036	29,400	NONE	12.00	—	12.00	7.4
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA036	29,400	NONE	12.00	—	12.00	7.4
	CD3(A,B)A036	29,400	NONE	12.00	—	12.00	7.4
036-30	CC5A/CD5A/CD5BA042*	35,000	NONE	11.00	11.20	11.20	7.6
	CC5A/CD5A/CD5BA036	34,800	NONE	11.00	11.20	11.20	7.6
	CD5A/CD5BW036	34,800	NONE	11.00	11.20	11.20	7.6
	CD3(A,B)A036	34,800	NONE	11.00	11.20	11.20	7.6
	CD3(A,B)A042	34,800	NONE	11.00	11.20	11.20	7.6
	CC5A/CD5A/CD5BW042	34,600	NONE	10.70	11.00	11.00	7.6
	CD3CA036	34,400	NONE	10.70	11.00	11.00	7.6
	CD3CA042	34,400	NONE	10.70	11.00	11.00	7.6
	CE3AA036	34,200	NONE	10.70	11.00	11.00	7.6
	CE3AA042	35,000	NONE	11.00	11.20	11.20	7.6
	CF5AA036	34,600	NONE	11.00	11.20	11.20	7.6
	CG5AA036	34,600	NONE	11.00	11.20	11.20	7.6
	F(A,B)4ANF036	34,200	TDR	10.80	—	10.80	7.6
	F(A,B)4AN(F,B)042	34,800	TDR	11.00	—	11.00	7.6
	FC4BNF036	34,200	TDR & TXV	10.80	—	—	7.6
	FC4BNF033	34,800	TDR & TXV	11.00	—	—	7.6
	FC4BN(F,B)042	34,800	TDR & TXV	11.00	—	—	7.6
	FC4BNF038	36,000	TDR & TXV	11.30	—	—	7.6
	FC4BNB054	36,600	TDR & TXV	11.80	—	—	7.6
	FG3AAA036	34,200	NONE	10.70	11.00	11.00	7.6
	FK4BNF001	34,000	TDR & TXV	11.20	—	—	7.6
	FK4BNF002	34,400	TDR & TXV	11.20	—	—	7.6
	FK4BNF004	34,600	TDR & TXV	12.00	—	—	7.6
	FK4BNF003	34,800	TDR & TXV	12.00	—	—	7.6
	FK4BNF005	36,000	TDR & TXV	12.50	—	—	7.6
	FK4BNB006	36,000	TDR & TXV	13.00	—	—	7.6
	COILS + 58MVP040-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 58MVP060-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE						
	CC5A/CD5A/CD5BA042	34,800	NONE	12.00	—	12.00	7.6
	CD3(A,B)A042	34,800	NONE	12.00	—	12.00	7.6
042-30	CD5A/CD5BA048*	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BA042	41,000	NONE	10.70	11.00	11.00	7.6
	CD3(A,B)A042	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BW042	40,500	NONE	10.70	11.00	11.00	7.6
	CD3(A,B)A048	41,000	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BC048	40,500	NONE	10.70	11.00	11.00	7.6
	CC5A/CD5A/CD5BW048	41,000	NONE	10.70	11.00	11.00	7.6
	CD3CA042	39,500	NONE	10.50	10.70	10.70	7.6
	CD3CA048	40,500	NONE	10.70	11.00	11.00	7.6
	CE3AA042	41,000	NONE	10.70	11.00	11.00	7.6
	CE3AA048	41,500	NONE	10.70	11.00	11.00	7.6
	CF5AA048	41,000	NONE	10.70	11.00	11.00	7.6
	CG5AA048	41,000	NONE	10.70	11.00	11.00	7.6
	F(A,B)4AN(F,B)042	40,500	TDR	11.00	—	11.00	7.6
	F(A,B)4AN(F,B)048	41,500	TDR	11.10	—	11.10	7.6
	FC4BN(F,B)042	40,500	TDR & TXV	11.00	—	—	7.6
	FC4BNB054	42,500	TDR & TXV	11.50	—	—	7.6
	FC4BN(F,B)048	41,000	TDR & TXV	11.00	—	—	7.6
	FG3AAA048	41,000	NONE	10.70	11.00	11.00	7.6
	FK4BNF003	41,000	TDR & TXV	12.00	—	—	7.6
	FK4BNB005	42,500	TDR & TXV	12.20	—	—	7.6
	FK4BNB006	42,500	TDR & TXV	12.50	—	—	7.6

See notes on pg. 8.

Performance data continued

UNIT SIZE-SERIES	INDOOR MODEL	TOT. CAP. BTUH	FACTORY SUPPLIED ENHANCE- MENT†	STANDARD RATING	FIELD-SUPPLIED ACCESSORY†		SOUND RATING (BELS)	
					TDR	TXV		
042-30	COILS + 58MVP080-14 VARIABLE-SPEED FURNACE							
	CD5A/CD5BA048	40,500	NONE	12.00	—	12.00	7.6	
	CD3(A,B)A048	40,500	NONE	12.00	—	12.00	7.6	
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE							
	CD5A/CD5BA048	40,500	NONE	12.00	—	12.00	7.6	
	CD3(A,B)A048	40,500	NONE	12.00	—	12.00	7.6	
048-30	CC5A/CD5A/CD5BA060*	47,000	NONE	10.60	11.00	11.00	7.8	
	CD5A/CD5BA048	46,500	NONE	10.50	11.00	11.00	7.8	
	CD3(A,B)A048	46,500	NONE	10.50	11.00	11.00	7.8	
	CC5A/CD5A/CD5BC048	45,000	NONE	10.50	10.80	10.80	7.8	
	CC5A/CD5A/CD5BW048	46,000	NONE	10.50	11.00	11.00	7.8	
	CD3(A,B)A060	47,000	NONE	10.60	11.00	11.00	7.8	
	CC5A/CD5A/CD5BW060	48,000	NONE	10.80	11.20	11.20	7.8	
	CD3CA048	46,500	NONE	10.30	10.80	10.80	7.8	
	CD3CA060	47,000	NONE	10.50	11.00	11.00	7.8	
	CE3AA048	46,500	NONE	10.70	11.00	11.00	7.8	
	CE3AA060	48,000	NONE	11.00	11.20	11.20	7.8	
	CF5AA048	47,000	NONE	10.70	11.20	11.20	7.8	
	CG5AA048	47,000	NONE	10.70	11.20	11.20	7.8	
	F(A,B)4AN(F,B)048	46,500	TDR	11.00	—	11.00	7.8	
	F(A,B)4AN(F,B)060	48,000	TDR	11.00	—	11.00	7.8	
	FB4ANB070	48,000	TDR	11.50	—	11.50	7.8	
	FC4BN(F,B)048	47,000	TDR & TXV	11.00	—	—	7.8	
	FC4BNB070	48,000	TDR & TXV	11.50	—	—	7.8	
	FC4BN(F,B)060	48,000	TDR & TXV	11.00	—	—	7.8	
	FC4BNB054	48,000	TDR & TXV	11.50	—	—	7.8	
	FG3AAA048	46,000	NONE	10.50	10.80	10.80	7.8	
	FG3AAA060	48,000	NONE	10.70	11.00	11.00	7.8	
	FK4BNB006	48,500	TDR & TXV	12.50	—	—	7.8	
	COILS + 58MVP100-20 VARIABLE-SPEED FURNACE							
		CC5A/CD5A/CD5BW060	47,000	NONE	11.90	—	11.90	7.8
	060-30	CC5A/CD5A/CD5BW060*	57,000	NONE	10.80	11.00	11.00	7.8
		CC5A/CD5A/CD5BA060	55,000	NONE	10.60	11.00	11.00	7.8
CD3(A,B)A060		55,000	NONE	10.60	11.00	11.00	7.8	
CD3CA060		57,000	NONE	10.50	11.00	11.00	7.8	
CD3CA070		57,500	NONE	10.50	11.00	11.00	7.8	
CE3AA060		58,000	NONE	10.80	11.20	11.20	7.8	
F(A,B)4AN(F,B)060		58,000	TDR	10.70	—	10.70	7.8	
FB4ANB070		59,000	TDR	11.00	—	11.00	7.8	
FC4BNB070		59,000	TDR & TXV	11.00	—	—	7.8	
FC4BN(F,B)060		57,500	TDR & TXV	10.70	—	—	7.8	
FC4BNB054		58,000	TDR & TXV	11.30	—	—	7.8	
FG3AAA060		57,000	NONE	10.70	11.00	11.00	7.8	
FK4BNB006		58,500	TDR & TXV	11.70	—	—	7.8	

*Tested Combination

† Refer to TDR Table prior to utilizing accessory TDR. If utilizing TXV, hard shut-off type is required based on computer simulation.

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.

TDR.90 TABLE

METHOD	PART/MODEL NO.
Time-Delay Relay	KAATD0101TDR
Furnaces with TDR	58SSC/58DHC, 58SX, 58DX, 58SXB, 58GFA/DFA, 58PAP/RAP, 58RAV, 58EJA, 58MXA, 58MCA, 58MVP, 58TUA, 58TMA

NOTE: In most cases, only 1 of the above should be used to achieve TDR function. More than 1 of the methods listed above in a system may cause degradation in performance.

Detailed cooling capacities*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA018-30 Outdoor Section With CC5A/CD5A/CD5BA024 Indoor Section																
525	72	20.1	9.79	1.68	19.2	9.48	1.84	18.5	9.19	2.02	17.6	8.89	2.21	16.8	8.57	2.43
	67	18.4	12.3	1.66	17.7	12.0	1.81	16.9	11.7	1.99	16.2	11.4	2.19	15.4	11.1	2.40
	62	16.8	14.8	1.63	16.1	14.5	1.79	15.4	14.1	1.97	14.7	13.8	2.16	14.0	13.4	2.38
	57	15.9	15.9	1.63	15.4	15.4	1.79	14.9	14.9	1.97	14.3	14.3	2.16	13.7	13.7	2.38
600	72	20.4	10.2	1.71	19.6	9.90	1.88	18.8	9.61	2.06	18.0	9.31	2.26	17.1	8.98	2.47
	67	18.7	13.0	1.69	18.0	12.7	1.86	17.3	12.4	2.04	16.5	12.1	2.23	15.6	11.8	2.45
	62	17.1	15.7	1.67	16.5	15.4	1.84	15.7	15.0	2.00	15.0	14.6	2.19	14.3	14.2	2.40
	57	16.5	16.5	1.66	16.0	16.0	1.82	15.4	15.4	2.00	14.8	14.8	2.20	14.2	14.2	2.41
675	72	20.6	10.6	1.74	19.8	10.3	1.90	19.0	9.97	2.08	18.1	9.67	2.28	17.2	9.35	2.50
	67	19.0	13.7	1.72	18.2	13.4	1.88	17.4	13.1	2.06	16.6	12.8	2.26	15.8	12.4	2.47
	62	17.4	16.6	1.70	16.7	16.2	1.86	16.0	15.8	2.04	15.2	15.2	2.22	14.6	14.6	2.43
	57	17.1	17.1	1.70	16.5	16.5	1.86	15.9	15.9	2.03	15.2	15.2	2.23	14.6	14.6	2.44
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling										
		Capacity	Power			Capacity	Power									
CC5A/CD5A/CD5BA	018	0.98	0.99	FF1(A,B)NA	018	0.98	0.96									
	024	1.00	1.00		024	1.00	1.00									
CD3(A,B)A	018	0.98	0.99	FG3AAA	024	0.99	1.00									
CC5A/CD5A/CD5BW	024	1.00	1.00	FK4BNF	001	1.04	0.93									
CD3(A,B)A	024	1.00	1.00		002	1.04	0.93									
CD3CA	024	1.00	1.00		004	1.04	0.91									
CE3AA	024	1.00	1.00	COILS + 58MVP040-14 VARIABLE SPEED FURNACE												
CF5AA	024	1.00	1.00	CC5A/CD5A/CD5BA	024	1.01	0.94									
CG5AA	024	1.00	1.00	CD3(A,B)A	024	1.01	0.94									
F(A,B)4ANF	018	0.97	0.99	COILS + 58MVP060-14 VARIABLE SPEED FURNACE												
	024	1.00	1.01	CC5A/CD5A/CD5BA	024	1.01	0.94									
FC4BNF	024	1.00	1.01	CD3(A,B)A	024	1.01	0.94									
	033	1.01	1.03	COILS + 58MVP080-14 VARIABLE SPEED FURNACE												
FD3ANA	018	0.98	1.02	CC5A/CD5A/CD5BA	024	1.01	0.94									
	024	1.00	0.99	CD3(A,B)A	024	1.01	0.94									

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA024-30 Outdoor Section With CC5A/CD5A/CD5BA030 Indoor Section																
700	72	26.3	13.0	2.16	25.4	12.6	2.40	24.4	12.3	2.66	23.5	12.0	2.96	22.6	11.6	3.30
	67	24.1	16.5	2.14	23.3	16.1	2.37	22.4	15.8	2.63	21.5	15.4	2.92	20.7	15.1	3.27
	62	22.0	19.9	2.12	21.2	19.5	2.34	20.4	19.0	2.58	19.6	18.6	2.87	18.8	18.2	3.21
	57	21.1	21.1	2.10	20.4	20.4	2.32	19.8	19.8	2.58	19.2	19.2	2.87	18.6	18.6	3.21
800	72	26.7	13.5	2.20	25.7	13.2	2.43	24.7	12.8	2.70	23.8	12.5	2.99	22.8	12.1	3.34
	67	24.5	17.4	2.18	23.6	17.1	2.41	22.7	16.7	2.67	21.8	16.3	2.96	20.9	16.0	3.30
	62	22.4	21.1	2.16	21.6	20.7	2.38	20.7	20.2	2.62	19.9	19.7	2.91	19.2	19.1	3.24
	57	21.9	21.9	2.15	21.2	21.2	2.38	20.6	20.6	2.64	19.9	19.9	2.94	19.2	19.2	3.28
900	72	26.9	14.0	2.24	26.0	13.7	2.47	25.0	13.3	2.74	24.0	13.0	3.03	23.0	12.6	3.37
	67	24.8	18.3	2.22	23.9	18.0	2.45	23.0	17.6	2.71	22.0	17.3	3.00	21.1	16.9	3.34
	62	22.8	22.2	2.20	22.0	21.7	2.42	21.2	21.1	2.68	20.3	20.3	2.95	19.6	19.6	3.29
	57	22.5	22.5	2.20	21.8	21.8	2.42	21.1	21.1	2.68	20.4	20.4	2.97	19.7	19.7	3.32

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	024	0.99	1.00	FD3ANA	024	0.98	0.98
	030	1.00	1.00		030	1.01	1.00
CC5A/CD5A/CD5BW	024	0.99	1.00	FF1(A,B)NA	024	0.99	1.01
	030	0.99	1.00		030	1.02	1.01
CD3(A,B)A	024	0.99	1.00	FG3AAA	024	0.98	1.00
	030	0.99	1.00	FK4BNF	001	1.05	0.94
CD3CA	024	0.99	1.00		002	1.06	0.94
	030	0.99	1.00		003	1.06	0.91
CE3AA	024	0.99	1.00		004	1.06	0.92
	030	1.00	1.00	COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CF5AA	024	0.99	1.00	CC5A/CD5A/CD5BA	030	1.01	0.94
CG5AA	024	0.99	1.00	CD3(A,B)A	030	1.01	0.94
F(A,B)4ANF	024	0.99	1.00	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
	030	1.01	0.99	CC5A/CD5A/CD5BA	030	1.01	0.94
FC4BNF	024	1.00	1.00	CD3(A,B)A	030	1.01	0.94
	030	1.01	0.99	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
	033	1.03	1.00	CC5A/CD5A/CD5BA	030	1.01	0.94
	—	—	—	CD3(A,B)A	030	1.01	0.94

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA030-30 Outdoor Section With CC5A/CD5A/CD5BA036 Indoor Section																
875	72	32.4	16.1	2.68	31.2	15.6	2.95	29.9	15.2	3.26	28.7	14.7	3.60	27.4	14.2	3.99
	67	29.7	20.4	2.64	28.6	20.0	2.91	27.4	19.5	3.21	26.2	19.0	3.55	25.1	18.6	3.95
	62	27.2	24.6	2.61	26.1	24.1	2.87	25.1	23.6	3.17	24.1	23.1	3.52	23.1	22.5	3.92
	57	26.1	26.1	2.58	25.3	25.3	2.85	24.5	24.5	3.17	23.7	23.7	3.52	22.8	22.8	3.92
1000	72	32.9	16.8	2.73	31.6	16.3	3.00	30.3	15.8	3.31	29.0	15.4	3.65	27.6	14.9	4.04
	67	30.2	21.6	2.69	29.0	21.2	2.96	27.8	20.7	3.26	26.6	20.2	3.60	25.4	19.7	4.00
	62	27.7	26.2	2.66	26.6	25.7	2.93	25.5	25.0	3.22	24.5	24.4	3.57	23.5	23.5	3.96
	57	27.0	27.0	2.64	26.2	26.2	2.92	25.3	25.3	3.23	24.4	24.4	3.57	23.5	23.5	3.97
1125	72	33.2	17.4	2.78	31.9	17.0	3.05	30.6	16.5	3.36	29.2	16.0	3.70	27.8	15.6	4.09
	67	30.5	22.8	2.74	29.3	22.4	3.01	28.1	21.9	3.31	26.8	21.4	3.65	25.6	20.9	4.04
	62	28.1	27.6	2.71	27.1	26.9	2.97	26.0	26.0	3.27	25.1	25.1	3.62	24.2	24.2	4.05
	57	27.9	27.9	2.71	27.0	27.0	2.98	26.1	26.1	3.28	25.1	25.1	3.62	24.1	24.1	4.02
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section	Size	Cooling			Indoor Section	Size	Cooling									
		Capacity	Power				Capacity	Power								
CC5A/CD5A/CD5BA	030	0.97	0.99		FF1(A,B)NA	030	0.97	1.00								
	036	1.00	1.00		FG3AAA	036	0.99	1.00								
CC5A/CD5A/CD5BW	030	0.97	0.99		FK4BNF	001	0.97	0.96								
CD3(A,B)A	030	0.97	0.99			002	0.99	0.96								
	036	1.00	1.00			003	1.01	0.92								
CD5A/CD5BW	036	1.00	1.00			004	1.01	0.93								
CD3CA	030	0.97	1.00		COILS + 58MVP040-14 VARIABLE SPEED FURNACE											
	036	0.98	1.01		CC5A/CD5A/CD5BA	036	1.00	0.95								
CE3AA	030	0.97	1.00		CD3(A,B)A	036	1.00	0.95								
	036	0.98	1.00		COILS + 58MVP060-14 VARIABLE SPEED FURNACE											
CF5AA	036	0.99	1.00		CC5A/CD5A/CD5BA	036	1.00	0.95								
CG5AA	036	0.99	1.00		CD3(A,B)A	036	1.00	0.95								
F(A,B)4ANF	030	0.96	0.97		COILS + 58MVP080-14 VARIABLE SPEED FURNACE											
	036	0.99	1.01		CC5A/CD5A/CD5BA	036	1.01	0.95								
FC4BNF	030	0.97	0.99		CD3(A,B)A	036	1.01	0.95								
	033	1.00	1.00		COILS + 58MVP100-20 VARIABLE SPEED FURNACE											
	036	0.99	1.01		CC5A/CD5A/CD5BA	036	1.01	0.95								
FD3ANA	030	0.97	1.01		CD3(A,B)A	036	1.01	0.95								

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA036-30 Outdoor Section With CC5A/CD5A/CD5BA042 Indoor Section																
1050	72	39.1	19.4	3.18	37.6	18.8	3.50	35.9	18.2	3.82	34.0	17.5	4.14	32.2	16.9	4.47
	67	35.9	24.6	3.13	34.4	24.0	3.43	32.9	23.4	3.75	31.2	22.7	4.04	29.4	22.0	4.35
	62	32.9	29.7	3.08	31.5	29.0	3.37	30.0	28.2	3.64	28.4	27.4	3.94	26.9	26.5	4.23
	57	31.5	31.5	3.04	30.4	30.4	3.33	29.2	29.2	3.63	28.0	28.0	3.93	26.7	26.7	4.23
1200	72	39.7	20.2	3.25	38.1	19.6	3.56	36.4	19.0	3.89	34.4	18.3	4.21	32.5	17.7	4.54
	67	36.5	26.1	3.19	35.0	25.5	3.50	33.4	24.9	3.81	31.5	24.1	4.11	29.8	23.5	4.42
	62	33.5	31.6	3.14	32.1	30.9	3.44	30.5	30.0	3.72	29.0	29.0	4.02	27.6	27.6	4.32
	57	32.7	32.7	3.13	31.6	31.6	3.43	30.3	30.3	3.71	29.0	29.0	4.02	27.6	27.6	4.33
1350	72	40.1	21.0	3.30	38.5	20.4	3.63	36.7	19.8	3.96	34.7	19.1	4.28	32.8	18.5	4.61
	67	36.9	27.6	3.25	35.4	26.9	3.56	33.7	26.3	3.88	31.8	25.5	4.18	30.0	24.8	4.49
	62	34.0	33.3	3.20	32.6	32.4	3.50	31.2	31.2	3.81	29.8	29.8	4.10	28.3	28.3	4.42
	57	33.7	33.7	3.20	32.5	32.5	3.50	31.1	31.1	3.79	29.8	29.8	4.11	28.3	28.3	4.42

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	036	0.99	1.00	FG3AAA	036	0.98	1.00
	042	1.00	1.00		001	0.97	0.98
CD5A/CD5BW	036	0.99	1.00		002	0.98	0.98
CD3(A,B)A	036	0.99	1.00		003	0.99	0.95
	042	0.99	1.00	FK4BNB	004	0.99	0.95
CC5A/CD5A/CD5BW	042	0.99	1.00		005	1.03	0.94
CD3AA	036	0.98	1.00		006	1.03	0.93
	042	0.98	1.00	COILS + 58MVP040-14 VARIABLE SPEED FURNACE			
CE3AA	036	0.98	1.00	CC5A/CD5A/CD5BA	042	0.99	0.94
	042	1.00	1.00	CD3(A,B)A	042	0.99	0.94
CF5AA	036	0.99	1.00	COILS + 58MVP060-14 VARIABLE SPEED FURNACE			
CG5AA	036	0.99	1.00	CC5A/CD5A/CD5BA	042	0.99	0.94
F(A,B)4ANF	036	0.98	1.02	CD3(A,B)A	042	0.99	0.94
F(A,B)4AN(F,B)	042	0.99	1.01	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
FC4BNF	033	0.99	1.01	CC5A/CD5A/CD5BA	042	0.99	0.94
	036	0.98	1.02	CD3(A,B)A	042	0.99	0.94
	038	1.03	1.03	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
FC4BN(F,B)	042	0.99	1.01	CC5A/CD5A/CD5BA	042	0.99	0.94
FC4BNB	054	1.05	1.01	CD3(A,B)A	042	0.99	0.94

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA042-30 Outdoor Section With CC5A/CD5A/CD5BA048 Indoor Section																
1225	72	45.9	22.5	3.76	44.1	21.8	4.14	42.1	21.1	4.54	40.1	20.3	4.94	37.9	19.6	5.34
	67	42.1	28.4	3.69	40.4	27.7	4.06	38.6	26.9	4.44	36.7	26.1	4.82	34.6	25.3	5.20
	62	38.5	34.2	3.63	36.8	33.4	3.98	35.2	32.5	4.34	33.3	31.5	4.67	31.4	30.5	5.03
	57	36.5	36.5	3.58	35.2	35.2	3.93	33.9	33.9	4.28	32.5	32.5	4.65	31.0	31.0	5.01
1400	72	46.6	23.4	3.83	44.7	22.7	4.22	42.7	22.0	4.62	40.6	21.2	5.03	38.4	20.4	5.43
	67	42.8	30.0	3.77	41.0	29.3	4.14	39.1	28.5	4.52	37.1	27.7	4.90	35.1	26.9	5.29
	62	39.2	36.3	3.71	37.5	35.4	4.06	35.8	34.5	4.42	33.8	33.4	4.76	32.0	32.0	5.13
	57	37.9	37.9	3.69	36.6	36.6	4.04	35.1	35.1	4.41	33.7	33.7	4.78	32.0	32.0	5.13
1575	72	47.1	24.3	3.91	45.2	23.6	4.30	43.1	22.8	4.70	41.0	22.1	5.11	38.7	21.3	5.52
	67	43.3	31.6	3.84	41.5	30.8	4.22	39.6	30.1	4.60	37.5	29.3	4.99	35.4	28.4	5.37
	62	39.7	38.2	3.78	38.1	37.3	4.14	36.3	36.1	4.50	34.6	34.6	4.88	32.8	32.8	5.24
	57	39.0	39.0	3.77	37.7	37.7	4.13	36.2	36.2	4.50	34.6	34.6	4.88	32.8	32.8	5.24

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CD5A/CD5BA	048	1.00	1.00	FC4BN(F,B)	042	0.99	1.01
CC5A/CD5A/CD5BA	042	1.00	1.00		048	1.00	1.02
CD3(A,B)A	042	1.00	1.00	FC4BNB	054	1.04	1.01
	048	1.00	1.00	FG3AAA	048	1.00	1.00
CC5A/CD5A/CD5BW	042	0.99	1.00	FK4BNB	003	1.00	0.94
	048	1.00	1.00		005	1.04	0.96
CC5A/CD5A/CD5BC	048	0.99	1.00		006	1.04	0.95
CD3CA	042	0.96	1.00	COILS + 58MVP080-14 VARIABLE SPEED FURNACE			
	048	0.99	1.00	CD5A/CD5BA	048	0.99	0.94
CE3AA	042	1.00	1.00	CD3(A,B)A	048	0.99	0.94
	048	1.01	1.00	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
CF5AA	048	1.00	1.00	CD5A/CD5BA	048	0.99	0.94
CG5AA	048	1.00	1.00	CD3(A,B)A	048	0.99	0.94
F(A,B)4AN(F,B)	042	0.99	1.01		—	—	—
	048	1.01	1.02		—	—	—

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA048-30 Outdoor Section With CC5A/CD5A/CD5BA060 Indoor Section																
1500	72	52.3	25.6	4.37	50.2	24.8	4.90	47.9	24.0	5.48	45.6	23.1	6.11	43.1	22.2	6.78
	67	48.3	32.5	4.35	46.3	31.7	4.87	44.2	30.8	5.45	42.1	29.9	6.08	39.8	29.0	6.73
	62	44.4	39.2	4.34	42.5	38.3	4.86	40.6	37.3	5.43	38.5	36.2	6.05	36.5	35.1	6.70
	57	42.0	42.0	4.29	40.5	40.5	4.81	39.0	39.0	5.38	37.4	37.4	5.99	35.7	35.7	6.64
1700	72	53.1	26.6	4.45	50.8	25.8	4.97	48.5	24.9	5.55	46.1	24.1	6.19	43.5	23.1	6.86
	67	49.1	34.2	4.42	47.0	33.4	4.95	44.8	32.5	5.52	42.5	31.6	6.15	40.2	30.6	6.81
	62	45.1	41.5	4.41	43.2	40.5	4.93	41.2	39.4	5.50	39.1	38.2	6.12	37.1	36.8	6.78
	57	43.4	43.4	4.37	41.8	41.8	4.89	40.2	40.2	5.46	38.5	38.5	6.08	36.8	36.8	6.73
1800	72	53.4	27.0	4.49	51.1	26.2	5.01	48.7	25.4	5.59	46.3	24.5	6.22	43.7	23.6	6.90
	67	49.3	35.0	4.46	47.3	34.2	4.98	45.1	33.3	5.56	42.8	32.4	6.19	40.4	31.4	6.85
	62	45.4	42.5	4.44	43.5	41.5	4.97	41.5	40.3	5.54	39.4	39.0	6.16	37.4	37.4	6.82
	57	44.0	44.0	4.41	42.4	42.4	4.93	40.8	40.8	5.50	39.1	39.1	6.12	37.3	37.3	6.78

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BA	060	1.00	1.00	F(A,B)4AN(F,B)	048	0.99	1.02
CD5A/CD5BA	048	0.99	1.00		060	1.02	1.03
CD3(A,B)A	048	0.99	1.00	FB4ANB	070	1.02	1.02
	060	1.00	1.00	FC4BN(F,B)	048	1.00	1.02
CC5A/CD5A/CD5BC	048	0.96	0.98	FC4BNB	054	1.02	1.01
CC5A/CD5A/CD5BW	048	0.98	1.00		070	1.02	1.02
CD3CA	060	1.02	1.00	FC4BN(F,B)	060	1.02	1.03
	048	0.99	1.00	FG3AAA	048	0.98	1.00
CE3AA	060	1.00	1.00		060	1.02	1.00
	048	0.99	0.99	FK4BNB	006	1.03	0.95
CF5AA	060	1.02	1.00	COILS + 58MVP100-20 VARIABLE SPEED FURNACE			
	048	1.00	0.98	CC5A/CD5A/CD5BW	060	1.00	0.96
CG5AA	048	1.00	0.98		—	—	—

See notes on pg. 15.

Detailed cooling capacities* continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
		Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**	Capacity MBtuh†		Total System KW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
38TUA060-30 Outdoor Section With CC5A/CD5A/CD5BW060 Indoor Section																
1750	72	63.6	31.1	5.22	61.1	30.2	5.70	58.6	29.2	6.21	55.6	28.2	6.73	52.5	27.0	7.28
	67	58.4	39.3	5.14	56.1	38.3	5.60	53.8	37.4	6.10	51.4	36.4	6.64	48.7	35.3	7.22
	62	53.5	47.3	5.06	51.4	46.3	5.51	49.2	45.2	6.00	46.9	44.0	6.53	44.5	42.8	7.10
	57	50.7	50.7	5.01	49.1	49.1	5.47	47.4	47.4	5.96	45.6	45.6	6.49	43.7	43.7	7.06
2000	72	64.5	32.4	5.32	62.0	31.4	5.80	59.3	30.5	6.31	56.3	29.4	6.83	53.4	28.4	7.42
	67	59.3	41.5	5.23	57.0	40.5	5.70	54.5	39.5	6.20	52.0	38.5	6.74	49.3	37.4	7.32
	62	54.4	50.2	5.15	52.2	49.1	5.60	50.0	47.9	6.10	47.7	46.6	6.63	45.3	45.0	7.20
	57	52.5	52.5	5.12	50.8	50.8	5.58	49.0	49.0	6.07	47.1	47.1	6.61	45.0	45.0	7.18
2250	72	65.2	33.5	5.42	62.6	32.6	5.90	59.9	31.6	6.41	56.7	30.5	6.93	54.1	29.6	7.55
	67	60.3	43.7	5.35	57.6	42.7	5.80	55.1	41.7	6.30	52.5	40.6	6.84	49.7	39.5	7.42
	62	55.4	53.0	5.28	53.2	51.8	5.74	50.7	50.2	6.20	48.4	48.4	6.73	46.2	46.2	7.31
	57	54.2	54.2	5.25	52.4	52.4	5.72	50.5	50.5	6.22	48.3	48.3	6.72	46.1	46.1	7.30

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5A/CD5BW	060	1.00	1.00	FB4ANB	070	1.04	1.02
CC5A/CD5A/CD5BA	060	0.96	0.98	FC4BNB	070	1.04	1.02
CD3(A,B)A	060	0.96	0.98	FC4BN(F,B)	060	1.01	1.04
CD3CA	060	1.00	1.00	FC4BNB	054	1.02	0.99
	070	1.01	1.00	FG3AAA	060	1.00	1.00
CE3AA	060	1.02	1.00	FK4BNB	006	1.03	0.97
F(A,B)4AN(F,B)	060	1.02	1.04		—	—	—

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI Standard 210/240-89. 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 total of indoor and outdoor unit kilowatts.

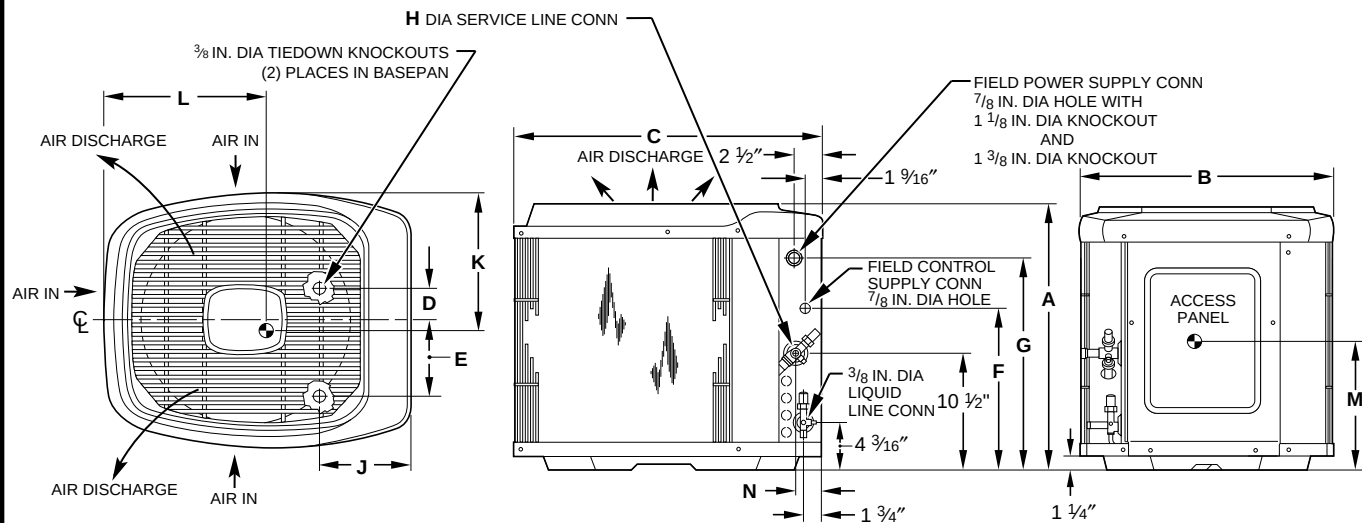
System Design

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 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 = 50 ft, indoor coil below = 150 ft. (See items 6 and 7 following.)
6. For interconnecting refrigerant tube lengths greater than 50 ft, consult Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnecting refrigerant tube length exceeds 50 ft.
8. Not more than 3 ft of refrigerant tube should be buried in the ground. If necessary to bury tubes under a sidewalk, provide a minimum 6-in. vertical rise to the valve connections at the unit.
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Mixmatches of indoor coil capacity more than 1 size larger than outdoor unit capacity may result in inadequate indoor comfort.
11. Do not apply capillary tube indoor coils to these units.

Dimensions

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	H	J	K	L	M	N	SHIPPING WEIGHT
			In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
38TUA018	0	X	27 ¹³ / ₁₆	22 ½	27 ½	2 ¹³ / ₁₆	6 ¹⁵ / ₁₆	21 ½	27 7/8	5/8	8 ³ / ₁₆	12	14 5/8	11	2 ¾	143#
38TUA024	0	X	27 ¹³ / ₁₆	22 ½	27 ½	2 ¹³ / ₁₆	6 ¹⁵ / ₁₆	21 ½	27 7/8	5/8	8 ³ / ₁₆	12	14 5/8	11	2 ¾	148#
38TUA030	0	X	33 ¹³ / ₁₆	22 ½	27 ½	2 ¹³ / ₁₆	6 ¹⁵ / ₁₆	21 ½	27 7/8	5/8	8 ³ / ₁₆	11 ½	14 ¾	13 ½	2 ¾	158#
38TUA036	0	X	27 ¹³ / ₁₆	30	34 ¹⁵ / ₁₆	4	9 ¾	15 ½	21 7/8	¾	8 ³ / ₁₆	16 ¼	10 ³ / ₁₆	11	2 ¹⁵ / ₁₆	205#
38TUA042	0	X	33 ¹³ / ₁₆	30	34 ¹⁵ / ₁₆	4	9 ¾	21 ½	27 7/8	7/8	8 ³ / ₁₆	16 ½	10 ⁹ / ₁₆	13 ½	2 ¹⁵ / ₁₆	218#
38TUA048	0	X	33 ¹³ / ₁₆	30	34 ¹⁵ / ₁₆	4	9 ¾	21 ½	27 7/8	7/8	8 ³ / ₁₆	16 7/8	10 ³ / ₁₆	13 ½	2 ¹⁵ / ₁₆	252#
38TUA060	0	X	39 ¹³ / ₁₆	30	34 ¹⁵ / ₁₆	4	9 ¾	27 ½	33 7/8	7/8	8 ³ / ₁₆	16 ¾	10 ⁷ / ₁₆	15	2 ¹⁵ / ₁₆	292#

208/230-1-60



NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" 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

A95083

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- Installation Overview
- Operating Sequence

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