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Literature Part No.: LIT-WMMS-INSTALLATION-R410A-1TO1A-20090413

For WMMS Series A Products-R410A, Single Zone

Subject to Continuous Engineering Improvement without Prior Notice. Actual Unit/part May Look Different from the Shown in Manual.

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HiSEER®, A COMFORT MAKER, A JOY COMPANION, A SATISFACTION GUARANTOR...

AIR CONDITIONER AND HEAT PUMP WALL MOUNT MINI SPLIT TYPE INSTALLATION MANUAL SINGLE ZONE REFRIGERANT: R410A



⚠ WARNING

This product is designed and manufactured free from defects in material and workmanship under the normal use and maintenance. Installation, operation, maintenance and service shall follow professional practices for regular cooling and heating equipment, NEC, State, City or Local Codes and related manuals from us. Otherwise, damage to equipment or property even injury to people may occur.

Installer: Read this manual before installation. Remember to sign on warranty card.

User: Keep this manual for future maintenance and service use.

Service: Use this manual for service reference.



LITERATURE: LIT-WMMS-INSTALLATION-R410A-1TO1A-20090413

IMPERATIVE

⚠ CAUTION

- All Units Shall Be Installed by Experienced or Licensed Contractor or Technician. Customers must NOT Install This Unit by Themselves or Hire Non-Licensed Persons to Do the Job. We Decline Any Consequences, Including Damage to Unit, People, Properties and Others Resulted from Such not suggested Behaviour.
- Following NEC, State and Local Codes and Installation Instructions of All Units, Otherwise Unit Warranty Will Be Void and Serious Damage To People Or Property May Be Caused.
- Read Manuals Thoroughly before Installation.
- Always Keep Your External Unit In A Vertical Position During Handling.

⚠ WARNING

- Manufacturer Shall NOT Take Any Responsibilities for Any Damage or Loss Due to Improper Installation or Operation or Natural Disaster.
- Don't Supply Power until All Wiring and Tubing and Checking is Completed.
- Ground the Unit Following Instructions and NEC, State and Local Codes.

⚠ DANGER

- Connect All Wiring Securely. Loose Wire or Other Bad Contact May Cause Arc or Overheating and Fire Hazard.

LIABILITIES

- We are not responsible for problems due to bad installation or abnormal usage of this unit:
- A bad connection of the connecting pipes.
- Folding or deterioration of connecting pipes during installation.
- Shocks during the installation due to unprofessional or incautious installation or usage.
- An installation or usage not conforming to the regulations or factory recommendations.
- Possible costs, services or disasters caused by such bad installation or abnormal usage.
- A not very effective operation of the air-conditioner due to a bad vacuum.
- A distance between indoor and outdoor units that exceeds the recommended ranges.
- The presence of foreign substances left in the air-conditioner during installation.
- The under performance due to such bad installation or abnormal usage.
- Water leakage problems due to such bad installation of drain hoses.
- Refrigerant or oil leakage due to unsuccessful pipe connections.
- Problems caused by rough handling unit during bad installation or abnormal usage.

Technical Support
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Email: hiseer_techsp@ymgigp.com

Foreword & Contents

Air conditioners are units that should have the professional technicians do the installation for you. This Instruction Guide is the universal-purpose version for the models of split units that you purchase might be slightly different from the ones described in the Guide, but it does not affect your proper operations and usage. Please read carefully the sections corresponding to the specific model you choose, and Keep the Guide properly so as to facilitate your reference at later time.





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Important Notes

SAFETY WARNINGS

READ THESE SAFETY WARNINGS COMPLETELY PRIOR TO ANY USE.

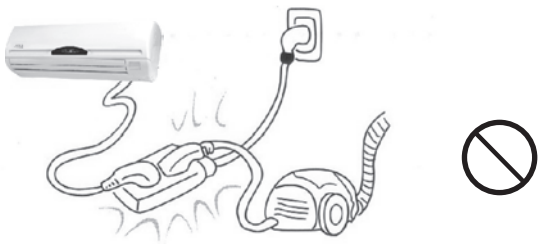
	Ground connection		Forbidden
	Disconnect the plug		Imperative

These precautions are essential and must be strictly observed.

DO NOT draw on the power cord or refrigeration lines. Install them in secured positions. Plastic cover of line set is recommended.



DO NOT use smaller than enough wires. Do not put several circuits to one breaker. Don't use smaller than enough circuit breakers. Otherwise power failure or fire may be caused.



DO NOT pull on the power cord or refrigeration lines. Install them in a secured position. A line set plastic cover is recommended.

DO NOT install the unit in places where there is exposure to flammable materials or gas leakage.

DO NOT use wire or circuit breakers that do not meet electrical safety standards. Several circuits cannot be connected to one breaker.

DO NOT wire or open the unit while it is running. Make sure to shut off all circuits prior to inspecting or servicing the unit.

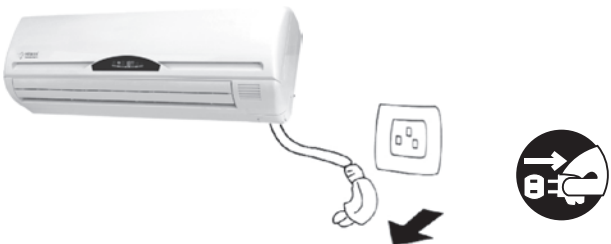
DO NOT install unit in a damp laundry room or near flammable gas. All units must be protected by certified electrical circuit breakers and in accordance with all safety codes.

DO NOT use the unit in cool or dry mode for prolonged periods where humidity is higher than 80%.

DO NOT blow the cold air directly towards people for prolonged period. Otherwise, people may get cold.



DO NOT wire or open unit while unit is running. Sparks or fire may occur. It may cause a shock to people.



DO NOT install the indoor unit close to cooking surfaces or ventilation systems. Poor placement could inhibit peak performance.

DO NOT blow cold air directly towards people for extended periods. It may get you a bad cold.

DO NOT use chemical solvents, flammable insecticides, or abrasive materials. Clean the unit only with a soft dry cloth or rag.

DO NOT continue to operate the unit if there is any abnormal odor, burning, scorching, or smoke. Stop and disconnect the unit immediately.

DO NOT use the system for anything other than what it was designed for or any non-HVAC purposes. Do not store near food, paint, or other chemicals.

DO NOT operate the unit for prolonged periods without refreshing ambient air. Opening a door or window periodically will suffice.

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Important Notes

SAFETY CAUTIONS AND ALERTS

Installation, Operation, Maintenance, and Service shall follow professional standards and practices for conventional cooling and heating equipment, under International, National, State, City or Local Codes, and follow guidelines listed in all related manuals and associated product information provided directly from HiSEER. Failure to adhere to proper Installation, Operation, Maintenance, and Service could result in damage to equipment, personal property, or physical injury, or even death.

Installation must be performed following the HiSEER Installation/Maintenance Manuals.

Installation must be performed by a certified technical installer only. DO NOT attempt to install the unit by yourself trying to save money. Improper or Incomplete Installation will void HiSEER provided warranty and could result in injury or death or property damage due to fire, electrical shock, leaking, collapsing. Shall consult the authorized HiSEER Distributor or Dealer for recommended Contractors/Installers.

Install the unit onto a strong load bearing structure. The location must be capable of handling the weight load of the unit to prevent the unit from falling or causing injury. Attach both the indoor and outdoor units to the brackets that are fixed to the right position securely.

Only use manufacturer specified and codes allowed wires and conduits to connect to the units so the stress is not applied to the sections. Incomplete connecting and insecure fixing could cause fire or damage.

Wiring must conform to national regulations. Failure to adhere to these standards could result in personal injury or death or property damage due to fire, electrical shock, falling units, or leaking.

Connect the power cord directly to a designated and exclusive AC Power Circuit Breaker and or Disconnect Switch. The circuit must exceed permissible currents and is free of insulation and contact defects. Shall refrain from intermediate or multiple connections to avoid fire or electric shock.

DO NOT supply power until all wiring and tubing is checked completely.

Double check for gas leaks during or after installation. The refrigerant gas may cause harmful substances when subjected to heat or fire. Refrigerant leakage will cause unit not to generate enough cooling or heating and even damage compressors and other parts.

Shut off the main power prior to and during installation to avoid electrical shock. Make sure that the electrical power is disconnected from the unit by making a notice or put a sign at the power switch panel, to keep other people from setting the power back during installation.

Connect all wiring securely. Any loose wire or other bad contact may cause an electrical arc, overheating, or fire hazard. Make sure that the unit is grounded following HiSEER Instructions and all NEC, International, State, City, and Local Codes. Electrical cover shall be securely attached to the indoor and outdoor unit service panels, otherwise, could result in fire or electric shock due to accumulation of dust, sediments, water, moisture, etc.

Only use authorized HiSEER parts in the installation, maintenance, service, and repair of HiSEER units. The use of non-authorized or defective parts will void the warranty and could cause injury or death or property damage due to water leakage, falling units, fire, electric shock, etc.

Pay extreme caution to interconnecting refrigerant copper tubing, when installing or relocating the unit. Make sure that no other substance than the specified refrigerant enters the refrigeration circuit. Any presence of foreign substances such as air or water or moisture can cause an abnormal pressure rise or overheat, which will result in an inefficient unit performance or unit malfunctions, and will shorten unit lifetime.

Pay extreme caution to interconnecting refrigerant copper tubing, when installing or relocating the unit. Tape two ends of the copper tubing, tape the wires for the corresponding indoor unit to the copper tubing, and mark well with either A, B, C or D to identify each copper tubing/wiring bundle. **Not to cross wiring or tubing among indoor units of the multiple zone systems.** The electrical wiring and copper tubing from each zone of indoor unit shall be connected to the corresponding wiring and copper tubing connections of the corresponding outdoor section (at outdoor condensing unit). Failure to do so will cause unit malfunctions, or damages to the compressors and other parts in the unit and even property or personal injuries.

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Important Notes

HiSEER LIABILITY DISCLAIMER

HiSEER is NOT and shall NOT be responsible for any problems due to unprofessional, incorrect, incomplete installation, abuse to the unit, or abnormal usage which would be considered outside normal constraints, and natural disasters such as fire, flood, earthquake, lighting, or others similar.

HiSEER IS NOT AND SHALL NOT RESPONSIBLE FOR:

Damage to the units or property or person due to careless, or incautious, or Rough Handling at job site, such as pulling wires or pipes or plastic parts too hard, dropping units, robbing unit surfaces, and etc.

Damage to the units or property or person due to Unprofessional or Incorrect or Incomplete Mechanical installation of units. Examples, not limited to, are: sharp bending, not finding kinks, cracking or deterioration of connecting pipes, unevenly sitting units, not securing the units, not cleaning or leaving dirty inside of or not tightening interconnecting pipes, not finding refrigerant or water leakage, not vacuuming, not opening

refrigerant stopping valves at condensing units, not checking pressures, not covering bared refrigerant pipes and connections, not taping wire connections, not sealing drain pipe connections, incorrect piping such as crossing piping among multiple zones, and etc.

Accumulated costs, services, or disasters due to unprofessional or incorrect or incomplete installation, or abnormal usage of the units.

Damage to the units or property or person due to Unprofessional or Incorrect or Incomplete Mechanical or Electrical Installation not mentioned above.

Damage to the units or property or person due to any other Poor Installation not conforming to HiSEER user regulations, installation manuals and recommendations.

Damage to the units or property or person due to any other Improper Usage not conforming to HiSEER user regulations, user operation manuals and factory recommendations.

Under performance or damage due to Operating the Air Conditioning System under Poor Physical Conditions such as anywhere there is airflow blockage, too much sunshine, too much corrosive gas or the sort.

Under performance or damage due to the Usage Outside the HiSEER Recommended Operation Ambient Conditions including proper temperature and humidity ranges.

Under performance or damage due to the Undersized or Oversized Unit Selection, Improper Design, Incorrect Unit Anticipation, and the sort.

Important Notes

AGAIN, HiSEER IS NOT AND SHALL NOT BE RESPONSIBLE FOR:

Under performance or damage to the unit, property or person, at low vacuum level due to unprofessional or incautious or bad installation, or damage to the unit or interconnecting pipes after installation and during usage.

Under performance or damage due to exceeding the recommended distances or elevation levels between indoor and outdoor units.

Under performance or damage due to the presence of any foreign substances left inside refrigeration pipes.

Under performance or damage due to the materials left in the air-conditioner during installation.

Under performance due to poor installation or abnormal usage in other formats.

Water leakage problems due to incorrect or poor installation or unsealed drain hoses.

Damage due to refrigerant or oil leakage as a result of unsuccessful pipe installation or damage to the unit and or pipes during or after installation.

Damage due to supplying power before all wiring and tubing is completely finished and checked.

Damage due to not keeping units in the right positions during handling, installation or operation.

Damage due to not grounding or poorly grounding unit, incorrectly wiring units, loose or unsecured wiring, or other bad contact which may cause an electrical arc, overheating, or fire hazard.

Damage or repairs required as a consequence of faulty installation or application.

Damage due to failure to start as a consequence of exceeding recommended voltage ranges (too low or too high), blown fuses, open circuit breakers.

Damage due to the inadequacy or interruption of electrical service.

Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.

Damage due to the usage of parts not supplied or designated by HiSEER International.

Damage to the unit, property, and/or person of whatever kind, direct or indirect, special or consequential, resulting from the improper installation or usage of such products.

Damage from the units installed and operated outside **USA or Canada or Mexico**.

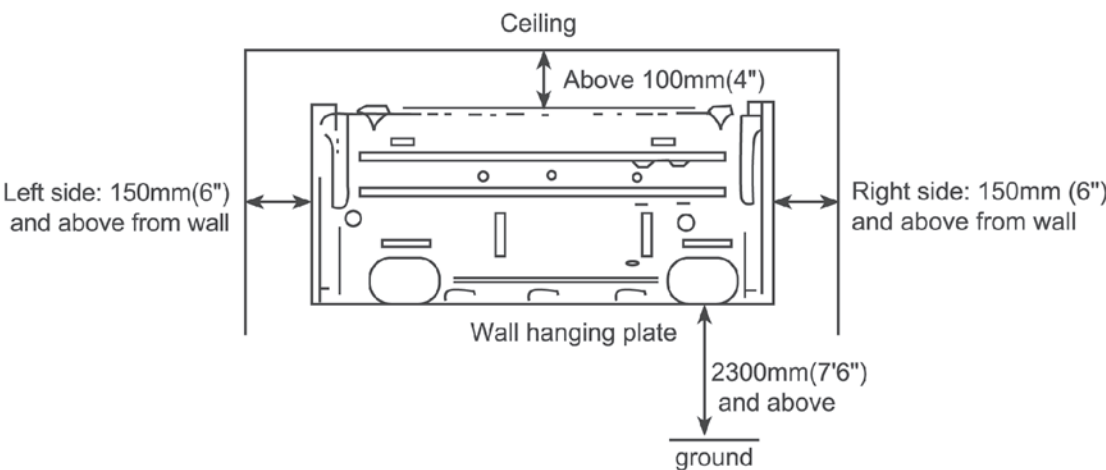
Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of HiSEER International.

Selection of installation positions for indoor unit

- To be installed at the position where the air delivered from the unit can reach every corner of the room;
- To avoid being affected by the outdoor air;
- To avoid blockage to the air inlet or outlet of the unit;
- To avoid too much oil smoke or steam;
- To avoid possible generation, inflow, lingering or leakage of flammable gases;
- To avoid high-frequency facilities (such as high frequency arc welders, etc.);
- To avoid the places where acid solutions are frequently used;
- To avoid the places where some special sprayers (sulfides) are frequently used.
- Not to install on top of the musical instruments,TV,computer etc.valuable appliance.
- Not to install a fire alarming device near the air outlet of the unit (during operation, the fire alarm device might be erroneously triggered by the warm air from the unit);

■ Make sure of enough space for installation and maintenance.

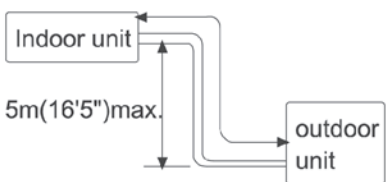
- To take into consideration the operational convenience and safety in installation, it is recommended to ensure enough space between the unit and the walls.



Attention:If there are some additional function devices to install on the air conditioner,Be sure add to the installation space for the function devices.

■ Height limits of indoor and outdoor units.

- Either the indoor unit or the outdoor unit can be higher, but the height difference must comply the stated requirements.
- Try to reduce the bending of the piping line as much as possible so as to avoid possible negative impacts upon the performances of the units.



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Selection of installation positions for outdoor unit

- To install the outdoor unit at the places which can stand the load of the machine weight and will not cause big vibrations and noises;
- To install the unit at the places not to be exposed to rain or direct sunshine, and the places with good ventilation;
- The noises generated from the unit will not affect the neighboring places;
- Do not install the unit on non-metal frame;
- Not to install the unit at the places where there might occur the generation, inflow, stay or leakage of inflammable gases;
- Pay attention to the drainage of the condensed water from the base plate during operations;
- To avoid the air outlet being directly against the wind.

Detailed space requirements around the outdoor unit

1. When there are obstacles above the unit

2. When the front (air outlet) is open

3. When there are obstacles only in the front (air outlet)

Space for maintenance
Shown as in the following figure. Keep the maintenance space in front of the unit.

4. When there are obstacles at the front and rear sides.

5. When there are obstacles all around the unit on four sides.

Although the top side is open, the installation is not to be done if there are obstacles all around.

● At least two sides should be kept open.

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Installation fixture of indoor unit

Pipelines can be connected in the directions of①、②、③、④、 and⑤ as indicated in Fig.1. When the pipelines are connected to the directions of③、④and⑤, a groove for the pipes has to be opened at the proper place on the base stand.

1.Installation of wall-mounting plate

Fix the wall-mounting plate firmly on the wall with screws. Make sure of the leveling of the plate. Slanted wall-mounting plate might jeopardize the smooth discharge of the condensed water.

2.Drill holes on the wall

Drill holes at places slightly below the wall-mounting plate, with hole diameter of 65mm(2-3/5") and the outer edge of the hole 5-10mm(1/5-2/5") lower (Fig.2) so that the condensed water can smoothly flow out. Cut the wall penetrating pipe to proper length according to the thickness of the wall (3-5mm(1/10-1/5") longer than the wall thickness) and insert the pipe as indicated in Fig.2.

3.Installation of drain pipe

Install the pipelines of the indoor unit in accordance with the direction of the wall holes. Wrap tightly the drain pipe and the pipelines with tape. Make sure that the drain pipe is underneath the pipelines. (Fig.3) (When the drain pipe passes the room interior, some condensed water might occur to its surfaces if the humidity is very high).

4.Installation of indoor unit

Pass the connection wires, connecting pipelines and drain pipe through the wall hole. Hang the indoor unit on the hooks at the top of the wall-mounting plate so that the hooks at the bottom of the indoor unit match the hooks of the wall-mounting plate. (Fig.4)

Fig.1

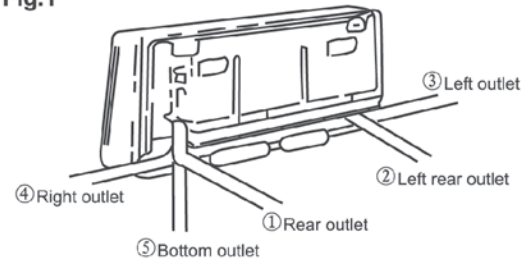


Fig.2

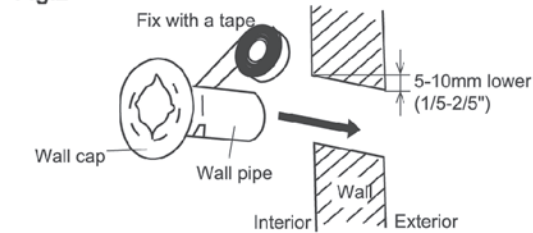


Fig.3

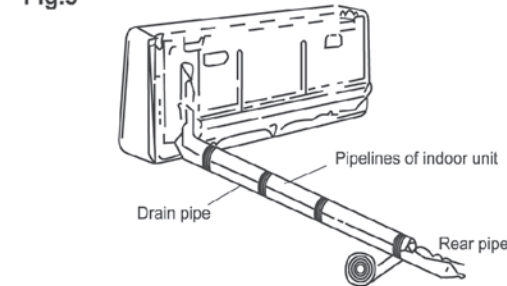
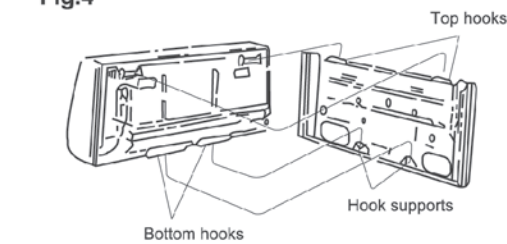


Fig.4

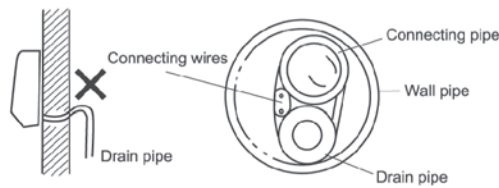


Installation fixture of indoor unit

Inspections:

- a. Check if the hooks at the top and bottom are firmly fixed.
- b. Check if the position of the master unit is properly leveled.
- c. The drain pipe should not curve upward (Fig.5).
- d. The drain pipe should be at the lower part of the wall pipes (Fig. 5).

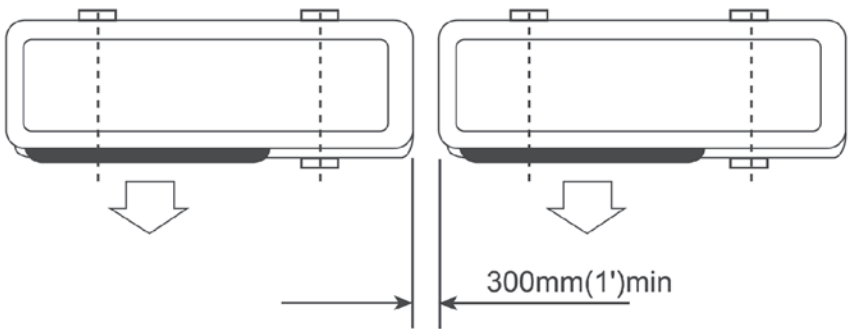
Fig.5



Installation fixture of outdoor unit

- Try to ship the product to the installation location in its original package;
- As the gravity center of the unit is not at the installation center, special caution should be taken when using hoisting cables to lift it up;
- During shipping, the outdoor unit must not be slanted to over 45 degrees (Do not store the unit in a horizontal way).
- Use expansion bolts to fix the mounting supports on the wall;
- Use bolts and nuts to fix the outdoor unit firmly on the supports and keep on the same level;
- If the unit is installed on the wall or at the rooftop, the supports have to be firmly fixed so as to resist earthquake or strong wind.

Dimensions for parallel units installations



【Ordinary pipelines connection & Air purging】

- The following ordinary pipelines connection and air purging procedures are just suitable for non-quick coupler model.

■ Ordinary pipelines connection

No dust ,foreign articles,air or moisture should be allowed to enter the air conditioning system.Careful attention should be paid when pipeline connection for outdoor unit is made.Try to avoid repeated curves as much as possible,otherwise hardening or cracks might be caused to the copper pipes. Suitable wrenches should be used when the pipeline connection is done so as to ensure appropriate torque(refer to following torque Table 1).Excessive torque might damage the joints while too little torque might lead to leakage.

Installation fixture of outdoor unit

Table 1 Torque based upon the wrench to be used

Outer diameter of copper pipe	Tightening torque	Strengthened tightening torque
Ø 6.35(1/4")	160kgf.cm(63kgf.inch)	200kgf.cm(79kgf.inch)
Ø 9.52(3/8")	300kgf.cm(118kgf.inch)	350kgf.cm(138kgf.inch)
Ø 12.7(1/2")	500kgf.cm(197kgf.inch)	550kgf.cm(216kgf.inch)
Ø 15.88(5/8")	750kgf.cm(295kgf.inch)	800kgf.cm(315kgf.inch)
Ø 19.05(3/4")	1200kgf.cm(472kgf.inch)	1400kgf.cm(551kgf.inch)

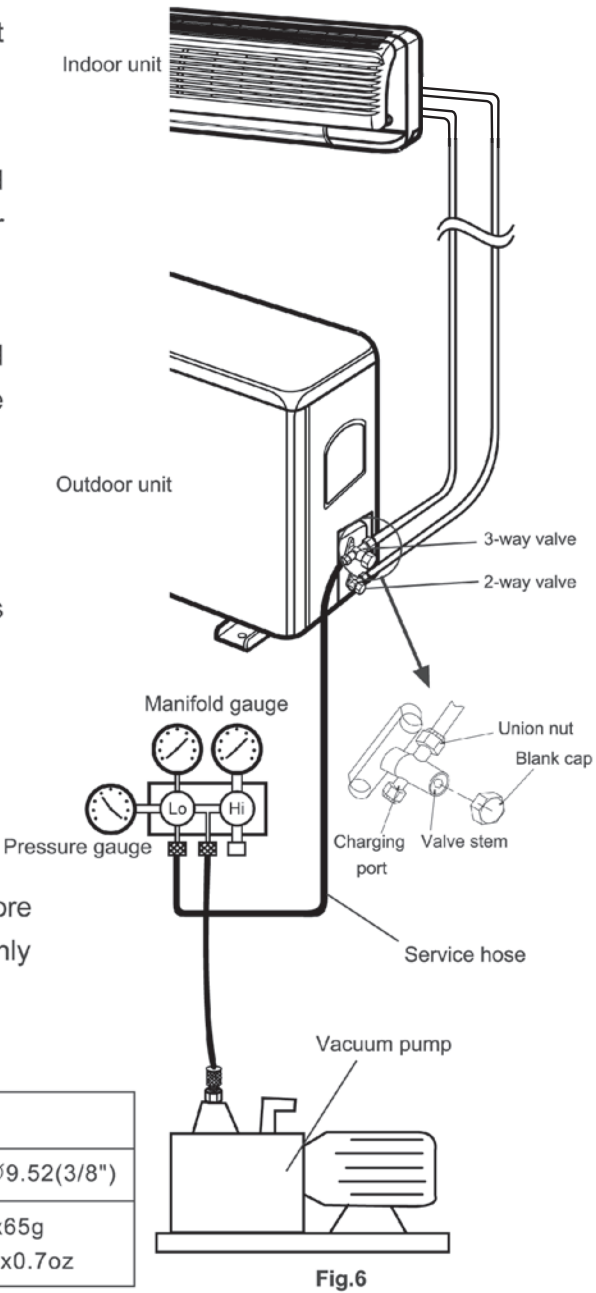
Air purging with vacuum pump

- 1.Check that pipelines connection have been properly connected,remove the charging port cap,and connect the manifold gauge and the vacuum pump to the charging valve by service hoses as shown Fig.6.
- 2.Open the valve of the low pressure side of manifold gauge,then,run the vacuum pump.Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5mmHG(The operation time for vacuuming is about 10 minutes).When the desired vacuum is reached,close the valve of the low pressure of the manifold and stop the vacuum pump.
- 3.Disconnect the service hoses and fit the cap to the charging valve.
- 4.Remove the blank caps,and fully open the spindles of the 2-way and 3-ways valves with a service valve wrench.
- 5.Tighten the blank caps of the 2-way and 3-ways valves,applying the above torque Table 1.

Adding refrigerant

Refrigerant must be added if the piping measures more than 5 metres(16'5") in length.This operation can only be performed by a professional technician,for the additional amount,see the table 2 below.

Additional refrigerant amount	
Liquid pipe diameter Ø6.35(1/4")	Liquid pipe diameter:Ø9.52(3/8")
(piping length-5)m×30g or (piping length-16)ft×0.3oz	(piping length-5)m×65g or (piping length-16)ft×0.7oz



Installation fixture of outdoor unit

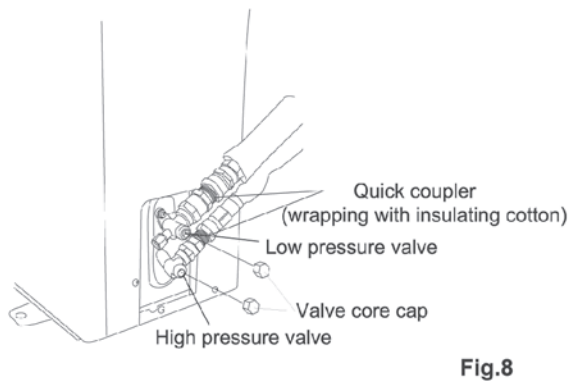
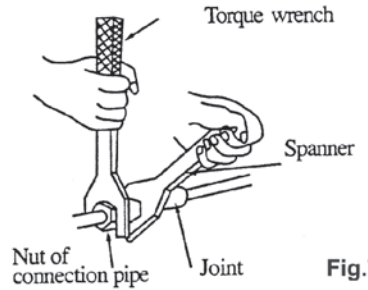
Gas leakage inspection

After the pipieline connection is done,use a leakage inspection device or soap suds to carefully check if there is any leakage at the joints.This is an imporant step to ensure the quality of installation.Once a leakage is detected,proper treatment should be taken immediately.

Pipelines connection for split type quick coupler model

- If you purchase the machine for split type quick coupler model,please adopt the following pipeplines connection procedures:

- 1.Remove the dust caps from the indoor and outdoor units, and the connecting pipe.
- 2.Align the joint counter of connecting pipe with the proper indoor and outdoor joint conic surfaces,tighten the connecting nut manually.Then,make it secure with a wrench as shown Fig.7 ,applying to above torque Table 1.
- 3.Remove the two valve core caps from the outdoor unit.
- 4.Turn on the high and low pressure valve cores with an socket wrench,then tighten the two valve core caps of the outdoor unit (Fig.8).
- 5.Finally ,wrap the hot insulating cotton around the joints of indoor and outdoor units.



Notes on installation of quick coupler:

- 1.Connecting pipe bending minimum radius parameters (Table 3)
- 2.Quick coupler assembly and disassembly limit: the assembly and disassembly times are inadvisably more than 7.

Table 3 Minimum bending radius

Normal diameter(mm)	Minimum bending radius(mm)	cooling capacity
DN8(5/16")	80(3")	2100~2300W (7000~8000BTU)
DN10-12 (1/2")	100(4")	2500~5100W (9000~18000BTU)
DN14-16 (5/8")	150(6")	6100~7000W (22000~24000BTU)

Pipelines connection for Whole-unit type quick coupler model

● If you purchase the machine for Whole-Unit type quick coupler model,please adopt the following pipelines connection procedures:

STEP 1

● Remove two screws on the maintance plate with a screwdriver and take off the plate,then remove the dust caps on both indoor male coupler and outdoor female coupler,See Fig.9.

STEP 2

● Press the projecting section of outdoor female coupler backward with a little force by the thumb to make inner hooks open, and then you can easily take out the outdoor valve for gas leaking by the other hand,See Fig.10.

STEP 3

● In the same way,press the projecting section backward,then connect the indoor male coupler to the outdoor female coupler,See Fig.11.

STEP 4

● Close the key lever of indoor male coupler to the horizontal position,then indoor and outdoor refrigerant will be circulating,and now you can obvioulsy hear the sound of inner air flowing ,See Fig.12.

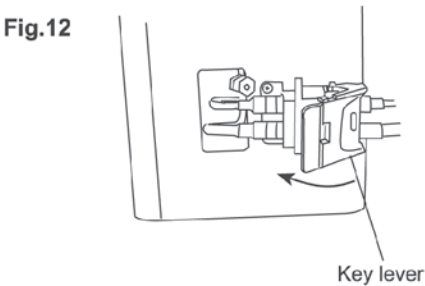
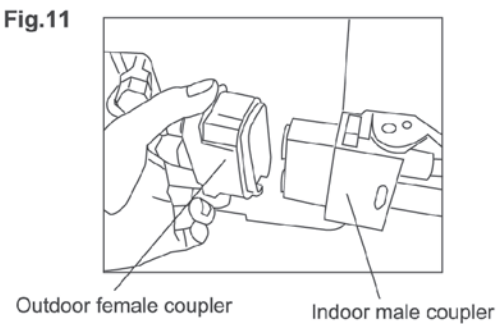
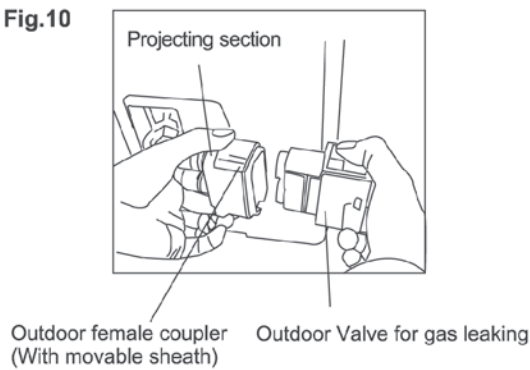
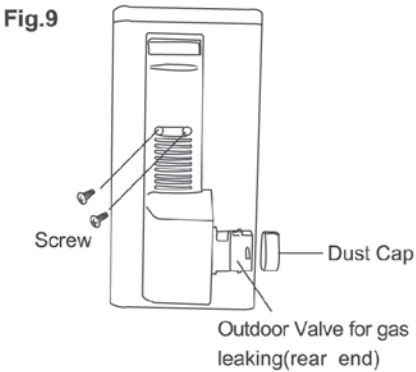
STEP 5

● Connect the outdoor quick cable coupler with indoor quick cable coupler,See Fig.13.

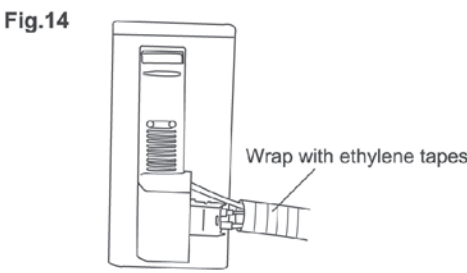
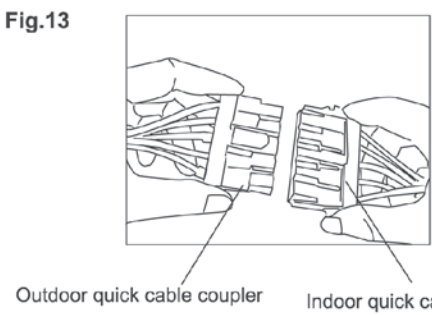
STEP 6

● Finally,Re-install the maintance plate back into its place,See Fig.14.

As for the outdoor valve for gas leaking and the dust caps,you can preserve them for future possible use on the removal of your air conditioner.



Pipelines connection for Whole-unit type quick coupler model



【Connection of power cable】

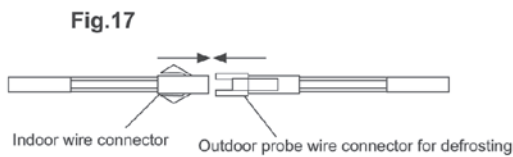
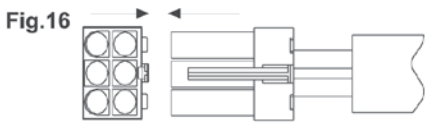
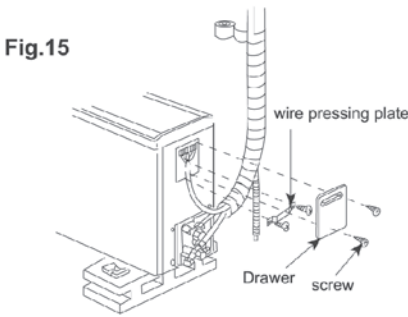
1.Remove the drawer of the outdoor unit.

2.Non-quick coupler:connect the indoor power and control wires with the matched outdoor wires in accordance with the electric schematic diagram and make sure that the connection is firmly done(Fig.15.)

Quick coupler:directly connect quick cable couplers with indoor and outdoor quick cable couplers after disassembly of the outdoor unit connecting box cover(Fig.16.)

3.Use a press plate to fix the wires firmly,and re-install the drawer.

4.Optional steps:In some cooling and heating models,you should connect the indoor wire connector with outdoor probe wire connector for defrosting,see Fig.17.



Note:Do not connect the wires in a wrong way,otherwise electric malfunctions will be caused and even damages to the units will occur.The appliance shall be installed in accordance with national wiring regulation.If the supply cord is damaged,it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.The plug shall be accessible after installing the appliance.If the model have not plug that a switch which have a contact separation of at least 3 mm in all poles shall be added in fixed wiring.

【Finishing touches】

- wrap the piplines tightly with ethylene tapes.
- Fix the wrapped pipelines on the exterior wall with clamps.
- Fill in the gaps left over by the pipeline hole and wall hole to prevent rain-water from entering.

【Test running】

- Connect to the power source,check if the function selection keys on the remote controller are working properly.
- Check if the room temperature adjustments and timer settings are working properly.
- Check if the drain is smooth.
- Check if there is any abnormal noise or vibration during operation.
- Check if there is leakage of refrigerant.

Is the unit installed correctly

Suitable Installation Position

- Isn't there anything which prevents ventilation or obstructs operation in front of the indoor unit ?
Do not install the unit following place .
 - Inflammable gases may leak .
 - Oil splashes a lot .
 - In case where the unit is used in such places as poisonous or sultry gases are generated or seaside district exposed to sea breezes corrosion may cause malfunction . Consult with your distributor .
 - Air conditioner body and remote controller must be 1 m(39-3/4") or more away from a TV or a radio.
- Drain the dehumidified water from the indoor unit to a place which drains well .

Pay attention to operation noise

- When installing the unit , choose a place which can stand the weight of the unit well and does not increase the operation noise or vibration . Especially where there is a possibility that vibration be transmitted to the house , fix the unit by inserting attached vibration -proof pads between the unit and fittings .
- Choose the place where hot air and operation noise from the outlet of the outdoor unit do not annoy the neighborhood .
- Things left near the outlet and inlet of the outdoor unit cause malfunction or increased operation noise . Do not leave obstacles near the outlet and inlet .
- If irregular sound is heard during operation , consult with your distributor .

Inspection and Maintenance

- According to the service conditions and operating environment , the inside of the air conditioner will become dirty after several seasons (3 to 5years) of service , resulting in decreased operating performance .Inspection and maintenance are recommended in addition to usual cleaning (The air conditioner can be used for a longer period and without anxiety .)
- As to inspection and maintenance , consult your dealer or any one of business offices of dealing companies .(Service charge is required in this case .)
- We recommend to perform inspection and maintenance during an off seasons.

Self diagnosis functions

Our company provides the thoughtful services for customer,air conditioners had been installed self diagnosis system to display the information for the units.

Self-check information	Self-check code of luminotron/ (Self-check code of running lamp)	Digital self-check code/ (Polychrome screen self-check code)
Hint to defrosting	Flicker 1 time/1s	Indicates "dF"or defrosting indicator displays
Hint to defense against cold wind	Flicker 1 time/3s	Fan motor picture not running
Failure of room temperature sensor	Flicker 2 times/4s (Flicker 2 times/8s)	E2/(L2)
Failure of coiled pipe sensor	Flicker 3 times/5s (Flicker 1 time/8s)	E3/(L1)
Abnormality of outdoor unit	Flicker 4 times/6s (luminating)	E4/(E5)
Without feedback of internal fan motor	Flicker 5 times/7s (Flicker 6 times/8s)	E5/(L6)
Zero crossing signal without current	Flicker 6 times/8s	E6
External feedback failure	Flicker 7 times/9s	E7
Overheat protection	Flicker 8 times/10s	E8
Water pump failure	Flicker 9 times/11s	E9

Note:Above self check information is commonly applicable in our most air conditioners,but some are special,you can refer to the User's Manual for information or contact the dealer or authorized maintenance people for help.




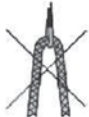

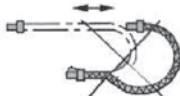




Quick connector installation instruction

This sheet only guides the requirements of the installation for stainless quick connector pipe.Other installation requirements please refer to the installation guide along with the unit.

- To expand the connecting pipe,please hold one side then expand it following the right direction.
- Please insure the angles have a radian at some extent while intalling the stainless soft pipe. Angels need to be around, not bended.(to the quick connecting spot and drilled point of wall.
- Please fix the stainless soft pipe while installing because the connecting pipes are soft, so that prevent them from getting bended or stretched.
- The minimum bending radius are as follows:

Stainless soft pipe	Model	Minimum bending radius(mm)
Φ Eight	Twenty-one, Twenty-five	Eighty(mm)
Φ Ten	Thirty-five	One hundred(mm)
Φ Thirteen	fifty-one	One hundred and fifteen(mm)

Installation Guide

To keep the allowed bending radius,please make the packed soft pipes vertical for expanding.			Please do not expand only one side of the packed soft pipes.
Please make use of semicircle pulley to keep the allowed bending radius.			Extremely bending could damage the pipes.
Please use twisting wheel to avoid improper bending.			Over length soft pipes will lead to irregular bending.
Please use rigid elbow to keep the bending radius while soft pipes operating.			Undersize bending will damage the soft pipe.
Please Keep the minimum bending radius while installing.			Short soft pipes will have them bending undersize,it's not allowed.

Finish Installation

- Put back all covers, screws removed during installation and start-up.
- Properly note, mark, organize and secure wires.
- Caulk the opening to weatherproof level at opening frame both inside and outside.
- Do a final visual inspection.
- Teach or instruct owner or users how to correctly operate the system and answer their questions.
- **Check against all the items in Product/Warranty Registration Card and sign it for the owner.**

User Notes And Service Log

User notes

Put down whatever questions you have or phenomenon you have seen as a unit history:

No.	Date	Questions or Phenomenon	Remarks

Service/maintenance log

Put down whatever questions you have or phenomenon you have seen as a unit history:

No.	Date	Service/Maintenance Conducted	Person/Phone

Warranty And Tech. Support

HiSEER International warrants to the purchaser/owner(s) that HiSEER products be free from defects in material and workmanship under the normal use and maintenance, with the following policies:

Please see Warranty Policy that comes with the unit or sales package for more details.

Hiseer international is not responsible for

- Regular equipment maintenance.
- Damage or repairs required as a consequence of faulty installation or application.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers, or other damages due to the inadequacy or interruption of electrical service.
- Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
- Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of HiSEER International.
- Parts not supplied or designated by HiSEER International.
- Products installed outside USA or Canada.
- Any damages to person or property of whatever kind, direct or indirect, special or consequential, whether resulting from use or loss of use of the product.

Contact for field service or repair

The following people, in a prioritized sequence, will take care of your request or issue:

- 1) The original installer; otherwise,
- 2) Your current service contractor; otherwise,
- 3) Authorized contractor in HiSEER International list that is close to you; otherwise,
- 4) Authorized Distributor in HiSEER International Distributor list; otherwise,
- 5) Contractor/Distributor you prefer who is close to you.

Contact for general technical questions or support:

The original installer; otherwise,

The current service contractor; otherwise,

The nearest distributor; otherwise,

HiSEER International Technical Support:

Tel: (866) 833-3138*704 Fax: (866) 377-3355

Email: hiseer_techsp@ymgigp.com

www.Thermospace.com

Limited Warranty Policy



LIMITED PRODUCT WARRANTY POLICIES

HiSEER International (HiSEER) products are designed and manufactured free from defects in workmanship and materials for normal use and maintenance. HiSEER products are designed and manufactured to the qualities to keep installer(s) and user(s) from any trouble and to bring total comfort to unit(s) owner(s) and end user(s).

HiSEER warrants its products against any unexpected issues occurred to product itself, though designed and manufactured and expected to work much longer than the warranted period, as follows:

- 1. Five-year compressor and sealed system
- 2. One-year other parts
- 3. Ground shipping only

Above warranties valid only if all the following are satisfied:

- 1. The unit was installed by authorized technician(s) of state certified or licensed contractor(s) only.
- 2. The unit is installed per national and local codes.
- 3. The unit is installed following installation instruction coming with HiSEER products.
- 4. The unit is fully checked and tested by installer(s) to make sure installed unit functions as expected.
- 5. Right operation of the unit is explained clearly to the owner(s) by installer(s).
- 6. All fields are filled or checked, signed and dated by both installer(s) and owner(s) on the LIMITED PRODUCT WARRANTY REGISTRATION CARD on the other side of this page.
- 7. Registration card must be mailed within 7 calendar days after the original installation is finished or your NEW home (unit is not checked or used yet) is closed, whichever comes later, by the owner(s) to HiSEER Warranty Registration, POB 1559, O'Fallon, MO 63366.
- 8. A full copy of warranty reGstration card must be kept by owner(s) safely along with other documents that come with the product.

No warranty may be valid if any one of above 8 conditions is not fulfilled.

Warranty begins on the date of the original installation or the date of NEW home (unit is not checked or used yet) is closed, whichever comes later.

As its only responsibility, and your only remedy, HiSEER will furnish replacement part, without charge for the PART(S) and Ground Shipping ONLY, to replace any part found to be defective due to manufacture workmanship or materials under normal use and maintenance. Any part replaced pursuant to this warranty is warranted only for the unexpired portion of the warranty term applying to the original part.

These warranties do not apply to any other cost associated with the service, repair or operation of the product.

For warranty credit, defective product(s) or part(s) must be identified by HiSEER's distributor(s) or approved HiSEER Service Center(s). In case no distributor(s) or service center(s) available in the area where unit is installed, owner(s) need to contact HiSEER for assistance before further action is to be taken.

Warranty policy herein DOESN'T cover:

- 1. Any damage or repairs to properties and person(s) as an incident or consequence of faulty or improper transportation, installation, operation, maintenance, or service that ISN'T physically performed by HiSEER.
- 2. Any damage caused by frozen or broken water pipes in the event of equipment failure.
- 3. Any damage as a result of floods, fires, winds, lightning, accidents, corrosive atmosphere or other conditions beyond the control of HiSEER.
- 4. Any damage resulted from use of components or accessories not specified, supplied or designated by HiSEER.
- 5. Any damage because of failure to start due to interruption and/or inadequate electrical service.
- 6. Any products sold or installed outside the United States or Canada.

Any damage due to service performed by third parties, it is the product receivers(s) or owner(s)'s responsibility to claim such damage resulted from these activities to the responsible party:

- 1. Transportation, installation and operation.
- 2. Normal maintenance and service as described in the installation and operating manual, such as cleaning of the coils, filter, cleaning and/or replacement and lubrication.

HiSEER keeps on product improvement and such improvement is purposed to further benefit installerS, owners, users and others. Such improvement or changes, even without notice, including but not limited to specifications, functions, appearance, sizes, packages or others, of the products are HiSEER's sole right(s). These improvement or changes will not invalidate the limited warranty stated herein.

For further information about this warranty, contact HiSEER Warranty Registration

Warranty Registration



LIMITED PRODUCT WARRANTY REGISTRATION CARD

Product-Indoor Unit Brand: Outdoor Unit Brand:
Product-Indoor Unit Model No.: Outdoor Unit Model No.:
Product-Indoor Unit Serial No: Outdoor Unit Serial No.:

Installed at Address:

Street name and number, City, State, Zip code, Phone No. Fax No.

Purchased from Distributor Company/Branch Office Located at:

Street name and number, City, State, Zip code, Phone No. Fax No.
☐ Indoor Unit ☐ Outdoor Unit ☐ Packaged Unit (Please Check Whatever Applicable)

Installed by Contractor Company/Branch Office Located at:

Street name and number, City, State, Zip code, Phone No. Fax No.

Valid Contracting Company License No.:
Full Name of Installer Technician: Cell Ph.: Office Ph.:
Installed on Date (mm/dd/yyyy):

Installer Checklist:

- Are you a licensed contractor/technician?
- Did you read through the manual(s) prior to installation?
- Is unit unpacked and checked by installer for obvious damage?
- Source power V/Ph/Hz measured at circuit breaker at the indoor unit: outdoor unit:
- Incoming power V/Ph/Hz measured at terminal block of control Box of indoor unit: outdoor unit:
- Is factory wiring checked all right prior to installation?
- Is field wiring following diagram in unit or manual(s)?
- Is field wiring following national and local codes?
- Are fan wheels checked for smooth rotation free of abnormal noise?
- Is coil sealing/vacuum checked and passed prior to installation?
- What level vacuum is reached and kept for how long?
- Is refrigerant piping length within stated ranges and free from kinks or too much bending?
- Is refrigerant leakage/charge/pressure checked all right for the sealed system?
- Is refrigerant charged to solid flow right before metering device?
- Is condensate drain pan or pipe checked all right free of any leakage?
- Do air intake and discharge grills have enough open area free from any blocking?
- Are indoor and outdoor unit fans observed being started, running and stopped in right ways?
- Is compressor observed being started, running and stopped in right ways?
- Are system/unit functions tested and checked to be surely all right?
- Is system/unit tested to run for at least 30 minutes?
- Did you explain or teach owner(s) or end user(s) clearly the right operation or normal maintenance of the system/unit?
- Does your company provide and will follow installation/service warranty policy?

Print Name of Installer: Print Name of Owner:
Signature of Installer: Signature of Owner:
Date: Date:

To Validate This Warranty, Please Mail the Fully Filled and Signed Card to HiSEER Warranty Dept., POB 1559, O'Fallon, MO 63366 Within 7 Calendar Days After Original Installation, or New Home (Unit is Not Used Yet) is Closed, Whichever Comes Later.