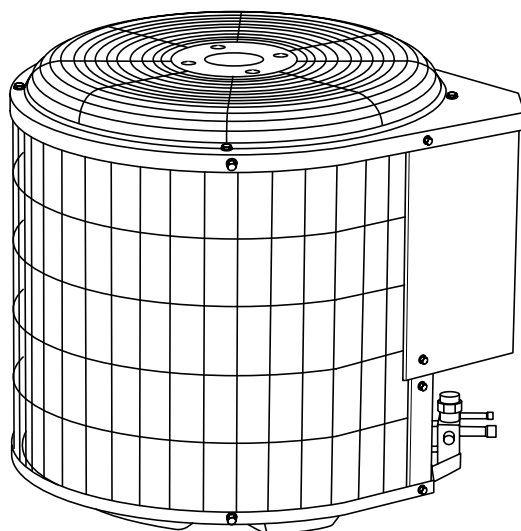




Heating & Cooling



Model PA12

ELECTRIC AIR CONDITIONER

FEATURES

AVAILABLE SIZES: Nominal sizes are available from 018 through 060 to meet the needs of residential and light commercial applications.

CERTIFICATION: All models are listed with UL, (U.S. and Canada), ARI, and CEC.

ELECTRICAL RANGE: Units are offered in 208-230v, single phase.

FAN MOTOR: The totally enclosed fan motor provides greater reliability under adverse conditions and dependable performance for many years. The permanent split capacitor type motor was designed for optimum efficiency. The motor was then qualified under extreme conditions to help ensure a long, reliable life.

CABINET: A weather protective cabinet of prepainted steel is protected underneath by a galvanized coating and treated with a layer of zinc phosphate for a finish that will last for many years. All screws on cabinet exterior are coated for a long-lasting, rust-resistant, quality appearance.

UNIT DESIGN: The copper tube, enhanced sine wave, 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. The base pan is designed for easy removal of water, dirt, and leaves.

COMPRESSOR: Each compressor is protected with internal temperature- and current-sensitive overloads. An internal pressure relief valve provides high-pressure protection to the refrigerant system. For improved serviceability, all models are equipped with a compressor terminal plug.

SERVICE VALVES: Both service valves are brass, front 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.

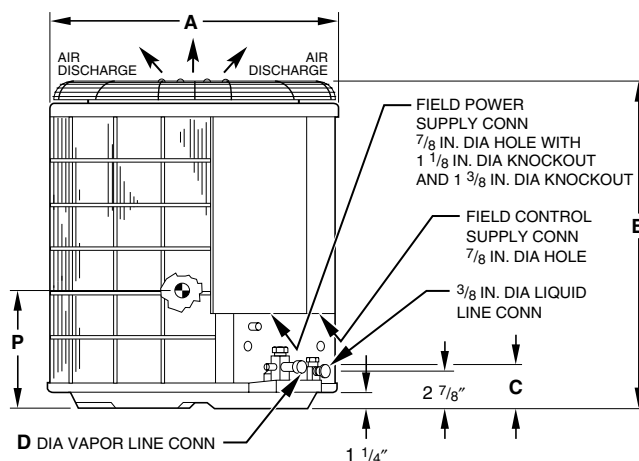
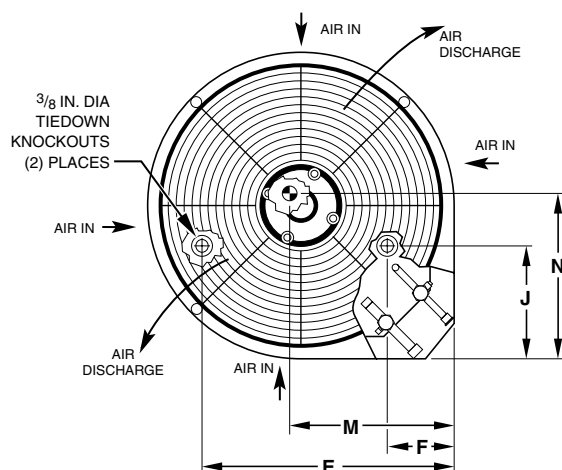
SERVICEABILITY: One access panel provides access to electrical controls. Removal of top gives access to fan motor, compressor, and condenser coil.

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 max 125°F.

3. Series designation is the 14th position of the unit model number.

4. Center of gravity 



A96237

DIMENSIONS (IN.)

UNIT SIZE	SERIES	A	B	C	D	E	F	J	M	N	P	SHIPPING WEIGHT (Lb)
018	G	22-1/2	31-15/16	3-3/16	5/8	18-1/2	4-1/16	8-3/16	12-1/8	12-1/4	11	143
024	G	30	23-15/16	3-3/16	5/8	23-1/2	6-1/2	10	14-3/4	14	11	152
030	G, H	30	27-15/16	3-3/16	3/4	23-1/2	6-1/2	10	14-3/4	14	11	164
036	G, H	30	27-15/16	3-3/16	3/4	23-1/2	6-1/2	10	14-3/4	14	11	169
042	G, H	30	33-15/16	3-1/4	7/8	23-1/2	6-1/2	10	14-3/4	14	15	183
048	G	30	33-15/16	3-1/4	7/8	23-1/2	6-1/2	10	15-1/2	14-3/4	15	253
060	G	30	39-15/16	3-1/4	7/8	23-1/2	6-1/2	10	15-1/2	14-3/4	15	267



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

ISO 9001:2000



CERTIFICATE NO. FM 28768

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

REGISTERED QUALITY SYSTEM.

SPECIFICATIONS

UNIT SIZE	018	024	030	036
SERIES	G	G	G/H	G/H
ELECTRICAL				
Unit Volts—Hertz—Phase	208-230—60—1			
Operating Voltage Range*	187—253			
Compressor—Rated Load Amps	9.0	10.9	15.0/14.1	17.9/14.7
Locked Rotor Amps	41.0	54.0	72.5/68.0	88.0/77.0
Condenser Fan Motor—Full Load Amps	0.5	0.5	0.8	1.1
Min Unit Ampacity for Wire Sizing	11.8	14.2	19.6/18.4	23.5/19.5
Min Wire Size (60°/75° Copper) AWG**	14/14	14/14	14/14	12/12
Max Wire Length (60°/75°) (Ft)‡	66/62	53/50	39/37/41/39	52/50/63/60
Max Branch Circuit Fuse Size†	20	25	30	30
COMPRESSOR AND REFRIGERANT				
Compressor—Manufacturer	Copeland			
Type	Scroll			
Temperature and Current Protection	Internal Line Break			
Refrigerant—Type and Amount (Lb) @ 15 ft	R-22 4.75	R-22 5.25	R-22 6.00	R-22 6.25
Refrigerant Tubes (In. OD) Vapor and Liquid (Up to 50 Ft)	5/8 and 3/8		3/4 and 3/8	
CONDENSER COIL AND FAN				
Coil Face Area (Sq Ft)	10.17	10.71	12.85	
Fan Motor—HP, Type, and RPM	1/12 PSC and 1100	1/15 PSC and 825	1/8 PSC and 825	1/5 PSC and 825
Volts—Hertz—Phase	208/230—60—1			
Condenser Airflow (CFM)	1700	2000	3000/2400	3000/2800
OPTIONAL EQUIPMENT				
Cycle Protector	KSACY0101AAA			
Start Assist—PTC Type	KAACS0201PTC			
Start Assist—Capacitor/Relay Type	KSAHS1501AAA			
MotorMaster® Control #	KSALA0401AAA			
Ball Bearing Fan Motor (RCD)	HC34GE232	N/A	HC38GE231	
Low-Pressure Switch	KAALP0101LPS			
High-Pressure Switch	KSAHI0101HPS			
Sound Hood	KSASH1801COP			KSASH1901CYL
Time-Delay Relay	KAATD0101TDR			
Low-Ambient Kit	KSALA0210R22			
Winter Start Control	KAAWS0101AAA			
Evaporator Freeze Thermostat	KAAFT0101AAA			
Crankcase Heater	KAACH1201AAA			
Liquid Line Solenoid Valve††	KAALS0101LLS			
Inlet Grille Kit	KSAPG0604TSM	KSAPG1104TMD	KSAPG1304TMD	
Coastal Filter	KAACF1001MED	KAACF1101LRG		
Filter Drier (RCD)	KH45LD065			
TXV Kit (RPB)	KAATX0201RPB		KAATX0301RPB	KAATX0401RPB
TXV (Hard Shutoff)††		KSATX0601HSO		
Standard Thermostat, Manual Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool		TSTATPPBAC01		
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool		TSTATPPPPAC01		
Outdoor Sensor		TSTATXXSEN01-B		
Backplate for Standard Thermostat		TSTATXXBBP01		
Backplate for Programmable Thermostat		TSTATXXBPB01		

See notes on page 4.

SPECIFICATIONS Continued

UNIT SIZE	042	048	060
SERIES	G/H	G	G
ELECTRICAL			
Unit Volts—Hertz—Phase	208-230—60—1		
Operating Voltage Range*	187—253		
Compressor—Rated Load Amps	20.0/19.2	19.7	28.8
Locked Rotor Amps	104.0	137.0	148.0
Condenser Fan Motor—Full Load Amps	1.1	1.1	1.4
Min Unit Ampacity for Wire Sizing	26.1/25.1	25.7	37.4
Min Wire Size (60°/75° Copper) AWG**	10/10	10/10	8/8
Max Wire Length (60°/75°) (Ft)‡	74/70/77/73	74/70	82/78
Max Branch Circuit Fuse Size†	40	40	50
COMPRESSOR AND REFRIGERANT			
Compressor—Manufacturer	Copeland		
Type	Scroll		
Temperature and Current Protection	Internal Line Break		
Refrigerant—Type and Amount (Lb) @ 15 ft	R-22 6.50	R-22 8.75	R-22 11.50
Refrigerant Tubes (In. OD) Vapor and Liquid (Up to 50 Ft)	7/8 and 3/8		
CONDENSER COIL AND FAN			
Coil Face Area (Sq Ft)	16.1	16.1	19.3
Fan Motor—HP, Type, and RPM	1/5 PSC and 825		1/4 PSC and 1125
Volts—Hertz—Phase	208/230—60—1		
Condenser Airflow (CFM)	3000/2800	3000	3400
OPTIONAL EQUIPMENT			
Cycle Protector	KSACY0101AAA		
Start Assist—PTC Type	KAACS0201PTC		
Start Assist—Capacitor/Relay Type	KSASH1501AAA	KSASH1601AAA	
MotorMaster® Control #	KSALA0401AAA		
Ball Bearing Fan Motor (RCD)	HC38GE231	HC40GE232	
Low-Pressure Switch	KAALP0101LPS		
High-Pressure Switch	KSAHI0101HPS		
Sound Hood	KSASH1901CYL	KSASH0601COP	KSASH2101COP
Time-Delay Relay	KAATD0101TDR		
Low-Ambient Kit	KSALA0201R22		
Winter Start Control	KAAWS0101AAA		
Evaporator Freeze Thermostat	KAAFT0101AAA		
Crankcase Heater	KAACH1201AAA		
Liquid Line Solenoid Valve††	KAALS0101LLS		
Inlet Grille Kit	KSAPG1604TMD		KSAPG1904TMD
Coastal Filter	KAACF1101LRG		
Filter Drier (RCD)	KH43LE062		
TXV Kit (RPB)	KAATX0501RPB	KAATX0601RPB	KAATX0701RPB
TXV (Hard Shutoff)††	KSATX0601HSO	KSATX0701HSO	KSATX1001HSO
Standard Thermostat, Manual Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATPPBAC01		
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATPPAC01		
Outdoor Sensor	TSTATXXSEN01-B		
Backplate for Standard Thermostat	TSTATXXBBP01		
Backplate for Programmable Thermostat	TSTATXXBP01		

N/A—Not applicable in this application.

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

† Time-delay fuse or circuit breaker.

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

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

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

†† Do not use hard shutoff TXV with liquid solenoid valve.

Requires ball-bearing fan motor.

NOTES: 1. Control circuit is 24v on all units and requires external power source.
2. All motors/compressors contain internal overload protection.
3. Copper wire must be used from service disconnect to unit.

OPTIONAL EQUIPMENT 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
MotorMaster® Control	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 horizontal and/or 20 ft vertical differential, refer to Residential Split Systems Long-Line Application Guidelines.

† Only when low-pressure switch is used.

ACCESSORY DESCRIPTION AND USAGE (Listed Alphabetically)

1. Ball-Bearing Fan Motor

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

Usage Guideline:

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

2. Coastal Filter

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

3. Compressor Start Assist – Capacitor and Relay

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

Usage Guideline:

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

Long line
Low ambient
Hard shut off expansion valve on indoor coil
Liquid line solenoid on indoor coil

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

Long line
Low ambient

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

4. Compressor Start Assist – PTC Type

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

Usage Guideline:

Suggested when compressor power supply is marginal

Suggested in reciprocating single-phase compressor applications with rapid pressure balance (RPB) expansion valve on indoor coil.

5. Crankcase Heater

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

Usage Guideline:

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

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.

Usage Guideline:

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 that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

8. Filter Drier

A device for removing contaminants from refrigerant circulating in an air conditioning system: single-direction flow.

Usage Guideline:

Suggested in all field-connected split-system air conditioners.

ACCESSORY DESCRIPTION AND USAGE (continued)

9. 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 426 ± 10 psig and resets at 320 ± 20 psig. Provides protection against compressor damage due to loss of outdoor airflow.

Usage Guideline:

Suggested in installations exposed to "very dirty" outdoor air.

Suggested in installations where condenser inlet air temperature exceeds 125°F (51.7°C).

10. Inlet Grille Kit

A field-installed enhanced inlet grille to replace the standard inlet grille on residential air conditioners and heat pumps.

Usage Guideline:

For greater protection against inclement weather, incidental damage, and vandalism.

11. Liquid-Line Solenoid Valve (LLS)

This device serves two purposes. It is an electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It maintains a column of refrigerant liquid ready for action at next compressor operation cycle. It also provides system protection against off-cycle refrigerant migration.

NOTE: When LLS is used with reciprocating compressors, Compressor Start Assist — Capacitor and Relay is required.

Usage Guideline:

Required in air conditioner long line applications with a piston indoor metering device to prevent off cycle refrigerant migration. A hard shut off TXV can be used instead of LLS in single flow air conditioner applications. See Long Line Application Guideline.

12. 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 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F (−17.8°C) when properly installed.

Usage Guideline:

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

13. 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. Provides additional protection against compressor damage due to loss of refrigerant charge. To prevent rapid compressor recycling, Cycle Protector can be used with this switch.

Usage Guideline:

Where indoor coil is exposed to "dirty" air.

All commercial installations.

14. MotorMaster®-Low-Ambient Controller

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

Usage Guideline:

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

Suggested for all commercial applications.

15. Outdoor Air Temperature Sensor

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

Usage Guideline:

Suggested for all Payne thermostats listed in this publication.

16. Sound Hood

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

Usage Guideline:

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

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

17. Thermostatic Expansion Valve (TXV) Single-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator. Kit includes valve, adapter tubes, and external equalizer tube. Both hard shutoff and RPB valves are available.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist — Capacitor and Relay is required.

Usage Guideline:

Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

18. Time-Delay Relay

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

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

Usage Guideline:

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

19. 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.

Usage Guideline:

All air conditioners to which Low-Pressure Switch and Low-Ambient Controller have been added.

A-WEIGHTED SOUND POWER (dBA)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (Without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018-G	76	53.0	59.0	65.5	71.0	64.5	60.0	54.5
024-G	78	50.0	60.5	67.5	73.0	62.5	57.0	53.5
030-G	78	51.5	61.5	68.0	73.0	65.5	63.5	59.0
030-H	78	56.0	67.0	67.0	70.0	65.0	60.0	53.5
036-G	80	53.5	73.0	69.0	72.0	69.5	65.5	61.5
036-H	80	52.5	65.5	67.5	73.0	66.5	63.5	60.0
042-G	80	53.5	62.0	68.5	72.0	69.5	65.5	60.0
042-H	80	57.0	62.0	68.0	73.5	69.0	68.5	64.5
048-G	80	53.0	61.5	66.0	72.0	66.5	64.5	58.5
060-G	80	54.5	64.0	70.5	71.0	68.0	67.5	60.0

NOTE: Tested in accordance with ARI standard 270.95 (Not listed with ARI)

METERING DEVICE

UNIT SIZE-SERIES	PISTON* IDENTIFICATION NO.
018-G	52
024-G	59
030-G, H	70
036-G, H	73
042-G, H	82, 80
048-G	90
060-G	101

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

RATINGS AND PERFORMANCE

UNIT SIZE-SERIES	INDOOR MODEL	COOLING CAPACITY	FACTORY SUPPLIED ENHANCE- MENT	SEER			EERA
				STANDARD RATING	Payne GAS FURNACE OR ACCESSORY	ACCESSORY	
					TDR†	TXV‡	
018-G	*CC5A/CD5AA018	17,000	NONE	—	12.00	12.00	10.90
	CC5A/CD5AA024	17,600	NONE	—	12.00	12.00	11.05
	CC5A/CD5AW024	17,600	NONE	—	12.00	12.00	11.05
	CE3AA024	17,600	NONE	—	12.00	12.00	11.10
	CF5AA024	17,600	NONE	—	12.00	12.00	11.05
	CK3BA024	17,600	NONE	—	12.00	12.00	11.25
	CK5A/CK5BA018	17,000	NONE	—	12.00	12.00	11.05
	CK5A/CK5BA024	17,600	NONE	—	12.00	12.00	11.25
	CK5A/CK5BW024	17,600	NONE	—	12.00	12.00	11.25
	FF1DNA018	17,000	TDR	12.00	—	12.00	11.35
	FF1DNA024	17,600	TDR	12.00	—	12.00	11.20
	FF1DNE018	17,000	TDR&TXV	12.00	—	—	11.35
	FF1DNE024	17,600	TDR&TXV	12.00	—	—	11.35
	PF1MNB018	17,000	TDR	12.00	—	12.00	11.00
	PF1MNB024	17,600	TDR	12.50	—	12.50	11.35
024-G	*CC5A/CD5AA024	23,000	NONE	—	12.00	12.00	10.75
	CC5A/CD5AA030	23,200	NONE	—	12.00	12.00	10.75
	CC5A/CD5AW024	23,000	NONE	—	12.00	12.00	10.75
	CC5A/CD5AW030	23,200	NONE	—	12.00	12.00	10.75
	CE3AA024	23,400	NONE	—	12.00	12.00	10.80
	CE3AA030	23,600	NONE	—	12.00	12.00	10.90
	CF5AA024	23,000	NONE	—	12.00	12.00	10.70
	CK3BA024	23,000	NONE	—	12.00	12.00	10.80
	CK3BA030	23,400	NONE	—	12.00	12.00	10.80
	CK5A/CK5BA024	23,000	NONE	—	12.00	12.00	10.90
	CK5A/CK5BA030	23,400	NONE	—	12.00	12.00	10.85
	CK5A/CK5BW024	23,000	NONE	—	12.00	12.00	10.90
	CK5A/CK5BW030	23,400	NONE	—	12.00	12.00	10.80
	FF1DNA024	23,200	TDR	12.00	—	12.00	10.75
	FF1DNA030	23,400	TDR	12.00	—	12.00	10.90
	FF1DNE024	23,200	TDR&TXV	12.00	—	—	10.80
	FF1DNE030	23,400	TDR&TXV	12.00	—	—	10.95
	PF1MNB024	23,200	TDR	12.00	—	12.00	11.25
	PF1MNB030	23,600	TDR	12.00	—	12.00	11.10
030-G	*CC5A/CD5AA030	29,000	NONE	—	12.00	12.00	10.60
	CC5A/CD5AA036	29,600	NONE	—	12.00	12.00	10.90
	CC5A/CD5AW030	29,000	NONE	—	12.00	12.00	10.60
	CC5A/CD5AW036	29,600	NONE	—	12.00	12.00	10.95
	CE3AA030	29,000	NONE	—	12.00	12.00	10.75
	CE3AA036	29,600	NONE	—	12.00	12.00	10.80
	CF5AA036	29,600	NONE	—	12.00	12.00	10.90
	CK3BA030	29,000	NONE	—	12.00	12.00	10.65
	CK3BA036	29,600	NONE	—	12.00	12.00	10.90
	CK5A/CK5BA030	29,000	NONE	—	12.00	12.00	10.65
	CK5A/CK5BA036	29,600	NONE	—	12.00	12.00	10.90
	CK5A/CK5BT036	29,600	NONE	—	12.00	12.00	10.95
	CK5A/CK5BW030	29,000	NONE	—	12.00	12.00	10.65
	CK5A/CK5BW036	29,600	NONE	—	12.00	12.00	10.95
	FF1DNA030	29,000	TDR	12.00	—	12.00	10.75
	FF1DNE030	29,200	TDR&TXV	12.00	—	—	10.75
	PF1MNB030	29,200	TDR	12.00	—	12.00	10.85
	PF1MNB036	29,600	TDR	12.00	—	12.00	10.70
030-H	*CC5A/CD5AA030	28,000	NONE	—	12.00	12.00	11.05
	CC5A/CD5AA036	29,000	NONE	—	12.00	12.00	11.30
	CC5A/CD5AW030	28,000	NONE	—	12.00	12.00	11.05
	CC5A/CD5AW036	29,000	NONE	—	12.00	12.00	11.30
	CE3AA030	28,000	NONE	—	12.00	12.00	11.20
	CE3AA036	28,600	NONE	—	12.00	12.00	11.20
	CF5AA036	29,000	NONE	—	12.00	12.00	11.30
	CK3BA030	28,000	NONE	—	12.00	12.00	11.05
	CK3BA036	29,000	NONE	—	12.00	12.00	11.35
	CK5A/CK5BA030	28,000	NONE	—	12.00	12.00	11.10
	CK5A/CK5BA036	29,000	NONE	—	12.00	12.00	11.35
	CK5A/CK5BT036	29,000	NONE	—	12.00	12.00	11.35
	CK5A/CK5BW030	28,000	NONE	—	12.00	12.00	11.10
	CK5A/CK5BW036	29,000	NONE	—	12.00	12.00	11.35
	FF1DNA030	28,000	TDR	12.00	—	12.00	11.35
	FF1DNE030	28,000	TDR&TXV	12.00	—	—	11.35
	PF1MNB030	28,000	TDR	12.00	—	12.00	11.30
	PF1MNB036	28,600	TDR	12.00	—	12.00	11.05
036-G	*CC5A/CD5AA036	35,000	NONE	—	12.00	12.00	10.40
	CC5A/CD5AA042	35,000	NONE	—	12.00	12.00	10.40
	CC5A/CD5AW036	35,000	NONE	—	12.00	12.00	10.40
	CC5A/CD5AW042	35,000	NONE	—	12.00	12.00	10.25
	CE3AA036	35,000	NONE	—	11.80	11.80	10.30
	CE3AA042	35,400	NONE	—	12.00	12.00	10.45
	CF5AA036	35,000	NONE	—	12.00	12.00	10.35
	CK3BA036	35,000	NONE	—	12.00	12.00	10.40
	CK3BA042	35,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BA036	35,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BA042	35,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BE042	35,000	NONE	—	12.00	12.00	10.45

See notes on page 10.

RATINGS AND PERFORMANCE Continued

UNIT SIZE-SERIES	INDOOR MODEL	COOLING CAPACITY	FACTORY SUPPLIED ENHANCE- MENT	SEER			EERA
				STANDARD RATING	Payne GAS FURNACE OR ACCESSORY TDR†	ACCESSORY	
						TXV‡	
036-G	CK5A/CK5BT036	35,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BT042	35,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BW036	35,000	NONE	—	12.00	12.00	10.40
	PF1MNB036	35,000	TDR	11.50	—	11.50	10.10
	PF1MNB042	35,400	TDR	12.00	—	12.00	10.35
	PF1MNB071	36,000	TDR&TXV	14.00	—	—	12.05
036-H	*CC5A/CD5AA036	35,000	NONE	—	12.00	12.00	10.75
	CC5A/CD5AA042	35,000	NONE	—	12.00	12.00	10.75
	CC5A/CD5AW036	35,000	NONE	—	12.00	12.00	10.75
	CC5A/CD5AW042	35,000	NONE	—	12.00	12.00	10.60
	CE3AA036	35,000	NONE	—	12.00	12.00	10.65
	CE3AA042	35,000	NONE	—	12.00	12.00	10.80
	CF5AA036	35,000	NONE	—	12.00	12.00	10.70
	CK3BA036	35,000	NONE	—	12.00	12.00	10.75
	CK3BA042	35,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BA036	35,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BA042	35,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BE042	35,000	NONE	—	12.00	12.00	10.85
	CK5A/CK5BT036	35,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BT042	35,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BW036	35,000	NONE	—	12.00	12.00	10.75
	PF1MNB036	35,000	TDR	11.50	—	11.50	10.45
	PF1MNB042	35,600	TDR	12.00	—	12.00	10.70
	PF1MNB071	36,000	TDR&TXV	14.00	—	—	12.45
042-G	*CC5A/CD5AA042	40,000	NONE	—	12.00	12.00	10.35
	CC5A/CD5AC048	39,500	NONE	—	11.80	11.80	10.20
	CC5A/CD5AW042	40,000	NONE	—	12.00	12.00	10.20
	CC5A/CD5AW048	40,500	NONE	—	12.00	12.00	10.35
	CD5AA048	40,500	NONE	—	12.00	12.00	10.35
	CE3AA042	40,000	NONE	—	12.00	12.00	10.40
	CE3AA048	40,500	NONE	—	12.00	12.00	10.45
	CF5AA048	40,000	NONE	—	12.00	12.00	10.35
	CK3BA042	40,000	NONE	—	12.00	12.00	10.35
	CK3BA048	40,500	NONE	—	12.00	12.00	10.40
	CK5A/CK5BA042	40,000	NONE	—	12.00	12.00	10.35
	CK5A/CK5BA048	40,500	NONE	—	12.00	12.00	10.40
	CK5A/CK5BE042	40,000	NONE	—	12.00	12.00	10.40
	CK5A/CK5BT042	40,000	NONE	—	12.00	12.00	10.35
	CK5A/CK5BT048	40,500	NONE	—	12.00	12.00	10.40
	CK5A/CK5BW048	40,500	NONE	—	12.00	12.00	10.40
	PF1MNB042	40,000	TDR	11.80	—	11.80	10.20
	PF1MNB048	40,500	TDR	12.00	—	12.00	10.40
	PF1MNB071	42,000	TDR&TXV	13.50	—	—	11.90
042-H	*CC5A/CD5AA042	40,000	NONE	—	12.00	12.00	11.00
	CC5A/CD5AC048	40,000	NONE	—	12.00	12.00	10.85
	CC5A/CD5AW042	40,000	NONE	—	12.00	12.00	10.85
	CC5A/CD5AW048	40,500	NONE	—	12.00	12.00	11.00
	CD5AA048	40,500	NONE	—	12.00	12.00	11.00
	CE3AA042	40,000	NONE	—	12.00	12.00	11.05
	CE3AA048	40,500	NONE	—	12.00	12.00	11.10
	CF5AA048	40,500	NONE	—	12.00	12.00	11.05
	CK3BA042	40,000	NONE	—	12.00	12.00	11.00
	CK3BA048	40,500	NONE	—	12.00	12.00	11.05
	CK5A/CK5BA042	40,000	NONE	—	12.00	12.00	11.00
	CK5A/CK5BA048	40,500	NONE	—	12.00	12.00	11.05
	CK5A/CK5BE042	40,000	NONE	—	12.00	12.00	11.05
	CK5A/CK5BT042	40,000	NONE	—	12.00	12.00	11.00
	CK5A/CK5BT048	40,500	NONE	—	12.00	12.00	11.05
	CK5A/CK5BW048	40,500	NONE	—	12.00	12.00	11.05
	PF1MNB042	40,000	TDR	11.50	—	11.50	10.85
	PF1MNB048	40,500	TDR	12.00	—	12.00	11.05
	PF1MNB071	42,000	TDR&TXV	13.50	—	—	12.75
048-G	*CD5AA048	47,000	NONE	—	12.00	12.00	10.70
	CC5A/CD5AA060	47,500	NONE	—	12.00	12.00	10.70
	CC5A/CD5AC048	46,500	NONE	—	11.80	11.80	10.60
	CC5A/CD5AW048	47,000	NONE	—	12.00	12.00	10.70
	CC5A/CD5AW060	48,000	NONE	—	12.00	12.00	10.95
	CE3AA048	47,000	NONE	—	12.00	12.00	10.80
	CE3AA060	47,500	NONE	—	12.00	12.00	11.00
	CF5AA048	47,000	NONE	—	12.00	12.00	10.75
	CK3BA048	47,000	NONE	—	12.00	12.00	10.75
	CK3BA060	47,500	NONE	—	12.00	12.00	10.95
	CK5A/CK5BA048	47,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BA060	47,500	NONE	—	12.00	12.00	10.95
	CK5A/CK5BT048	47,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BT060	47,500	NONE	—	12.00	12.00	10.95
	CK5A/CK5BW048	47,000	NONE	—	12.00	12.00	10.75
	CK5A/CK5BX060	48,000	NONE	—	12.00	12.00	11.10
	PF1MNB048	47,000	TDR	12.00	—	12.00	10.65
	PF1MNB060	47,500	TDR	12.00	—	12.00	10.70
	PF1MNB070	48,000	TDR	12.50	—	12.50	11.05
	PF1MNB071	48,000	TDR&TXV	13.00	—	—	12.10

See notes on page 10.

RATINGS AND PERFORMANCE Continued

UNIT SIZE-SERIES	INDOOR MODEL	COOLING CAPACITY	FACTORY SUPPLIED ENHANCE- MENT	SEER			EERA
				STANDARD RATING	Payne GAS FURNACE OR ACCESSORY TDR†	ACCESSORY	
						TXV‡	
060-G	*CC5A/CD5AW060	57,000	NONE	—	12.00	12.00	10.55
	CC5A/CD5AA060	54,000	NONE	—	11.50	11.50	10.35
	CE3AA060	57,000	NONE	—	12.00	12.00	10.65
	CK3BA060	55,000	NONE	—	11.50	11.50	10.50
	CK5A/CK5BA060	55,000	NONE	—	11.50	11.50	10.50
	CK5A/CK5BT060	55,000	NONE	—	11.50	11.50	10.50
	CK5A/CK5BX060	57,000	NONE	—	12.00	12.00	10.75
	PF1MNB060	57,000	TDR	11.50	—	11.50	10.10
	PF1MNB070	58,000	TDR	12.00	—	12.00	10.55
	PF1MNB071	58,000	TDR&TXV	12.50	—	—	11.40

* 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. Most Payne furnaces are equipped with TDR.

‡ Requires hard shutoff TXV; based on computer simulation.

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. Minimum outdoor operating ambient in cooling mode is 55°F (12.8°C), maximum 115°F (46.1°C).

DETAILED COOLING CAPACITIES*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		75			85			95			105			115		
CFM	EWB	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PA12NA018-G Outdoor Section With CC5A/CD5AA024 Indoor Section																
525	72	18.34	9.35	1.24	18.62	9.65	1.38	18.35	9.63	1.54	17.69	9.51	1.71	16.79	9.08	1.89
	67	17.71	12.13	1.23	17.35	12.07	1.37	16.69	11.92	1.52	15.83	11.55	1.67	14.95	11.19	1.83
	62	16.31	14.53	1.22	15.62	14.27	1.36	14.90	13.91	1.49	14.11	13.49	1.63	13.27	13.02	1.79
	57	15.43	15.43	1.21	14.91	14.91	1.34	14.38	14.38	1.48	13.76	13.76	1.62	13.09	13.09	1.78
600	72	18.41	9.51	1.27	18.72	9.87	1.41	18.59	9.97	1.57	17.93	9.93	1.74	17.11	9.53	1.93
	67	17.86	12.55	1.26	17.65	12.67	1.40	17.00	12.52	1.56	16.14	12.27	1.71	15.24	11.90	1.87
	62	16.64	15.34	1.25	16.00	15.18	1.38	15.23	14.75	1.52	14.42	14.42	1.67	13.64	13.64	1.83
	57	16.06	16.06	1.24	15.53	15.53	1.38	14.95	14.95	1.52	14.33	14.33	1.67	13.65	13.65	1.83
675	72	18.33	9.58	1.30	18.75	10.04	1.44	18.73	10.27	1.60	18.24	10.24	1.77	17.42	10.03	1.96
	67	17.92	12.87	1.29	17.86	13.28	1.43	17.21	13.23	1.58	16.41	12.99	1.75	15.47	12.61	1.91
	62	16.89	16.07	1.28	16.28	15.90	1.41	15.53	15.53	1.56	14.84	14.84	1.71	14.11	14.11	1.87
	57	16.54	16.54	1.27	16.06	16.06	1.41	15.48	15.48	1.56	14.85	14.85	1.71	14.12	14.12	1.87
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5AA		018	1.00		CK5A/CK5BW		024	1.04								
		024	1.04				018	1.00								
CC5A/CD5AW		024	1.04		FF1DNE		024	1.04								
CE3AA		024	1.04				018	1.00								
CF5AA		024	1.04				024	1.04								
CK3BA		024	1.04		PF1MNB		018	1.00								
CK5A/CK5BA		018	1.00				024	1.04								
		024	1.04				—									
PA12NA024-G Outdoor Section With CC5A/CD5AA024 Indoor Section																
700	72	25.63	13.24	1.72	25.54	13.35	1.91	24.93	13.23	2.13	23.90	13.00	2.36	22.59	12.41	2.61
	67	24.28	16.86	1.70	23.58	16.76	1.89	22.62	16.55	2.10	21.31	15.88	2.30	20.03	15.36	2.51
	62	22.13	20.13	1.67	21.13	19.69	1.86	20.11	19.16	2.04	19.00	18.54	2.23	17.80	17.80	2.44
	57	21.13	21.13	1.66	20.38	20.38	1.84	19.61	19.61	2.03	18.72	18.72	2.23	17.77	17.77	2.44
800	72	25.63	13.41	1.77	25.69	13.73	1.97	25.23	13.75	2.18	24.22	13.58	2.41	23.02	13.10	2.67
	67	24.56	17.62	1.75	23.98	17.71	1.94	23.00	17.55	2.15	21.70	16.94	2.37	20.39	16.41	2.58
	62	22.62	21.34	1.73	21.65	20.91	1.91	20.52	20.52	2.10	19.51	19.51	2.30	18.51	18.51	2.52
	57	22.00	22.00	1.72	21.25	21.25	1.90	20.41	20.41	2.10	19.51	19.51	2.30	18.49	18.49	2.53
900	72	25.62	13.59	1.82	25.69	13.96	2.02	25.39	14.17	2.23	24.40	14.08	2.46	23.27	13.68	2.72
	67	24.70	18.29	1.81	24.23	18.56	1.99	23.24	18.34	2.20	21.97	17.92	2.43	20.63	17.38	2.64
	62	22.99	22.47	1.78	22.07	22.07	1.96	21.10	21.10	2.16	20.16	20.16	2.37	19.12	19.12	2.59
	57	22.68	22.68	1.77	21.96	21.96	1.96	21.35	21.35	2.18	20.17	20.17	2.37	19.13	19.13	2.59
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling								
			Capacity	Power				Capacity	Power							
CC5A/CD5AA		024	1.00		CK5A/CK5BA		024	1.00								
		030	1.01				030	1.02								
CC5A/CD5AW		024	1.00		CK5A/CK5BW		024	1.00								
		030	1.01				030	1.02								
CE3AA		024	1.02		FF1DNA		024	1.01								
		030	1.03				030	1.02								
CF5AA		024	1.00		FF1DNE		024	1.01								
CK3BA		024	1.00				030	1.02								
		030	1.02		PF1MNB		024	1.01								
							030	1.03								

See notes on page 15.

DETAILED COOLING CAPACITIES*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		75			85			95			105			115		
CFM	EWB	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PA12NA030-G Outdoor Section With CC5A/CD5AA030 Indoor Section																
875	72	33.4	16.2	2.17	32.3	15.8	2.38	31.2	15.3	2.60	30.0	14.9	2.85	28.8	14.4	3.14
	67	30.5	20.3	2.15	29.5	19.8	2.35	28.5	19.4	2.58	27.4	18.9	2.85	26.2	18.5	3.12
	62	27.8	24.3	2.13	26.8	23.8	2.34	25.9	23.3	2.56	24.9	22.8	2.80	23.8	22.2	3.08
	57	26.2	26.2	2.12	25.4	25.4	2.33	24.7	24.7	2.54	23.9	23.9	2.79	23.1	23.1	3.09
1000	72	34.1	16.9	2.22	32.9	16.5	2.42	31.7	16.0	2.65	30.5	15.6	2.91	29.3	15.1	3.20
	67	31.1	21.4	2.20	30.1	21.0	2.40	29.0	20.6	2.64	27.8	20.1	2.88	26.7	19.6	3.16
	62	28.4	25.8	2.18	27.4	25.3	2.39	26.4	24.8	2.61	25.3	24.2	2.86	24.3	23.6	3.13
	57	27.2	27.2	2.17	26.4	26.4	2.38	25.6	25.6	2.60	24.8	24.8	2.84	24.0	24.0	3.14
1125	72	34.6	17.5	2.27	33.4	17.1	2.46	32.2	16.6	2.70	30.9	16.2	2.96	29.6	15.7	3.25
	67	31.6	22.6	2.24	30.6	22.1	2.45	29.4	21.6	2.67	28.2	21.2	2.92	27.0	20.7	3.23
	62	28.9	27.2	2.23	27.9	26.7	2.43	26.8	26.1	2.66	25.8	25.4	2.91	24.7	24.7	3.19
	57	28.1	28.1	2.22	27.3	27.3	2.43	26.4	26.4	2.65	25.5	25.5	2.89	24.7	24.7	3.19
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling				Indoor Section		Unit Size	Cooling						
			Capacity		Power					Capacity		Power				
CC5A/CD5AA		030	1.00		1.00		CK5A/CK5BA		030	1.00		1.00				
		036	1.02		0.99				036	1.02		0.99				
CC5A/CD5AW		030	1.00		1.00		CK5A/CK5BT		036	1.02		0.99				
		036	1.02		0.99				CK5A/CK5BW		030	1.00		1.00		
CE3AA		030	1.00		0.99		FF1DNA				036	1.02		0.99		
		036	1.02		1.00				030	1.00		0.99				
CF5AA		036	1.02		0.99		FF1DNE		030	1.01		0.99				
CK3BA		030	1.00		1.00		PF1MNB		030	1.01		0.98				
		036	1.02		0.99				036	1.02		1.01				
PA12NA030-H Outdoor Section With CC5A/CD5AA030 Indoor Section																
875	72	31.51	16.40	2.06	31.17	16.46	2.27	30.28	16.24	2.51	29.03	15.80	2.78	27.67	15.33	3.08
	67	29.68	20.88	2.04	28.71	20.66	2.25	27.48	20.23	2.49	26.14	19.67	2.76	24.73	19.10	3.02
	62	27.01	24.81	2.01	26.20	24.49	2.25	24.73	23.72	2.45	23.54	23.03	2.69	22.19	22.19	2.95
	57	25.98	25.98	2.02	25.10	25.10	2.22	24.20	24.20	2.44	23.23	23.23	2.68	22.15	22.15	2.95
1000	72	31.68	16.81	2.11	31.42	16.97	2.33	30.66	16.89	2.57	29.47	16.53	2.84	28.08	16.09	3.13
	67	30.08	21.92	2.09	29.19	21.86	2.30	28.00	21.52	2.55	26.67	21.04	2.82	25.11	20.38	3.09
	62	27.60	26.40	2.06	26.47	25.86	2.29	25.29	25.29	2.51	24.15	24.15	2.76	23.00	23.00	3.02
	57	27.00	27.00	2.06	26.10	26.10	2.28	25.19	25.19	2.51	24.16	24.16	2.76	23.02	23.02	3.02
1125	72	31.74	17.09	2.16	31.56	17.41	2.38	30.89	17.46	2.62	29.74	17.17	2.89	28.35	16.78	3.18
	67	30.31	22.80	2.14	29.54	22.95	2.35	28.37	22.68	2.60	26.96	22.20	2.87	25.39	21.57	3.15
	62	28.00	28.00	2.11	27.05	27.05	2.33	25.98	25.98	2.58	24.91	24.91	2.82	23.76	23.76	3.09
	57	27.85	27.85	2.11	27.00	27.00	2.33	25.99	25.99	2.58	24.89	24.89	2.83	23.74	23.74	3.10
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling				Indoor Section		Unit Size	Cooling						
			Capacity		Power					Capacity		Power				
CC5A/CD5AA		030	1.00		1.00		CK5A/CK5BA		030	1.00		1.00				
		036	1.04		1.01				036	1.04		1.01				
CC5A/CD5AW		030	1.00		1.00		CK5A/CK5BT		036	1.04		1.01				
		036	1.04		1.01				CK5A/CK5BW		030	1.00		1.00		
CE3AA		030	1.00		0.99		FF1DNA				036	1.04		1.01		
		036	1.02		1.01				030	1.00		0.97				
CF5AA		036	1.04		1.01		FF1DNE		030	1.00		0.97				
CK3BA		030	1.00		1.00		PF1MNB		030	1.00		0.98				
		036	1.04		1.01				036	1.02		1.02				

See notes on page 15.

DETAILED COOLING CAPACITIES*

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F																	
		75				85				95				105				115	
CFM	EWB	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**	Capacity MBtuh†		Total System kW**			
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡				
PA12NA036-G Outdoor Section With CC5A/CD5AA036 Indoor Section																			
1050	72	40.4	19.9	2.73	39.1	19.4	3.02	37.6	18.8	3.31	36.1	18.2	3.64	34.4	17.6	4.00			
	67	37.2	25.1	2.72	35.8	24.6	2.98	34.5	24.0	3.27	33.1	23.5	3.63	31.5	22.8	3.98			
	62	34.0	30.2	2.69	32.8	29.6	2.96	31.5	29.0	3.27	30.2	28.3	3.58	28.8	27.6	3.93			
	57	32.4	32.4	2.67	31.4	31.4	2.94	30.5	30.5	3.25	29.4	29.4	3.59	28.2	28.2	3.93			
1200	72	41.2	20.8	2.81	39.8	20.2	3.07	38.2	19.7	3.37	36.5	19.1	3.70	35.0	18.5	4.09			
	67	37.8	26.7	2.77	36.5	26.1	3.04	35.0	25.5	3.33	33.6	24.9	3.68	32.0	24.3	4.04			
	62	34.7	32.2	2.75	33.4	31.6	3.01	32.2	30.9	3.32	30.8	30.1	3.63	29.4	29.2	4.02			
	57	33.6	33.6	2.74	32.7	32.7	3.01	31.6	31.6	3.32	30.5	30.5	3.64	29.2	29.2	3.99			
1350	72	41.7	21.6	2.86	40.2	21.0	3.13	38.6	20.5	3.43	37.1	19.9	3.78	35.3	19.3	4.14			
	67	38.3	28.1	2.83	37.0	27.5	3.10	35.5	27.0	3.41	34.0	26.4	3.74	32.3	25.7	4.09			
	62	35.2	34.0	2.81	34.0	33.3	3.07	32.7	32.4	3.37	31.4	31.4	3.72	30.1	30.1	4.07			
	57	34.7	34.7	2.80	33.7	33.7	3.08	32.5	32.5	3.37	31.3	31.3	3.70	30.1	30.1	4.09			
Multipliers for Determining the Performance With Other Indoor Sections																			
Indoor Section		Unit Size	Cooling				Indoor Section	Unit Size	Cooling										
			Capacity		Power				Capacity		Power								
CC5A/CD5AA		036	1.00		1.00		CK5A/CK5BA		036	1.00		1.00							
		042	1.00		1.00				042	1.00		1.00							
CC5A/CD5AW		036	1.00		1.00		CK5A/CK5BE		042	1.00		0.99							
		042	1.00		1.01				036	1.00		1.00							
CE3AA		036	1.00		1.01		CK5A/CK5BT		042	1.00		1.00							
		042	1.01		1.01				036	1.00		1.00							
CF5AA		036	1.00		1.01		PF1MNB		036	1.00		1.03							
CK3BA		036	1.00		1.00				042	1.01		1.02							
		042	1.00		1.00				071	1.03		0.89							
PA12NA036-H Outdoor Section With CC5A/CD5AA036 Indoor Section																			
1050	72	40.4	19.9	2.73	39.1	19.4	3.02	37.6	18.8	3.31	36.1	18.2	3.64	34.4	17.6	4.00			
	67	37.2	25.1	2.72	35.8	24.6	2.98	34.5	24.0	3.27	33.1	23.5	3.63	31.5	22.8	3.98			
	62	34.0	30.2	2.69	32.8	29.6	2.96	31.5	29.0	3.27	30.2	28.3	3.58	28.8	27.6	3.93			
	57	32.4	32.4	2.67	31.4	31.4	2.94	30.5	30.5	3.25	29.4	29.4	3.59	28.2	28.2	3.93			
1200	72	41.2	20.8	2.81	39.8	20.2	3.07	38.2	19.7	3.37	36.5	19.1	3.70	35.0	18.5	4.09			
	67	37.8	26.7	2.77	36.5	26.1	3.04	35.0	25.5	3.33	33.6	24.9	3.68	32.0	24.3	4.04			
	62	34.7	32.2	2.75	33.4	31.6	3.01	32.2	30.9	3.32	30.8	30.1	3.63	29.4	29.2	4.02			
	57	33.6	33.6	2.74	32.7	32.7	3.01	31.6	31.6	3.32	30.5	30.5	3.64	29.2	29.2	3.99			
1350	72	41.7	21.6	2.86	40.2	21.0	3.13	38.6	20.5	3.43	37.1	19.9	3.78	35.3	19.3	4.14			
	67	38.3	28.1	2.83	37.0	27.5	3.10	35.5	27.0	3.41	34.0	26.4	3.74	32.3	25.7	4.09			
	62	35.2	34.0	2.81	34.0	33.3	3.07	32.7	32.4	3.37	31.4	31.4	3.72	30.1	30.1	4.07			
	57	34.7	34.7	2.80	33.7	33.7	3.08	32.5	32.5	3.37	31.3	31.3	3.70	30.1	30.1	4.09			
Multipliers for Determining the Performance With Other Indoor Sections																			
Indoor Section		Unit Size	Cooling				Indoor Section	Unit Size	Cooling										
			Capacity		Power				Capacity		Power								
CC5A/CD5AA		036	1.00		1.00		CK5A/CK5BA		036	1.00		1.00							
		042	1.00		1.00				042	1.00		1.00							
CC5A/CD5AW		036	1.00		1.00		CK5A/CK5BE		042	1.00		0.99							
		042	1.00		1.01				036	1.00		1.00							
CE3AA		036	1.00		1.01		CK5A/CK5BT		042	1.00		1.00							
		042	1.00		0.99				036	1.00		1.00							
CF5AA		036	1.00		1.00		PF1MNB		036	1.00		1.03							
CK3BA		036	1.00		1.00				042	1.02		1.02							
		042	1.00		1.00				071	1.03		0.89							

See notes on page 15.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		75			85			95			105			115		
		Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PA12NA042-G Outdoor Section With CC5A/CD5AA042 Indoor Section																
1225	72	46.4	22.7	3.13	44.6	22.1	3.44	42.9	21.4	3.79	41.1	20.8	4.18	39.1	20.0	4.58
	67	42.5	28.7	3.09	41.0	28.0	3.41	39.3	27.3	3.73	37.7	26.6	4.12	35.9	25.9	4.53
	62	38.9	34.4	3.05	37.5	33.7	3.36	35.9	32.9	3.68	34.4	32.2	4.06	32.8	31.3	4.47
	57	37.0	37.0	3.03	35.9	35.9	3.34	34.6	34.6	3.66	33.4	33.4	4.05	32.1	32.1	4.46
1400	72	47.2	23.7	3.21	45.4	23.0	3.51	43.6	22.4	3.86	41.8	21.7	4.25	39.6	21.0	4.66
	67	43.4	30.4	3.16	41.7	29.7	3.46	40.0	29.0	3.81	38.3	28.3	4.19	36.4	27.6	4.61
	62	39.7	36.7	3.12	38.2	35.9	3.44	36.6	35.1	3.76	35.1	34.2	4.14	33.5	33.1	4.55
	57	38.4	38.4	3.10	37.2	37.2	3.42	35.9	35.9	3.75	34.6	34.6	4.13	33.2	33.2	4.55
1575	72	47.8	24.6	3.28	46.0	23.9	3.59	44.1	23.3	3.94	42.3	22.6	4.33	40.0	21.8	4.73
	67	44.0	32.0	3.23	42.2	31.3	3.53	40.5	30.6	3.88	38.7	29.9	4.27	36.7	29.1	4.66
	62	40.3	38.7	3.19	38.9	37.8	3.51	37.3	36.8	3.84	35.7	35.7	4.22	34.2	34.2	4.63
	57	39.6	39.6	3.18	38.4	38.4	3.50	37.0	37.0	3.83	35.6	35.6	4.21	34.2	34.2	4.63
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling					Indoor Section	Unit Size	Cooling						
			Capacity	Power						Capacity	Power					
CC5A/CD5AA		042	1.00		1.00		CK5A/CK5BA		042	1.00		1.00				
CC5A/CD5AC		048	0.99		1.00					048	1.01		1.01			
CC5A/CD5AW		042	1.00		1.02		CK5A/CK5BE		042		1.00		0.99			
		048	1.01		1.01					042	1.00		1.00			
CD5AA		048	1.01		1.01		CK5A/CK5BT		048		1.01		1.01			
CE3AA		042	1.00		0.99					CK5A/CK5BW		048	1.01		1.01	
		048	1.01		1.00		PF1MNB		042				1.00		1.01	
CF5AA		048	1.00		1.00					048	1.01		1.01			
CK3BA		042	1.00		1.00				071		1.05		0.91			
		048	1.01		1.01		—			—		—				
PA12NA042-H Outdoor Section With CC5A/CD5AA042 Indoor Section																
1225	72	46.4	22.7	3.13	44.6	22.1	3.44	42.9	21.4	3.79	41.1	20.8	4.18	39.1	20.0	4.58
	67	42.5	28.7	3.09	41.0	28.0	3.41	39.3	27.3	3.73	37.7	26.6	4.12	35.9	25.9	4.53
	62	38.9	34.4	3.05	37.5	33.7	3.36	35.9	32.9	3.68	34.4	32.2	4.06	32.8	31.3	4.47
	57	37.0	37.0	3.03	35.9	35.9	3.34	34.6	34.6	3.66	33.4	33.4	4.05	32.1	32.1	4.46
1400	72	47.2	23.7	3.21	45.4	23.0	3.51	43.6	22.4	3.86	41.8	21.7	4.25	39.6	21.0	4.66
	67	43.4	30.4	3.16	41.7	29.7	3.46	40.0	29.0	3.81	38.3	28.3	4.19	36.4	27.6	4.61
	62	39.7	36.7	3.12	38.2	35.9	3.44	36.6	35.1	3.76	35.1	34.2	4.14	33.5	33.1	4.55
	57	38.4	38.4	3.10	37.2	37.2	3.42	35.9	35.9	3.75	34.6	34.6	4.13	33.2	33.2	4.55
1575	72	47.8	24.6	3.28	46.0	23.9	3.59	44.1	23.3	3.94	42.3	22.6	4.33	40.0	21.8	4.73
	67	44.0	32.0	3.23	42.2	31.3	3.53	40.5	30.6	3.88	38.7	29.9	4.27	36.7	29.1	4.66
	62	40.3	38.7	3.19	38.9	37.8	3.51	37.3	36.8	3.84	35.7	35.7	4.22	34.2	34.2	4.63
	57	39.6	39.6	3.18	38.4	38.4	3.50	37.0	37.0	3.83	35.6	35.6	4.21	34.2	34.2	4.63
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Unit Size	Cooling					Indoor Section	Unit Size	Cooling						
			Capacity	Power						Capacity	Power					
CC5A/CD5AA		042	1.00		1.00		CK5A/CK5BA		042	1.00		1.00				
CC5A/CD5AC		048	1.00		1.02					048	1.01		1.01			
CC5A/CD5AW		042	1.00		1.01		CK5A/CK5BE		042		1.00		0.99			
		048	1.01		1.01					042	1.00		1.00			
CD5AA		048	1.01		1.01		CK5A/CK5BT		048		1.01		1.01			
CE3AA		042	1.00		0.99					CK5A/CK5BW		048	1.01		1.01	
		048	1.01		1.00		PF1MNB		042				1.00		1.01	
CF5AA		048	1.01		1.01					048	1.01		1.01			
CK3BA		042	1.00		1.00				071		1.05		0.91			
		048	1.01		1.01		—			—		—				

See notes on page 15.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F															
		75			85			95			105			115			
CFM	EWB	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	Capacity MBtu/h†		Total System kW**	
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		
PA12NA048-G Outdoor Section With CC5A/CD5AA048 Indoor Section																	
1400	72	54.9	26.4	3.59	52.7	25.6	4.04	50.3	24.7	4.53	47.9	23.7	5.06	45.3	22.8	5.63	
	67	50.5	33.0	3.56	48.4	32.1	4.00	46.2	31.2	4.48	44.0	30.2	5.01	41.7	29.3	5.56	
	62	46.3	39.4	3.54	44.4	38.5	3.97	42.4	37.6	4.44	40.3	36.5	4.95	38.2	35.5	5.49	
	57	43.2	43.2	3.52	41.8	41.8	3.95	40.2	40.2	4.42	38.7	38.7	4.92	37.0	37.0	5.47	
1600	72	55.9	27.4	3.67	53.6	26.6	4.11	51.1	25.7	4.61	48.5	24.7	5.15	45.9	23.8	5.71	
	67	51.4	34.8	3.64	49.3	33.9	4.08	47.0	33.0	4.56	44.6	32.0	5.09	42.2	31.0	5.64	
	62	47.2	41.9	3.61	45.2	41.0	4.04	43.1	39.9	4.52	40.9	38.8	5.03	38.8	37.6	5.58	
	57	44.9	44.9	3.60	43.3	43.3	4.03	41.7	41.7	4.51	40.0	40.0	5.02	38.2	38.2	5.56	
1800	72	56.6	28.4	3.74	54.2	27.5	4.19	51.7	26.6	4.68	49.0	25.6	5.23	46.3	24.7	5.79	
	67	52.4	36.6	3.73	49.9	35.6	4.15	47.6	34.6	4.64	45.1	33.7	5.17	42.6	32.7	5.72	
	62	48.1	44.3	3.70	45.8	43.1	4.12	43.7	42.0	4.60	41.5	40.7	5.11	39.3	39.2	5.66	
	57	46.3	46.3	3.68	44.6	44.6	4.11	42.9	42.9	4.59	41.1	41.1	5.11	39.2	39.2	5.66	
Multipliers for Determining the Performance With Other Indoor Sections																	
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling									
			Capacity	Power				Capacity	Power								
CC5A/CD5AA		060	1.01		CK5A/CK5BA		048	1.00									
CC5A/CD5AC		048	0.99				060	1.01									
CC5A/CD5AW		048	1.00		CK5A/CK5BT		048	1.00									
		060	1.02				060	1.01									
CD5AA		048	1.00		CK5A/CK5BW		048	1.00									
CE3AA		048	1.00		CK5A/CK5BX PF1MNB		060	1.02									
		060	1.01				048	1.00									
CF5AA		048	0.99				060	1.01									
CK3BA		048	1.00				070	1.02									
		060	1.01				071	1.02									
PA12NA060-G Outdoor Section With CC5A/CD5AW060 Indoor Section																	
1750	72	66.1	32.2	4.39	63.8	31.3	4.88	61.4	30.4	5.41	58.5	29.4	5.98	55.5	28.3	6.60	
	67	60.8	40.6	4.35	58.6	39.7	4.82	56.2	38.6	5.33	53.5	37.5	5.89	50.7	36.4	6.51	
	62	55.7	48.7	4.31	53.7	47.8	4.78	51.4	46.6	5.27	49.0	45.4	5.83	46.5	44.2	6.44	
	57	52.7	52.7	4.29	51.0	51.0	4.73	49.3	49.3	5.26	47.5	47.5	5.81	45.5	45.5	6.43	
2000	72	67.4	33.6	4.51	65.1	32.7	4.99	62.3	31.7	5.51	59.3	30.6	6.07	56.2	29.5	6.70	
	67	62.1	42.9	4.46	59.6	41.9	4.92	57.0	40.8	5.43	54.2	39.7	5.99	51.3	38.5	6.61	
	62	56.9	51.9	4.43	54.7	50.8	4.87	52.3	49.5	5.37	49.7	48.2	5.93	47.5	46.8	6.56	
	57	54.6	54.6	4.39	52.9	52.9	4.86	51.1	51.1	5.36	49.0	49.0	5.92	46.9	46.9	6.54	
2250	72	68.2	34.8	4.60	65.8	33.9	5.09	62.9	32.9	5.61	59.8	31.8	6.18	56.5	30.7	6.80	
	67	62.9	45.1	4.56	60.4	44.1	5.02	57.6	43.0	5.53	55.0	42.0	6.10	51.7	40.7	6.70	
	62	57.7	54.7	4.51	55.4	53.4	4.97	53.2	52.1	5.49	50.7	50.5	6.05	48.5	48.5	6.69	
	57	56.4	56.4	4.51	54.5	54.5	4.96	52.4	52.4	5.46	50.6	50.6	6.05	48.1	48.1	6.65	
Multipliers for Determining the Performance With Other Indoor Sections																	
Indoor Section		Unit Size	Cooling		Indoor Section		Unit Size	Cooling									
			Capacity	Power				Capacity	Power								
CC5A/CD5AA		060	0.95		CK5A/CK5BT		060	0.96									
CC5A/CD5AW		060	1.00		CK5A/CK5BX		060	1.00									
CE3AA		060	1.00		PF1MNB		060	1.00									
CK3BA		060	0.96				070	1.02									
CK5A/CK5BA		060	0.96				071	1.02									

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation, per ARI Standard 210/240-94, and connected by 25 ft of tubing. If other than 25 ft of tubing is used and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

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

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

When the required data falls between the published data, interpolation may be performed.

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

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 115°F (46.1°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.
6. For interconnecting refrigerant tube lengths greater than 50 ft horizontal or 20 ft vertical differential, consult Residential Split System Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnecting refrigerant tube length exceeds 50 ft.
8. 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.
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: SS-PA12-05