



Reception

On arrival, inspect the unit before signing the delivery note Specify any damage of the unit on the delivery note, and send a registered letter of protest to the last carrier of the goods within 72 hours of delivery. Notify the dealer at the same time.

The unit should be totally inspected within 7 days of delivery. If any concealed damage is discovered, send a registered letter of protest to the carrier within 7 days of delivery and notify the dealer

About this Manual

Cautions appear at appropriate places in this Installation Manual. Your personal safety and the proper operation of this machine require that you follow them carefully.

The Trane Company assumes no liability for installations or servicing performed by unqualified personnel. All phases of the installation of this air conditioning system must conform to all national, provincial, state and local codes

Cooling Only Cooling Only **Cooling Heating Cooling Heating** 50 Hz Models 60 Hz Models MCD 512 DB MCD 518 DB MCD 512 D1 MCD 518 D1 MCD 524 DB MCD 530 DB MCD 524 D1 MCD 530 D1 MCD 536 DB MCD 536 D1 MCD 048 DB MCD 048 D1 MCD 060 DB MCD 060 D1 Cooling Cooling Heating Cooling Heating 50Hz Models

60 Hz Models MCDA 18 DB MCDA 18 D1 MCDA 24 DB MCDA 24 D1 MCDA 30 DB MCDA 30 D1 MCDA 36 DB MCDB 42 DB MCDA 36 D1 MCDB 42 D1 MCDB 48 DB MCDB 48 D1 MCDB 60 DB MCDB 60 D1

Warranty

Cooling

Warranty is based on the general terms and conditions by country. The warranty is void if the equipment is modified or repaired without the written approval of The Trane Company, if the operating limits are exceeded or if the control system or the electrical wiring is modified. Damage due to inappropriate installation, lack of knowledge or failure to comply with the manufacturer's instructions, is not covered by the warranty obligation. If the installation does not conform to the rules described in Installation Manual, it may entail cancellation of warranty and liabilities by The Trane Company.

Warning

Warnings are provided at appropriate places in this manual to indicate to installers, operators and service personnel of potentially hazardous situations which, if not avoided, COULD result in death or serious injury. Children should be supervised to ensure that they do not

play with the appliance. The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they been given supervision or instruction

Moto

Blowe

B

Outlet Collar

Evaporator Coil

Electric Heater

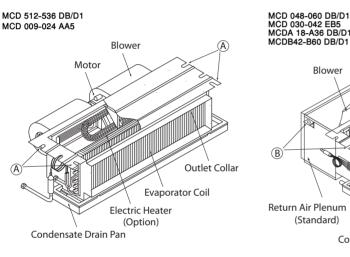
(Option)

Indoor unit

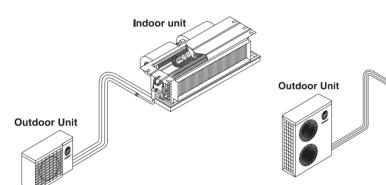
Condensate Drain Pan

Note (B) Hanger recommendation for return plenum mode

System Appearance



Note A Hanger recommendation for without return plenum model



Units Installation

RETURN PLENUM FILTER

Model Series 5	j
Cooling Only	
(50 Hz)	
MCD 009 AA5	
MCD 012 AA5	
MCD 018 AA5	
MCD 024 AA5	
MCD 030 EB5	
MCD 036 EB5	
MCD 042 EB5	

General Information

Introduction

This Installation Manual is given as a guide to good practice in the installation by the installer of MCD mini-split system. Installation procedures should be performed in the sequence that they appear in this manual.

MCD Series 50/60 Hz

Installation Manual

Split System Concealed Type

For installing the unit to operate properly and reliably, it must be installed in accordance with these instructions. Also, the services of a qualified service technician should be employed, through the maintenance contract with a reputable service company

Read these installation instructions completely before installing the air conditioning system.

ILLUSION

About the Unit

These MCD units are assembled, pressure tested, dehydrated, charged and run tested before shipment. The information contained in this manual applies to MCD units are designed to operate in cooling mode only and in cooling or heating modes

Important

This document is customer property and is to remain with unit. Please place in service information pack upon completion of work. These instructions do not cover all variations in systems, nor do they provide for every possible contingency to be met in connection with installation.

Should further information be desired or should particular problems arise which are not covered sufficiently in this manual. the matter should be referred to your authorized Trane dealer.

Caution

Cautions are provided at appropriate places in this manual to indicate to installers, operators, and service personnel of potentially hazardous situations which, if not avoided, MAY result in minor or moderate injury or malfunction of the unit.

Location and Preparation of Units

Indoor Unit

Select a convenient location that allows the air to reach every corner of the room and where it is easy to route the

- refrigerant tubing, wiring and drain to the outside. 2. The ceiling construction should be strong enough to support the weight of the unit.
- The refrigerant tubing, drain piping and wiring conduit are connected through the wall.
- 4. Refrigerant tubes between the indoor and the outdoor units and drain pipes should be as short as possible.
- 5. If a refrigerant charge adjustment is necessary, follow the Installation Manual for the Outdoor Unit.

Outdoor Unit

See instructions for location and preparation of the unit in the Installation Manual for the Outdoor Unit.

Installation Method:

Indoor Unit

- After selecting the location to place the unit, follow these steps: 1. Make a hole in the wall to route tubing and wiring through a locally
- purchased PVC pipe. The hole should slope downwards slightly, towards the outside
- (Figure 1).
- Before cutting, check that no pipes or studs are directly behind the place to be cut. Avoid areas where electrical wiring or conduits are located.
- Hang the unit on a solid and level roof. Noise, vibration or leakage could occur on and unstable foundation (Figure 3, 4). For correct installation of 3.
- duct work see (Figure 6).
- duct work see (rigure 6).
 4. Support the unit solidly.
 5. To have access to electrical terminals, remove the right side junction box (Figure 2).
 6. Note that refrigerant tubing, interconnecting wiring and drain hose should go through the wall. Shape these items so that they will easily fit through the wall.
- Outdoor Unit

See the proper installation method provided in the Installation Manual for the Outdoor Unit.

Connection of Refrigerant Tubing

Proper installation procedure is recommended in the Installation Manual Package, usually provided together with the outdoor unit. It is advisable to read before installing

The indoor unit refrigerant connections are located on the left hand side when facing the unit (Figure 7).

Connecting the Units with Flaring Procedure

- 1. Cut the copper tube to the required length with a tube cutter.
- It is recommended to cut approx. 20-30 cm. longer than the tubing length. 2. Remove burrs at the end of the copper tube with a tube reamer or file, as shown in
- Figure 8. When reaming, hold the tube end downward and be sure that no copper scraps fall into the

tube (Figure 9).

Deburrinc Flare Nut Copper Tubing Copper Reame Flare Tool Before After Figure 9

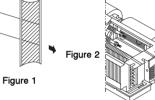
Figure 8

3. Remove the flare nut from the unit and be sure to insert on the copper tube. 4. Make a flare at the end of the copper tube with a flare tool (Figure 10)

Flare Specification								
Copper diameter, In.(mm.)	H, (mm.)	D, (mm.)						
1/4" (6.35)	1.0 - 2.0	8.6 - 9.7						

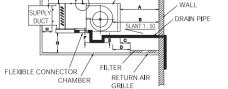


Figure 7



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WITH FILTER

CELING

DETAIL

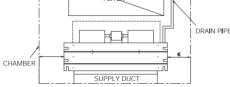


Figure 3 (SIDE VIEW)

Figure 4 (TOP VIEW)

Table 1

	A	в	С	D	E	F	G	н	I	J	к
DISTANCE (MM.)	Min. 750	Min. 800	100	150	50	200	Min. 200	Min. 100	Min. 50	Min. 300	Min. 300

NOTE: FOR DUCT LENGTH PLEASE SEE TABLE 2, 3, 4

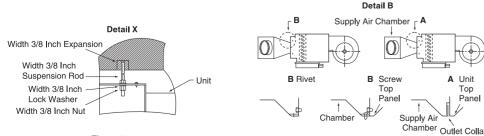


Figure 5



3/8" (9.53)	1.0 - 3.0	12.4 - 13.9
1/2" (12.70)	1.0 - 2.0	15.7 - 16.1
5/8" (15.88)	1.0 - 3.0	19.0 - 20.3
3/4" (19.05)	1.0 - 3.0	22.4 - 22.7

A good flare should have the following characteristics:

Inside surface is glossy and smooth.

Edge is smooth.

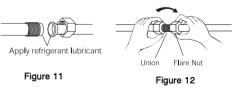
- Tapered sides are of uniform length.
- Cautions Before Connecting Tightly
- 1. Be sure to apply a sealing cap or water-proof tape to prevent dust or water from getting into the tubes before they are used
- 2. Be sure to apply refrigerant lubricant to the matching surfaces of the flare and union before connecting them together. This is effective for reducing gas leaks (Figure 11).
- 3. For proper connection, align the union tube and flare tube straight with each other, then screw in the flare nut lightly at first to obtain a smooth match (Figure 12).
- 4. Tighten the flare nuts, using the appropriate wrench.

Connecting the Unit with Brazing Prodecure

- 1. Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 20-30 cm. longer than the tube lenath.
- 2. Remove burrs at the end of the copper tube with a tube reamer (Figure 8).
- 3. There are 2 ways to connect the copper tube
- Use a coupling between the copper tube of Fan Coil Unit and the copper tube used for installation (Figure 13).
- Expand the copper tube by using a swaging tool set as in Figure 14.
- To braze the copper tube, before brazing a copper tube to a solder coupling or a copper tube to an expanded tube, do not forget to keep them tight as shown in Figure 15.
- 5. While welding copper tube. You should to Nitrogen flow in tube for protect soot occured.

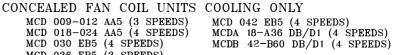


Figure 17





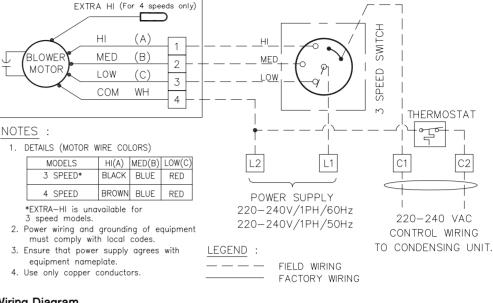


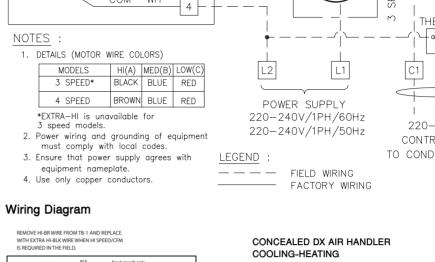


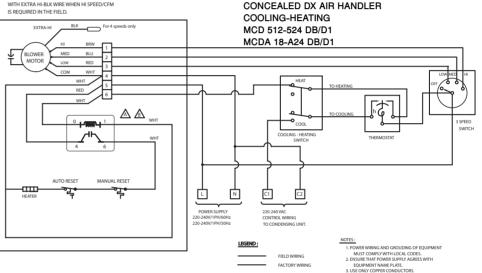
MCD 036 EB5 (3 SPEEDS) MCD 512-536 DB/D1 (4 SPEEDS)

MCD 048-060 DB/D1 (4 SPEEDS)

Remove HI-BR wire from TB-1 and replace with EXTRA HI-BLK wire when high speed/cfm is required in the field.

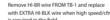


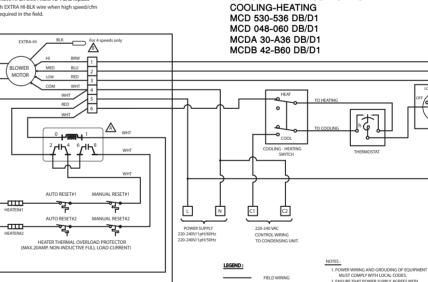




CONCEALED FAN COIL UNITS

Wiring Diagram e HI-BR wire FROM TB-1 and replac





Maintenance

Condensate Drain Piping

1. The drain hose should run straight down the wall to a level where the run off will not stain the wall.

Swaging Tool

Copper Tube

Figure 14

2. These should be no water traps. Avoid putting the end of the hose in water

Copper Tube of Fan Coil

Unit

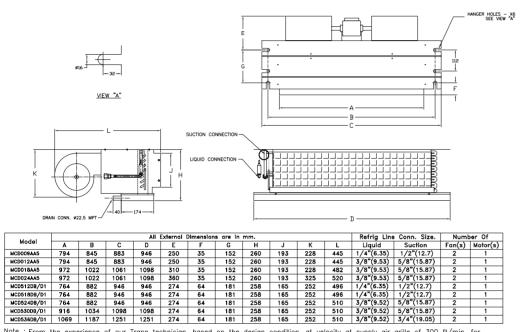
Copper Tube of Condensing Unit

Figure 13

Solder Coupling

- 3. To conveniently drain the system, the drain piping must slant downward, with a slope of at least 1:50 to prevent leakage.
- 4. When the drain hose is placed in the room, insulate the hose with foam polyethylene to avoid damage to the ceiling or furniture.
- 5. After completing installation of refrigerant lines, wiring and drain connections, bind the tubing, wiring and drain piping (check if local codes permit binding) into a bundle by using tape at 100 or 200 mm (4" to 8") intervals. Make sure the drain tube is at the bottom of the bundle (Figure 16).

Dimensional Data



Solder Rod

Tube Holder

(Clamp)

Torch

Copper Tube from

Condensing Unit

Figure 15

Power Wiring with

Figure 16

Ground Wiring

P.V.C. Tape

Insulation Tube

Liquid Line Tube

Suction Line Tube

Water Condensated

Drain Tube (P.V.C. Tube)

PVC

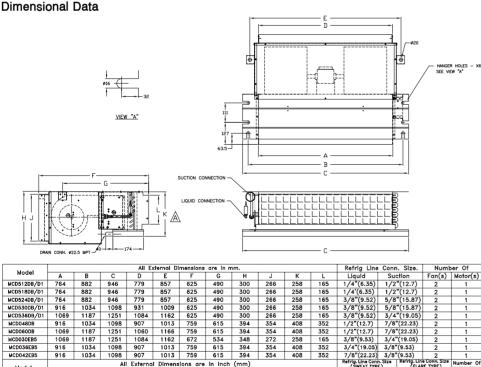
Control Wiring

Coil Unit

Solder Coupling

<u>Note</u> : From the experience of our Trane technician, based on the design condition, at velocity at supply air grille of 300 ft/min. for bedroom and 400 ft./min. for office (based on free face area), The length of the air duct should be less than 60 cm. for Mode MCD009AA5-024AA5 and the length of duct should be more than 3 m. for Model MCD512D-536D.





Model			All	Externa	I Dimens	sions are	in inch	(mm)				(SWEAT	TYPE)	(FLAR	E TYPF)	Numb	
model	A	B	С	D	E	F	G	н	J	K	L	Suction	Liquid	Suction	Liquid	Fan (s)	Motor(s)
MCDA18D1	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	5/8"(15.87)	3/8"(9.53)	2	1
MCDA24D1	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	5/8"(15.87)	3/8"(9.53)	2	1
MCDA30D1	1069	1187	1251	1005	1166	724	577	394	354	258	165	-	-	3/4"(19.05)			1
MCDA36D1	916	1034	1098	851	1013	759	615	394	354	408	352	-		3/4"(19.05)	3/8"(9.53)	2	1
MCDB42D1	916	1034	1098	851	1013	759	615	394	354	408	352	7/8"(22.23)	3/8"(9.53)	-	-	2	1
MCDB48D1	1069	1187	1251	1005	1166	759	615	394	354	408	352	7/8"(22.23)		-	-	2	1
MCDB60D1	1069	1187	1251	1005	1166	400	440	615	759	408	352	7/8"(22.23)	3/8"(9.53)	-	-	2	1
MCDA18DB	972	1022	1060	919	1077	538	440	304	221	258	193	-	-	3/4"(19.05)	3/8"(9.53)	2	1
MCDA24DB	916	1034	1098	919	1077	538	440	304	221	258	193	-	-	3/4"(19.05)	3/8"(9.53)	2	1
MCDA30DB	1069	1187	1251	1005	1166	354	394	577	354	258	165	-	-	3/4"(19.05)			1
MCDA36DB	916	1034	1098	851	1013	354	394	615	354	408	352	-	-	7/8"(22.23)	3/8"(9.53)	2	1
MCDB42DB	916	1034	1098	851	1013	354	394	615	354	408	352	7/8"(22.23)			-	2	1
MCDB48DB	1069	1187	1251	1005	1166	354	394	615	354	408	352	7/8"(22.23)	3/8"(9.53)	-	-	2	1
MCDB60DB	1069	1187	1251	1005	1166	354	394	615	354	408	352	7/8"(22.23)	3/8"(9.53)	-	-	2	1

Note : From the experience of our Trane technician, based on the design condition, at velocity at supply air grille of 300 ft/min. for bedroorm and 400 ft/min. for office (based on free face area). The right of the air duct should be less than 60 cm. for Model MCD030EB5-042EB5 and the length of duct should be more than 3 m. for Model MCD5120-0600.

Electrical Installation

Electrical Installation

All wiring and grounding must comply with local electrical codes.

Wiring Important Safeguards:

- Check the unit nameplate for electrical rating. Be sure wiring is done according to local codes and wiring diagram.
 Use a separate power line with circuit breaker for each air conditioning unit.
- Connect electrical ground to all units.
- Wiring should not touch refrigerant tubing, compressor, motors or moving parts.
- The manufacturer will accept no responsibility for problems caused by unauthorized changes in the internal wiring.
- Connect the wiring firmly.

Indoor Unit

Remove the right side junction box (see previous instructions) to access the terminal base.

- System Wiring Routing Pass the system wiring through the PVC pipe, referred to in the Section of Installation Method
- (both power and control lines) to interconnect indoor and outdoor units. Connect the wire terminals to the terminal base. See connection indication on system wiring diagram.

Make sure all connections are tight.

Outdoor Unit

See the electrical installation instructions in the Installation Manual for the Outdoor Unit. Caution

In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

Be sure to disconnect the power before inspection or maintenance air conditioner.

Regular Maintenance 1. Cleaning the air filter

Air flow is reduced and cooling efficiency impaired if the filter is clogged. Be sure to clean the filter every two weeks during the cooling season. 1.1 Remove air filters to side

- - Slide air filter to left or right side.
- Side an inter to left of right side.
 1.2 Remove air filters to bottom

 Loose screws located under the filters at return air plenum set.
 Remove air filter frame and pull air filter down.

- Here are an early and part and part and the down.
 How to clean the air filter
 Wash away dust from the air filters with clean water or vacuum it with an electric vacuum cleaner
- Note: Once the air filter is washed, dry it completely before returning it to its original position

After cleaning be sure to return it to its original position.

- Do not wash the air filter in water that is over 40°C or it may shrink. Do not expose the air filter to fire. Do not expose the air filter to direct sunlight for a long time when the - Clean the air filter more frequently. - Do not inject water into motor





บริษัท แอมแอร์ จำกัด

999/1 หมู่ที่ 9 ถนนบางนา-ตราด กม.19 ดำบลบางโฉลง อำเภอบางพลี จังหวัดสมุทรปราการ 10540

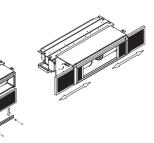
Trane

www.trane.com

For more information, contact your locat district office

Literature Order Number: MS-SVN004-EN Date: February 2011 Supersedes November 2014 Stocking Location: Bangkok, Thailand

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice



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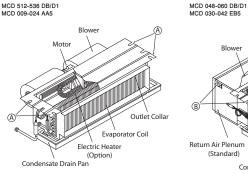
About this Manual

Note (A) Hanger

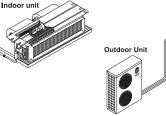
Outdoor Unit

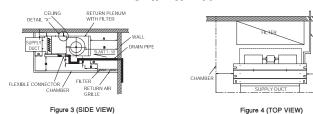
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System Appearance

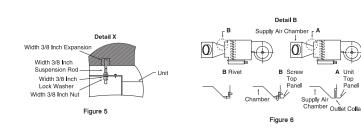


mendation for without return plenum model





A B C D E F G H I J K
 DISTANCE
 Min. 750
 Min. 800
 100
 150
 NOTE: FOR DUCT LENGTH PLEASE SEE TABLE 2, 3, 4
 150 50 200 Min. 200 Min. 100 Min. 50 Min. 300 Min. 300



Warrantv

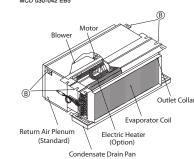
50 Hz Model

MCDA24 DE MCDA30 DE MCDA36 DE MCDB42 DE MCDB48 DE MCDB60 DE

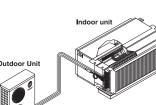
Warranty is based on the general terms and conditions by country. The warranty is void if the equipment is modified or repaired without the written approval of The Trane Company, if the operating limits are exceeded or if the control system or the electrical wiring is modified. Damage due to inappropriate installation, lack of knowledge Damage due to inappropriate installation, lack of knowledge or failure to comply with the manufacture's instructions, is not covered by the warranty obligation. If the installation does not conform to the rules described in Installation Manual, it may entail cancellation of warranty and liabilities by The Trane Company.

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Note (B) Hanger



Units Installation



Installation Manual

General Information

Introduction

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Location and Preparation of Units

Indoor Unit 1. Select a convenient location that allows the air to reach every corner of the room and where it is easy to route the

- Below to one to be the second s

Outdoor Unit See instructions for location and preparation of the unit in the Installation Manual for the Outdoor Unit.

Installation Method: Indoor Unit

- Indoor Unit After selecting the location to place the unit, follow these steps: 1. Make a hole in the wall to route tubing and wiring through a locally interest DVC pipe wrane a noie in the wall to route tubing and wiring through a local purchased PVC pipe. The hole should slope downwards slightly, towards the outside (Figure 1).
- re cutting, check that no pipes or studs are directly behind the place
- Avoid areas where electrical wiring or conduits are located. 3. Hang the unit on a solid and level roof. Noise, vibration or leakage could occur on and unstable foundation (Figure 3, 4). For correct installation of duct work sae (Figure 3)
- docul for and unside oundation (Figure 5, 4). In concentrations of Support the unit solidly. To have access to electrical terminals, remove the right side junction box (Figure 2). Note that refrigerant tubing, interconnecting wiring and drain hose should go through the wall. Support these items so that they will easily ift through the wall.
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- The indoor unit refrigerant connections are located on the left hand side when facing the unit (Figure 7). Connecting the Units with Flaring Procedure 1. Out the copper tube to the required length with a tube cutter. It is recommended to cut approx. 20-30 cm. longer than the tubing length. 2. Remove burrs at the end of the copper tube with a tube reamer or file, as shown in Figure 8. When reaming hold the tube end downward and he sure that no conner scrans fall into the

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube (Figure 9).





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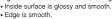
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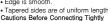
Figure 1

Remove the flare nut from the unit and be sure to insert on the copper tube.
 Make a flare at the end of the copper tube with a flare tool (Figure 10).

late opecification			
Copper diameter, In.(mm.)	H, (mm.)	D, (mm.)	
1/4" (6.35)	1.0 - 2.0	8.6 - 9.7	
3/8" (9.53)	1.0 - 3.0	12.4 - 13.9	
1/2" (12.70)	1.0 - 2.0	15.7 - 16.1	
5/8" (15.88)	1.0 - 3.0	19.0 - 20.3	
3/4" (19.05)	1.0 - 3.0	22.4 - 22.7	Figure 17
			Figure 17

A good flare should have the following characteristics:



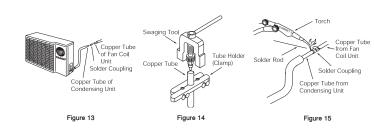








- Cautions Before Connecting Tightly 1. Be sure to apply a sealing cap or water-proof tape to prevent dust or water from getting into the tubes before they are used. 2. Be sure to apply refrigerant lubricant to the matching surfaces of the flare and union before connecting them together. This is effective for reducing gas leaks (Figure 11). 3. For proper connection, align the union tube and flare tube straight with each other, then screw in the flare nut lightly at first to obtain a smooth match (Figure 12).
- A. Tighten the flare nuts, using the appropriate wrench. Connecting the Unit with Brazing Prodecure 1. Out the copper tube to the required length with a tube cutter. It is recommended to cut approx. 20-30 cm. longer than the tube
- length. Remove burrs at the end of the copper tube with a tube reamer (Figure 8).
- 3. There are 2 ways to connect the copper tube Use a coupling between the copper tube of Fan Coil Unit and the copper tube used for installation (Figure 13).
- Sea a cooping between the copies tube of an control and the copies tube due to installation (righter to).
 Expand the copper tube by using a swaging tool set as in Figure 14.
 To braze the copper tube, before brazing a copper tube to a solder coupling or a copper tube to an expanded tube, do
 not forget to keep them tight as shown in Figure 15.
 5. While welding copper tube. You should to Nitrogen flow in tube for protect soot occured.



P.V.C. Tape ~

Suction Line Tube

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Figure 16

Control Wirin ✓ ✓ ✓ Wiring with

Insulation Tube -

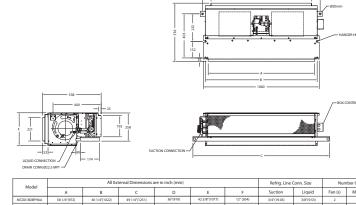
Suction Line Tube

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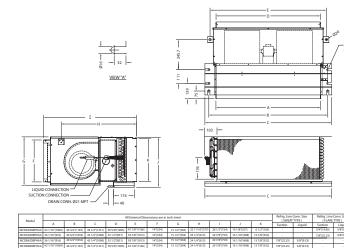
MS-SVN004-EN

- Condensate Drain Piping
 1. The drain hose should run straight down the wall to a level where the run off will not stain the wall. 2. These should be no water traps. Avoid putting the end of the hose in
- Water Condens Drain Tube (P.V.C. Tube)
- To conveniently drain the system, the drain piping must slant downward, with a slope of at least 1:50 to prevent leakage.
 When the drain hose is placed in the room, insulate the hose with foam polyethylene to avoid damage to the ceiling or furniture.
 After completing installation of refrigerant lines, wiring and drain connections, bind the tubing, wiring and drain piping (check if local codes permit binding) into a bundle by using tape at 100 or 200 mm (4" to 8") intervals. Make sure the drain tube is at the bottom of the bundle (Figure 16).

Dimensional Data



Dimensional Data



Electrical Installation

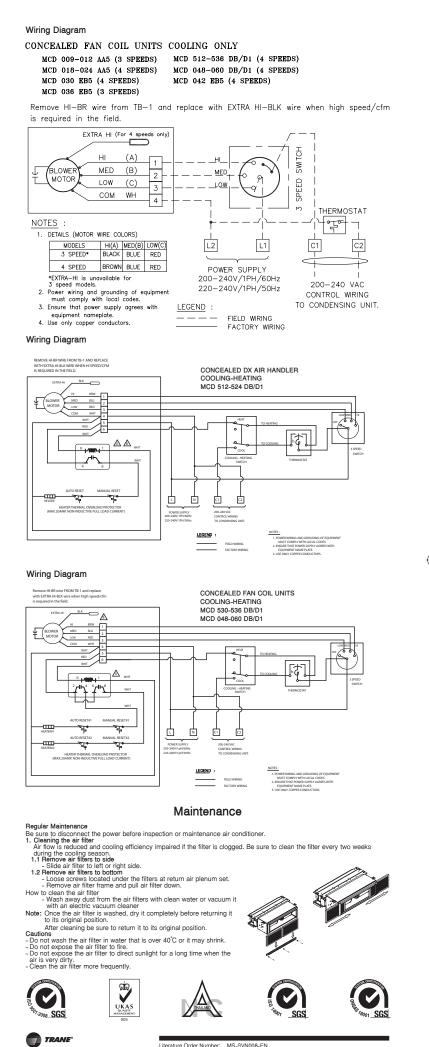
Electrical Installation

- Electrical Installation All wining and grounding must comply with local electrical codes. Wining Important Safeguards: Check the unit nameplate for electrical rating. Be sure wiring is done according to local codes and wiring diagram. Use a separate power line with circuit breaker for each air conditioning unit. Connect electrical ground to all units. Wiring should not toxic herdingerant tubing, compressor, motors or moving parts. The manufacturer will accept no responsibility for problems caused by unauthorized changes in the internal wiring. Connect the wiring firmly. Indoor Unit

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- Connect the wiring firmly.
 Indoor Unit
 System Wiring Routing
 Pass the system Wiring through the PVC pipe, referred to in the Section of Installation Method
 (both power and control lines) to interconnect indoor and outdoor units.
 Connect the wire terminals to the terminal base. See connection indication on system wiring diagram.
 Make sure all connections are tight.
 Outdoor Unit
 Outdo

See the electrical installation instructions in the Installation Manual for the Outdoor Unit.



มแคร์ จำกัด

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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.