40MB*C
Cassette Ductless System
Sizes 09 to 18

Carrier
turn to the experts

Product Data

NOTE: Image for illustration purposes only. Actual model may differ slightly.

INDUSTRY LEADING FEATURES / BENEFITS

A PERFECT BALANCE BETWEEN BUDGET LIMITS, ENERGY SAVINGS AND COMFORT.

The 40MB*C series ductless systems are a matched combination of an outdoor condensing unit and an indoor fan coil unit connected only by refrigerant tubing and wires.

The in−ceiling cassette fan coils are ideal for retrofit or modernization projects where a false ceiling is available. This selection of fan coils permits inexpensive and creative solutions to design problems such as:

- Add−ons to current space (an office or family room addition)
- Special space requirements
- When changes in the load cannot be handled by the existing system
- When adding air conditioning to spaces that are heated by hydronic or electric heat and have no ductwork
- Historical renovations or any application where preserving the look of the original structure is essential.

The ideal compliment to your ducted system when it is impractical or prohibitively expensive to use ductwork. These compact indoor fan coil units take up very little space in the room and do not obstruct windows. The fan coils are attractively styled to blend with most room decors.

Advanced system components incorporate innovative technology to provide reliable cooling performance at low sound levels.

LOW SOUND LEVELS

When noise is a concern, the ductless systems are the answer. The indoor units are whisper quiet. There are no compressors indoors, either in the conditioned space or directly over it, and there is none of the noise usually generated by air being forced through ductwork.

SECURE OPERATION

If security is an issue, outdoor and indoor units are connected only by refrigerant piping and wiring to prevent intruders from crawling through ductwork. In addition, since outdoor units can be installed close to an outside wall, coils are protected from vandals and severe weather.

FAST INSTALLATION

This compact ductless system is simple to install. A mounting bracket is standard with the indoor units and only wire and piping needs to run between indoor and outdoor units. These units are fast and easy to install ensuring minimal disruption to customers in the home or workplace. This makes the ductless systems the equipment of choice, especially in retrofit situations.

SIMPLE SERVICING AND MAINTENANCE

Removing the top panel on outdoor units provides immediate access to the control compartment, providing a service technician access to check unit operation. In addition, the draw−thru design of the outdoor section means that dirt accumulates on the outside surface of the coil. Coils can be cleaned quickly from inside using a pressure hose and detergent.

On all indoor units, service and maintenance expense is reduced due to easy−to−use cleanable filters. In addition, these cassette systems have extensive self−diagnostics to assist in troubleshooting.

BUILT − IN RELIABILITY

Ductless system indoor and outdoor units are designed to provide years of trouble−free operation.

The in−ceiling cassette units include protection against freeze−up and high evaporator temperatures on heat pumps.

The condensing units on heat pumps are protected by a three minute time delay before the compressor starts the over−current protection and the high temperature protection.

INDIVIDUAL ROOM COMFORT

Maximum comfort is provided because each space can be controlled individually based on usage pattern. The air sweep feature provided permits optimal room air mixing to eliminate hot and cold spots for occupant comfort. In addition, year−round comfort can be provided with heat pumps.

ECONOMICAL OPERATION

The ductless system design allows individual room heating or cooling when required. There is no need to run large supply−air fans or chilled water pumps to handle a few spaces with unique load patterns. In addition, because air is moved only in the space required, no energy is wasted moving air through ducts.

EASY−TO−USE CONTROLS

The in−ceiling cassette has microprocessor−based controls to provide the ultimate in comfort and efficiency. The user friendly wireless remote control provides the interface between user and the unit.

FACTORY INSTALLED CONDENSATE LIFT PUMP

Customizing these ductless systems to your application is easily accomplished. The factory installed condensate lift pump on the cassette fan coil unit provides installation flexibility.

OPTIONAL WIRED CONTROLLER

AGENCY LISTINGS

All systems are listed with AHRI (Air Conditioning, Heating & Refrigeration Institute), and ETL.

MODEL NUMBER NOMENCLATURE

INDOOR UNIT

40 MB Q B 09 C – – 3

40 = FAN COIL UNIT

MB = MODEL

SYSTEM TYPE
Q = HEAT PUMP

B = ALL MODELS

NOMINAL CAPACITY
09 – 3/4 TON
12 – 1 TON
18 – 1–1/2 TONS

VOLTAGE
3 = 208/230–1–60

NOT USED

INDOOR FAN COIL TYPE
C = CASSETTE

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

STANDARD FEATURES AND ACCESSORIES

Ease Of Installation	
Mounting Brackets	S
Low Voltage Controls	S
Comfort Features	
Microprocessor Controls	S
Wired Remote Control	A
Wireless Remote Control	S
Automatic Horizontal Air Sweep	S
Air Direction Control	S
Auto Restart Function	S
Cold Blow Protection On Heat Pumps	S
Freeze Protection Mode On Heat Pumps	S
Turbo Mode	S
Silence Mode	S
Auto Changeover On Heat Pumps	S
Follow Me	S
Energy Saving Features	
Sleep Mode	S
Stop/Start Timer	S
46°F Heating Mode (Heating Setback)	S
Safety And Reliability	
Indoor Coil Freeze Protection	S
Indoor Coil High Temp Protection in Heating Mode	S
Ease Of Service And Maintenance	
Cleanable Filters	S
Diagnostics	S
Liquid Line Pressure Taps	S
Application Flexibility	
Condensate Lift Pump	S

Legend
S Standard
A Accessory

ACCESSORIES

ORDERING NO.	DESCRIPTION	FOR MODELS
KSACN0101AAA	Wired Remote Control with Timer Function	All Sizes
KSACN0501AAA	Wired Remote Control 7 day Programmable	All Sizes
53DS−900−−−089	Insulated 25' Line Set − 1/4" x 3/8"	SIZE 09
40MBQB01C−−−	Grille/Ceiling Panel	All Sizes
53DS−900−−−008	Insulated 25' Line Set − 1/4" x 1/2"	Sizes 12, 18

INDOOR UNIT ACCESSORIES

Grille

To maximize shipping efficiency, the grille for the in−ceiling cassette is set up as an accessory.

NOTE: Grille is required.

DIMENSIONS – INDOOR

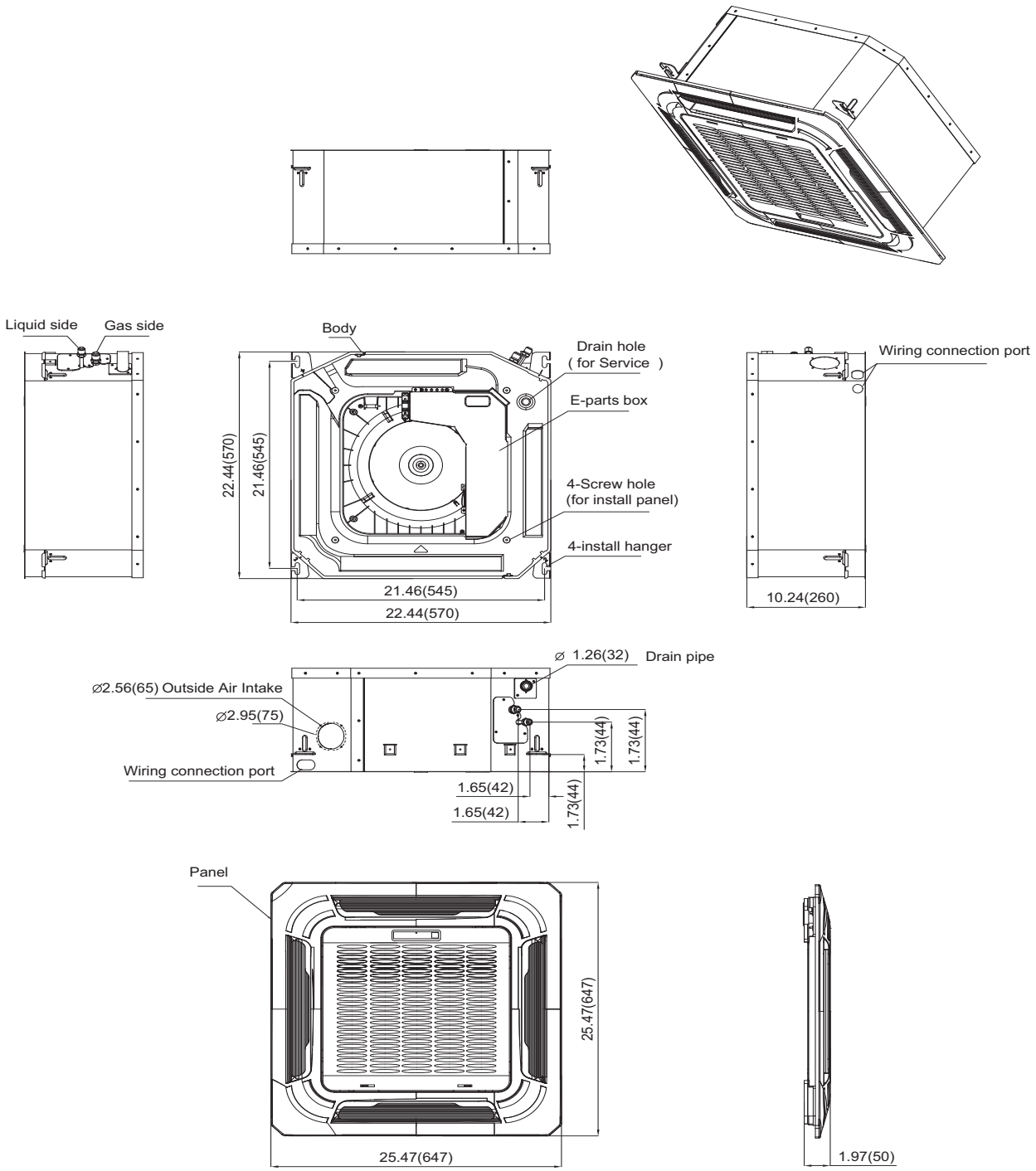

Fig. 1 – Indoor Unit

UNIT SIZE		9		12		18	
		BODY	PANEL	BODY	PANEL	BODY	PANEL
DIMENSIONS							
Height	in(mm)	10.24 (260)	1.97 (50)	10.24 (260)	1.97 (50)	10.24 (260)	1.97 (50)
Width	in(mm)	22.44 (570)	25.47 (647)	22.44 (570)	25.47 (647)	22.44 (570)	25.47 (647)
Depth	in(mm)	22.44 (570)	25.47 (647)	22.44 (570)	25.47 (647)	22.44 (570)	25.47 (647)
PACKING							
Height	in(mm)	11.42 (290)	4.84 (123)	11.42 (290)	4.84 (123)	11.42 (290)	4.84 (123)
Width	in(mm)	25.79 (655)	28.15 (715)	25.79 (655)	28.15 (715)	25.79 (655)	28.15 (715)
Depth	in(mm)	25.79 (655)	28.15 (715)	25.79 (655)	28.15 (715)	25.79 (655)	28.15 (715)
Weight−Gross	lbs(kg)	41.88 (19)	9.92 (4.5)	41.88 (19)	9.92 (4.5)	46.3 (21)	9.92 (4.5)
Weight−Net	lbs(kg)	35.27 (16)	5.51 (2.5)	35.27 (16)	5.51 (2.5)	39.68 (18)	5.51 (2.5)

CLEARANCES – INDOOR

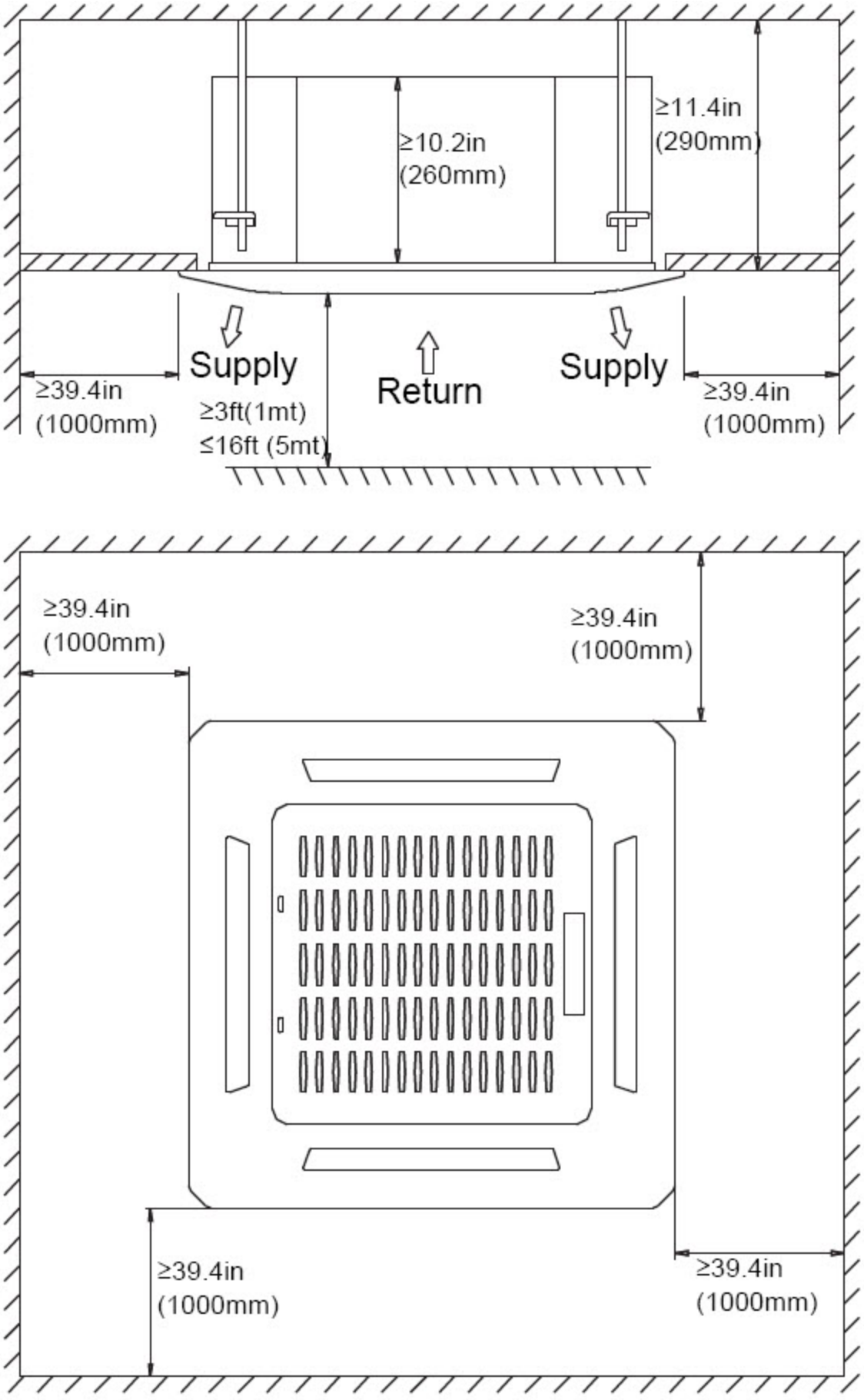

Fig. 2 – Indoor Unit Clearance

SPECIFICATIONS

HEAT PUMP					
System	SIZE		9	12	18
	Indoor Model		40MBQB09C−−3	40MBQB12C−−3	40MBQB18C−−3
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230−1−60	208/230−1−60	208/230−1−60
	Power Supply		Indoor unit powered from outdoor unit		
	MCA	A.	0.2	0.2	0.2
Controls	Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard
	Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional
Operating Range	Cooling Indoor DB Min − Max	°F(°C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
	Heating Indoor DB Min − Max	°F(°C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping	Pipe Connection Size − Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Pipe Connection Size − Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
Indoor Coil	Face Area	Sq. Ft.	3.1	3.1	3.1
	No. Rows		1	2	2
	Fins per inch		19	19	19
	Circuits		2	4	4
Indoor	Body Unit Width	in (mm)	22.44 (570)	22.44 (570)	22.44 (570)
	Body Unit Height	in (mm)	10.24 (260)	10.24 (260)	10.24 (260)
	Body Unit Depth	in (mm)	22.44 (570)	22.44 (570)	22.44 (570)
	Body Net Weight	lbs (kg)	35.27 (16)	35.27 (16)	39.68 (18)
	Panel Unit Width	in (mm)	25.47 (647)	25.47 (647)	25.47 (647)
	Panel Unit Height	in (mm)	1.97 (50)	1.97 (50)	1.97 (50)
	Panel Unit Depth	in (mm)	25.47 (647)	25.47 (647)	25.47 (647)
	Panel Net Weight	lbs (kg)	5.51 (2.5)	5.51 (2.5)	5.51 (2.5)
	Number of Fan Speeds		3	3	3
	Airflow (lowest to highest)	CFM	260/320/380	280/340/400	290/350/420
	Sound Pressure (lowest to highest)	dB(A)	34/39/44	36/39/42	46/48/50

Performance may vary based on the outdoor unit matched to. See the compatible outdoor unit pages for performance data.

COMPATIBILITY TABLE

INDOOR UNIT	40MBQB09C−−3	40MBQB12C−−3	40MBQB18C−−3
OUTDOOR UNIT	38MAQB09R−−3	38MAQB12R−−3	38MAQB18R−−3
	38MAQB09−−3	38MAQB12−−3	38MAQB18−−3
	38MGQC18−−3		
	38MGQD27−−3		
	38MGQF36−−3		
	38MGQF48−−3		

APPLICATION DATA

UNIT SELECTION

Select equipment to either match or handle slightly less than the anticipated peak load. This provides better humidity control, fewer unit cycles, and less part−load operation.

For units used in spaces with high sensible loads, base equipment selection on the unit sensible load, not on the total anticipated load. Adjust for anticipated room wet bulb temperature to avoid undersizing the equipment.

UNIT MOUNTING (INDOOR)

Refer to unit Installation Instructions for further details.

Unit leveling − For reliable operation, units should be level in all planes. Align and level the unit by adjusting the nuts and lock−nuts on the threaded hangers.

Clearance − A minimum of 12 inches (304.8 mm) of clearance is required in the false ceiling.

Unit location − Placing the unit in the center of the room provides the best air circulation and comfort. The unit return and discharge should not be obstructed by anything which may cause unit short cycling or air recirculation.

Installation Template − Fan coil units are supplied with a cardboard template to help match the position of the hangers, refrigerant lines, condensate drain pipe and power supply cable.

UNIT MOUNTING (OUTDOOR)

Refer to the unit's Installation Instructions for further details.

Do not install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your ductless representative.

SUPPORT

Adequate support must be provided to support the weight of all fan coils. Refer to the *Physical Data* section for fan coil weights, and the base unit dimensional drawings for the location of the mounting brackets.

SYSTEM OPERATING CONDITIONS

OPERATING RANGE Min / Max °F (°C)		
	Cooling	**Heating**
Indoor DB	63 / 90 (17 / 32)	32 / 86 (0 / 30)
Indoor WB	59 / 84 (15 / 29)	4.1 / 70.7 (-15.5 / 21.5)

NON−OPERATING TEMPERATURE RANGE Min / Max °F (°C)	
Indoor/Outdoor DB	32 / 86 (0 / 30)

NOTE: Reference the Product Installation Instructions for more information.

DRAIN CONNECTIONS

Install drains to meet local sanitation codes. The in−ceiling cassette is supplied with a condensate lift pump that is capable of lifting the water 29.5in (750mm) above the top of the unit. A downward sloped condensate drain pipe can be used to dispose of water.

See the physical dimension tables for drain sizes.

REFRIGERANT LINES

General refrigerant line sizing:

1. The outdoor units are shipped with a full charge of R410A refrigerant.
2. Refrigerant lines should not be buried in the ground. If it is necessary to bury the lines, not more than 36−in (914 mm) should be buried. Provide a minimum 6−in (152 mm) vertical rise to the service valves to prevent refrigerant migration.
3. Both lines must be insulated. Use a minimum of 1/2−in. (12.7 mm) thick insulation. Closed−cell insulation is recommended in all long−line applications.
4. Special consideration should be given to isolating interconnecting tubing from the building structure. Isolate the tubing so that vibration or noise is not transmitted into the structure.

WIRING

All wires must be sized per NEC (National Electrical Code) or CEC (Canadian Electrical Code) and local codes. Use the Electrical Data table MCA (minimum circuit amps) and MOCP (maximum over current protection) to correctly size the wires and the disconnect the fuse or breakers respectively.

Per the caution note, only Stranded copper conductors with a 600 volt rating and double insulated copper wire must be used.

NOTE: The use of BX cable is not recommended.

Recommended Connection Method for Power and Communication

Wiring – Power and Communication Wiring:

The main power is supplied to the outdoor unit. The field supplied 14/3 power/communication wiring from the outdoor unit to the indoor unit consists of four (4) wires and provides the power for the indoor unit.

Two wires are high voltage AC power, one is the communication wiring and the other is a ground wire.

Recommended Connection Method for Power and Communication Wiring (To minimize communication wiring interference)

PowerWiring:

The main power is supplied to the outdoor unit. The field supplied power wiring from the outdoor unit to the indoor unit consists of three (3) wires and provides the power for the indoor unit. Two wires are high voltage AC power and one is a ground wire.

To minimize a voltage drop, the factory recommended wire size is 14/2 stranded with a ground.

Communication Wiring:

A separate shielded stranded copper conductor only, with a minimum 600 volt rating and double insulated copper wire, must be used as the communication wire from the outdoor unit to the indoor unit.

Please use a separate shielded 16GA stranded control wire.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

- Wires should be sized based on NEC and local codes.
- Use copper conductors only with a 600 volt rating and double insulated copper wire.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

- Comply with local codes while running wire from indoor unit to outdoor unit.
- Every wire must be connected firmly. Loose wiring may cause a terminal to overheat or result in unit malfunction. A fire hazard may also exist. Ensure all wiring is tightly connected.
- No wire should touch refrigerant tubing, the compressor or any moving parts.
- Disconnecting means must be provided and must be located within sight and readily accessible from the air conditioner.
- Connecting the cable with conduit shall be routed through a hole in the conduit panel.

CONTROL SYSTEM

The indoor unit is equipped with a microprocessor control to perform two functions:

1. Provide safety for the system
2. Control the system and provide optimum levels of comfort and efficiency.

The main microprocessor is located on the control board of the fan coil unit (outdoor units have a microprocessor too) with thermistors located in the fan coil air inlet and on the indoor coil. Heat pump units have a thermistor on the outdoor coil. These thermistors monitor the system operation to maintain the unit within acceptable parameters and control the operating mode.

WIRELESS REMOTE CONTROL

Fig. 3 – Wireless Remote Control

1. A wireless remote control is supplied for system operation of all in−ceiling cassette units.
2. Each battery operated wireless (infrared) remote control may be used to control more than one unit.

WIRED REMOTE CONTROL (OPTIONAL)

1. Optional wired remote controller used for system operation of all in−ceiling cassette units.
2. Kit includes a wired remote controller and a connecting cable.
3. Connect the wire terminal between the remote controller and the indoor unit.
4. Display in °F or °C and temperature increments every 1°F or every 1°C.

Fig. 4 – KSACN0101AAA (Timer Function)

Fig. 5 – KSACN0501AAA (7 Day Programmable)

AIR FLOW DATA

SYSTEM SIZE		9	12	18
INDOOR (CFM)	HIGH	380	400	420
	MEDIUM	320	340	350
	LOW	260	280	290

AIR THROW DATA

UNIT CAPACITY	MAX. APROXIMATE AIR THROW ft. (m)	APROXIMATE AIR THROW RANGE ft. (m)
9	23 (7)	11 (3.5) ~ 23 (7)
12	23 (7)	11 (3.5) ~ 23 (7)
18	30 (9)	13 (4) ~ 30 (9)

SOUND PRESSURE

SYSTEM SIZE		9	12	18
Cooling Operation Indoor Sound Pressure	dBa (L/M/H)	34/39/44	36/39/42	46/48/50
Heating Operation Indoor Sound Pressure	dBa (L/M/H)	31/37/42	37/39/42	46/47/49

SOUND PRESSURE TESTING METHOD

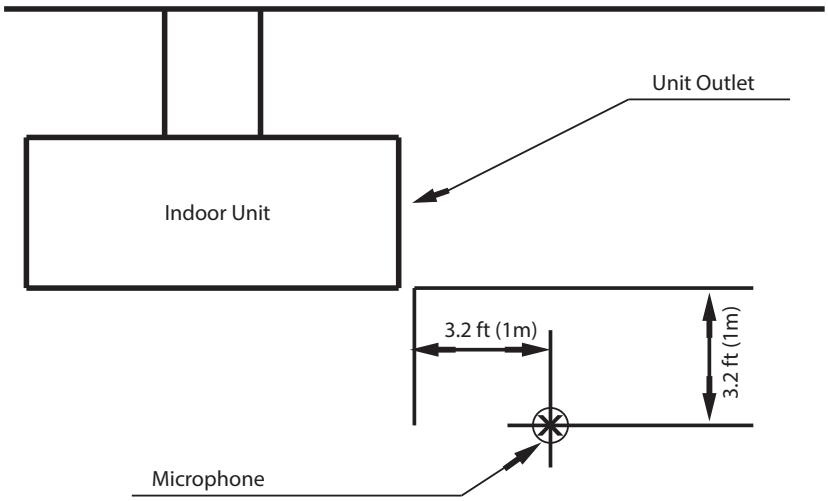

Fig. 6 – Sound Pressure Testing Method

SOUND POWER

SYSTEM SIZE		9	12	18
Cooling Operation Indoor Sound Power	dBa (L/M/H)	43/48/53	45/48/51	56/58/60
Heating Operation Indoor Sound Power	dBa (L/M/H)	40/48/51	46/48/51	56/57/59

ELECTRICAL DATA

UNIT SIZE	OPER. VOLTAGE MAX / MIN*	INDOOR FAN				MAX FUSE CB AMP
		V–PH–HZ	FLA	HP	W	
9	253 / 187	208–230/1/60	0.146	0.061	46	Refer to outdoor unit installation instructions – Indoor unit powered by the outdoor unit
12			0.146	0.061	46	
18			0.146	0.061	46	

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

LEGEND

FLA – Full Load Amps

FAN AND MOTOR SPECIFICATIONS

SYSTEM SIZE			9	12	18
Indoor Fan	material		ABS	ABS	ABS
	Type		LX–322*147.5*12–7N	LX–322*147.5*12–7N	LX–322*147.5*12–7N
	Diameter	inch	12.7	12.7	12.7
	Height	inch	5.8	5.8	5.8
Indoor Fan Motor	Model		WZDK46–38G	WZDK46–38G	WZDK46–38G
	Type		DC	DC	DC
	Phase		3	3	3
	FLA		0.146	0.146	0.146
	Insulation class		E	E	E
	Safe class		IPX0	IPX0	IPX0
	Input	W	45	45	45
	Output	W	46	46	46
	Range of current	Amps	0.146±10%	0.146±10%	0.146±10%
	Rated current	Amps	0.146	0.146	0.146
	Rated HP	HP	0.061	0.061	0.061
	Speed	rev/min	600/520/460	650/560/500	860/800/680/580
	Rated RPM	rev/min	960	960	960
	Max. input	W	45	45	45

WIRING DIAGRAMS

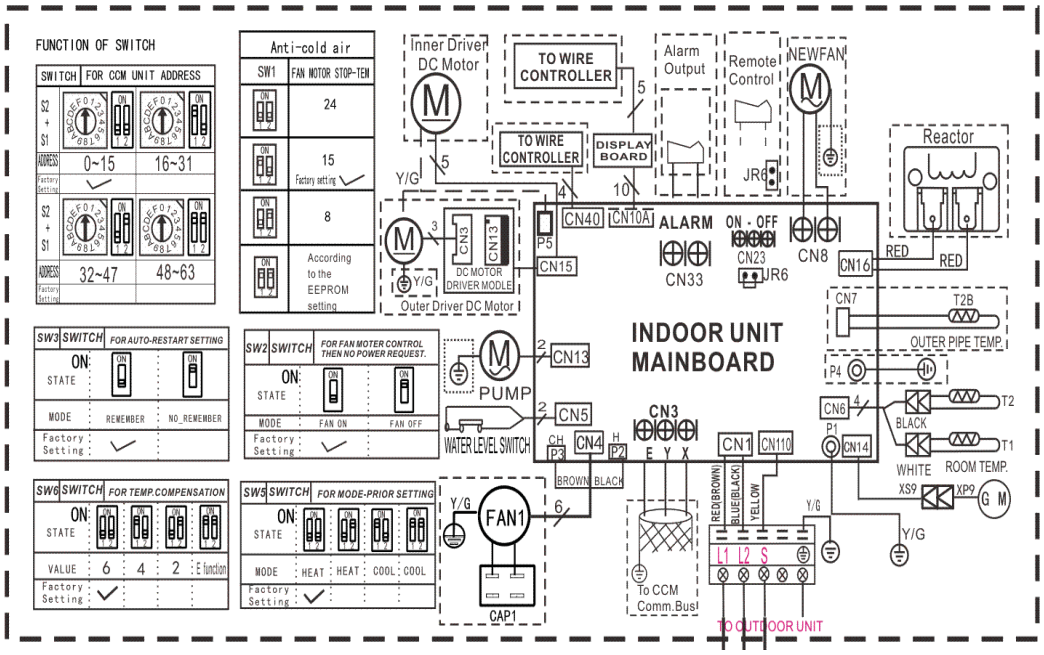

Fig. 7 – Wiring Diagram Sizes 09 – 12

INDOOR UNIT	
CODE	**PART NAME**
CN1	Input: 230VAC High voltage Connection of the terminal
CN3	Output: 0–5VDC Connection of the CCM
P1	Output: 0V Connection of the earth
CN5	Output: 1–5VDC Connection of the Water level switch
CN6	Output: 5VDC Connection of the Room and Pipe temperature
CN10A	Output: 12VDC Connection of the Display board
CN13	Output: 220VAC High voltage Connection of the Pump
CN14	Output: 12VDC Connection of the Swing motor
CN15	Output: 320VDC High voltage Connection of the DC Fan
CN16	Output: 320VDC High voltage Connection of the Reactor
CN23	Output: 1–12VDC Connection of the Remote switch
CN33	Output: 0V Connection of the Alarm
CN40	Output: 12VDC Connection of the Wire controller
CN110	Output: 24VDC between Pin2 of CN1 connection of the S signal

WIRING DIAGRAMS (CONT)

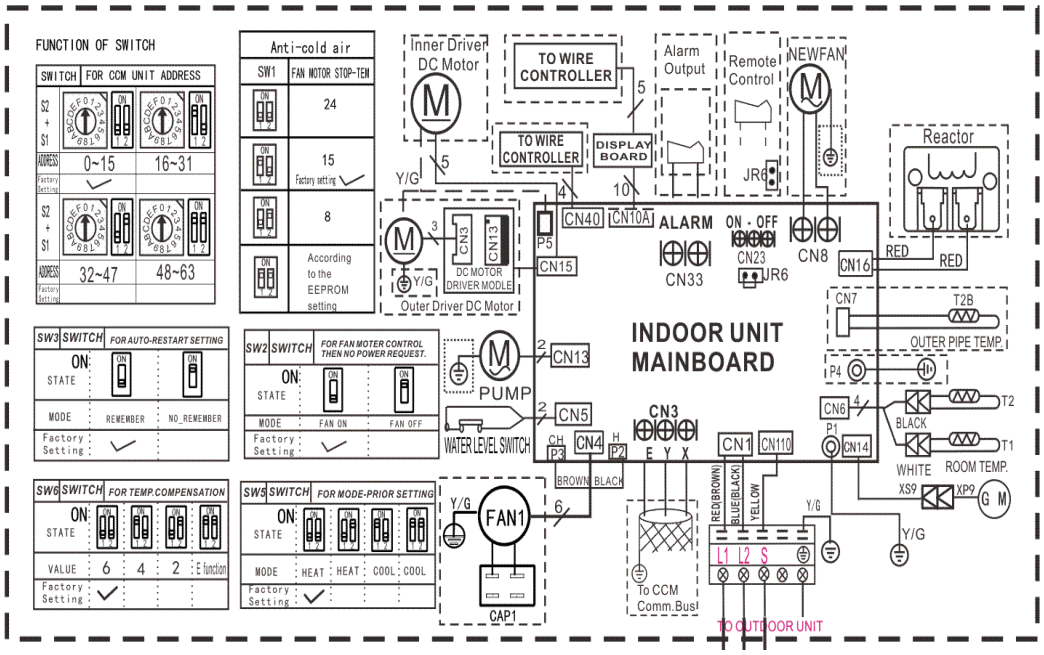

Fig. 8 – Wiring Diagram Size 18

INDOOR UNIT	
CODE	**PART NAME**
CN1	Input: 230VAC High voltage Connection of the terminal
CN3	Output: 0–5VDC Connection of the CCM
P1	Output: 0V Connection of the earth
CN5	Output: 1–5VDC Connection of the Water level switch
CN6	Output: 5VDC Connection of the Room and Pipe temperature
CN10A	Output: 12VDC Connection of the Display board
CN13	Output: 220VAC High voltage Connection of the Pump
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CN33	Output: 0V Connection of the Alarm
CN40	Output: 12VDC Connection of the Wire controller
CN110	Output: 24VDC Between Pin2 of CN1 Connection of the S signal

PART 1 − GENERAL

1.01 System Description

Indoor, in−ceiling cassette, direct−expansion fan coils are matched with a heat pump outdoor unit.

1.02 Agency Listings

Unit are rated per AHRI Standards 210/240 and listed in the AHRI directory as a matched system.

1.03 Delivery, Storage, And Handling

Units are stored and handled per the unit manufacturer's recommendations.

1.04 Warranty (For Inclusion By Specifying Engineer)

PART 2 − PRODUCTS

2.01 Equipment

A. General:

Indoor, direct−expansion, ceiling−mounted fan coil. Unit is complete with a cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and an integral temperature sensing.

B. Unit Cabinet: Cabinet is constructed of zinc−coated steel. Fully insulated discharge and inlet grilles are attractively styled, high−impact polystyrene. Grille has hinges and can be opened to obtain access to the cleanable filters, indoor fan motor and control box.

C. FANS:

1. The fan is a centrifugal direct−drive blower type with an air intake in the center of the unit and a discharge at the perimeter. An automatic, motor−driven vertical air sweep is provided standard. Automatic motor−driven louvers are provided standard and are adjustable for a 2, 3 or 4−way discharge.
2. The air sweep operation is user selectable.

D. Coil:

The coil is a copper tube with aluminum fins and galvanized steel tube sheets. Fins are bonded to the tubes by mechanical expansion and specially blue hydrophilic pre−coated for enhanced wet−ability. A drip pan under the coil has a factory installed condensate lift pump and a drain connection for a hose attachment to remove condensate.

E. Motors:

Motors are open drip−proof, permanently lubricated ball bearing with inherent overload protection. Fan motors are 7−speed.

F. Controls:

Controls consist of a microprocessor−based control system which controls the space temperature, determines the optimum fan speed, and runs self diagnostics. The temperature control range is 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and has a 46°F Heating Mode (Heating Setback). The wireless remote controller, has the ability to act as the temperature sensing location for room comfort.

The unit shall have the following functions as a minimum:

1. An automatic restart after a power failure at the same operating conditions as at failure.
2. A timer function to provide a minimum 24−hour timer cycle for the system's Auto Start/Stop.
3. Temperature−sensing controls sense the return air temperature.
4. Indoor coil freeze protection.
5. Wireless infrared remote control to enter set points and operating conditions.
6. Automatic air sweep control to provide on or off activation of air sweep louvers.
7. Dehumidification mode which provides increased latent removal capability by modulating system operation and set point temperature.
8. A fan−only operation to provide room air circulation when no cooling is required.
9. Diagnostics to provide continuous checks of the unit operation and warn of possible malfunctions. Any error messages are displayed at the unit.
10. The fan speed control is user−selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes.
11. Automatic heating−to−cooling changeover in the heat pump mode. Control includes deadband to prevent rapid mode cycling between heating and cooling.
12. Indoor coil high temperature protection is provided to detect excessive indoor discharge temperature when unit is in the heat pump mode.

G. Filters:

The unit has a filter track with factory−supplied cleanable filters.

H. Electrical Requirements:

The indoor fan motor operates on 208−230V on model sizes 09−18, as specified. Power is supplied from the outdoor unit.

I. Operating Characteristics:

The 40MB*C system has a minimum SEER (Seasonal Energy Efficiency Ratio) and HSPF at AHRI conditions, as listed on the specifications table.

J. Refrigerant Lines:

All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines must be insulated.

Edition Date: 05/16
Catalog No: 40MBC−04PD
Replaces:38−40MBC−03PD