DUCT TYPE AIR CONDITIONER

Operation & Instruction Manual

AD182AMBEA(ECO) AD242AMBEA(ECO) AD28NAMBEA(ECO) AD36NAMBEA(ECO) AD42NAMBEA(ECO)

No. 0010577352B

- Please read this operation manual before using the air conditioner.
- Please keep this manual carefully and safely.

Table of Contents

Cautions 2
Safety Precautions 3-5
Parts and Functions 6
Malfunction 7-8
Care and Maintenance 9
For Preparation of Heating("Hot Keep") 10
Is The Unit Installed Correctly 11
Installation Manual For Indoor Unit12-17



Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

• Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.

• Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.

• Installation shall be done by professional people, don't install unit by yourself.

• For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.

• All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditoiner.

• Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.

• Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.

• Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

Safety Precautions

- Before starting to use the system, read carefully this "SAFETY PRECAUTIONS" to ensure a proper operation of the system.
- Safety precautions described here are classified to "A WARNING" and "A CAUTION". Precautions which are shown in the column of AWANING" means that an improper handing could lead to a grave result like a death, serious injury, etc. However, even if precautions are shown in the column of "A CAUTION", a very serious problem could occur depending on situation. Make sure to observe these safety precautions faithfully because they are very important information to ensure the safety.
- Symbols which appear frequently in the text have following meanings.



serious injury or death.

fire

a collapse.

Strictly prohibited.



Observe instructions faithfully.



Provide a positive grounding.

When you have read through the manual, keep it always at hand for read consultation. If the operator is replaced, make sure to hand over this manual to the new operator.

CAUTIONS FOR INSTALLATION

AWARNING

The system should be installed by your

The system should be applied to places as office, restaurant, residence and the like.

Do not install nearby the place where may have leakage of flammable gas.

If the gas leakes and gathers around, it may cause the

Where strong winds may prevail, the

system should be fixed securely to prevent

Bodily injury could result by a collapse.



Installation by yourself is not encouraged because Application to inferior environment such as an engiit could cause such problems as water leakage, neering shop, could cause equipment malfunction and electrical shock or fire accident by some improper handing

▲ CAUTION

Depending on the place of installation, a circuit breaker may be necessary.



Unless the circuit breaker is installed, it could cause elecrical shocks.

Install on the place where can endure the weight of air conditioner.



Bodily injury could result by a careless installation.

When you need some optional devices such as a humidifier, electric heater, etc., be sure to use the products which are recommended by us. These devices should be attached by a professional installer.



Installation by yourself is not encouraged because it could cause such problems as water leakage, electrical shock or fire accident by some improper handing.

Drain pipe should be arranged to provide a positive draining.





If the pipe is arranged improperly, furniture or the likes may be damaged by leaked water.

Make sure the system is grounded.



Grounding cable should never be connected to a gas pipe, city water pipe, lightning conductor rod or grounding cable of telephone. If the grounding cable is not set properly, it could cause electric shocks.

You should refrain from exposing your body directly to cool wind for a long time.

CAUTIONS FOR OPERATION



It could affect your physical condition or cause some

health problems.

The system should never be used for any other purposes than intended such as for preservation of food, flora and fauna, precision deices or work of art.



It could cause deterioration of food or other problems.

Do not poke the air inlet or outlet with a bar. etc.



Since the internal fan is operating with a high speed, it could cause an injury.

▲ CAUTION





It could cause electric shocks

When any abnormal condition (scorching smell or others) is found, stop the operation immediately and turn off the power switch. Then consult your dealer.



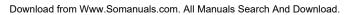


If you continue the operation without removing the cause, it could result in a trouble, electric shock or fire.

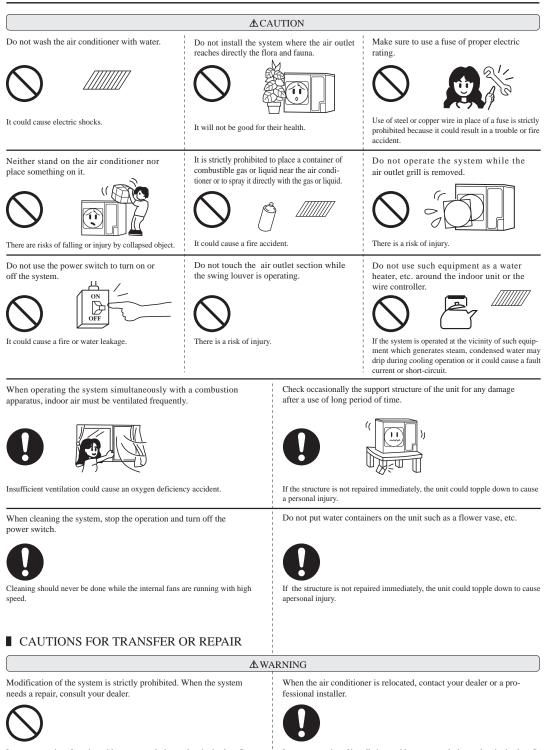
Combustion apparatus should not be placed allowing a direct exposure to wind of air conditioner.



Incomplete combustion could occur on the apparatus.



AWARNING



Improper practice of repair could cause water leakage, electric shock or fire.

Improper practice of installation could cause water leakage, electric shock or fire.

The machine is adaptive in following situation

1. Applicable ambient temperature range:

			Rated	Maximum	Minimum
	Tu da au	DB °C	27	32	18
Cooling	Indoor	WB °C	19	23	14
Cooning	outdoor	DB °C	35	43	10
	outdoor	WB °C	24	26	6
	Indoor	DB °C	20	27	15
Heating	Indoor	WB °C	15		
	outdoor	DB °C	7	24	-7
		WB °C	6	18	

- 2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
- 3. If the fuse on PC board is broken please change it with the type of T 3.15A/250VAC.
- 4. The wiring method should be in line with the local wiring standard.
- 5. The power cable and connecting cable are self-provided. The power cable parameter is:

1) H07RN-F 5G 2.5mm² (380-400V, 3N~, 50Hz),(AD42NAMBEA(ECO) AD36NAMBEA(ECO)AD28NAMBEA(ECO)) ;

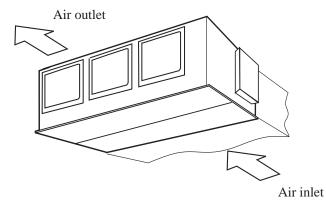
2) H05RN-F 3G 4.0mm² (1PH,220-230V~,50Hz)(AD28NAMBEA(ECO) AD242AMBEA(ECO));

3) H05RN-F 3G 2.5mm² (1PH,220-230V~,50Hz)(AD182AMBEA(ECO)).

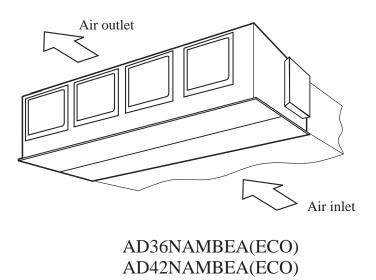
The connecting cable should be H05RN-F 4x0.75mm²

All the cables shall have got the European authentication certificate. During installation, when the connecting cables break off, it must be assured that the grouding wire is the last one to be broken off.

- 6. The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less 3mm.
- 7. The indoor unit installation height is at least 2.5m.
- 8. The air breaker and the power switch should installed the converiently reachable place for user.



AD182AMBEA(ECO) AD242AMBEA(ECO) AD28NAMBEA(ECO)



Malfunction

please check the following things about your air conditioner before making a servie call.

Unit fails to start								
Is the power source switch adjust cut in?	Is city supply power in normal?	Isn't the signal receiving section exposed to the direct sunlight or strong illumination?	Isn't the earth leakage breaker in action? It is dangerous. Turn off the power supply switch immediately and contact the sales dealer.					
	Cooling or heat	ing is not sufficient						
Is the thermostat adjust as required?	Isn't the air filter dirty?	Isn't any doors or windows left open?	Doesn't any obstacle exist at the air inlet or outlet?					
Isn't the swing louver	Cooling is not sufficient							
horizontal? (At HEATING mode) If swing louver is horizontal, the blow wind does not reach floor.	Isn't sun-shine invading direct?	Isn't any unexpected heating load generated?	Isn't the room much crowded?					
The wind does not blow during heating operation Isn't it warming up?								

When the air conditioner does not operate properly after you have checked the above mentioned items or when the following phenomenon is observed, stop the operation of the air conditioner and contact your sales dealer.

- The fuse or breaker often shuts down.
- Water drops off during cooling operation.
- There is a irregularity in operation or abnormal sound is audible.

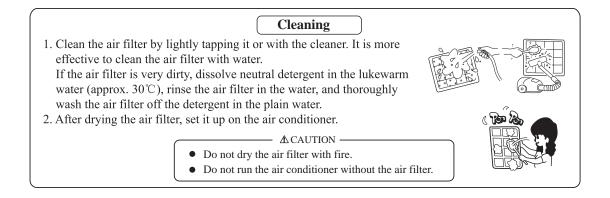
Malfunction

The f	followings	are	not	malfunction

Water flowing sound is heard.	When the air conditioner is started, when the compressor starts or stops during operation or when the air conditioner is stopped, it sometimes sounds "shuru shuru" or "gobo gobo". It is the flowing sound of the refrigerant, and it is not a trouble.
Cracking sound is heard.	This is caused by heat expansion or contraction of plastics.
It smells.	Air which blows out from the indoor unit sometimes smells. The smell results from residents of tobacco smoke or cosmetics stuck inside of unit.
During operation, white fog comes out of indoor unit.	When the air conditioner is used at restaurant etc. where dense edible oil fume is always exists, white fog sometimes blows out of air outlet during operation. In this case consult sales dealer for cleaning the heat exchanger.
It is switched into the FAN mode during cooling.	To prevent frost from being accumulated on the indoor unit heat exchanger, it is sometimes automatically switched to the FAN mode but it will soon return to the cooling mode.
The air conditioner can not be restarted soon after it stops.	Even if the operation switch is turned on, cooling, dehumidifying or heating is not operable for three minutes after the conditioner is stopped. Because the protecting circuit is activated. (During this time air conditioner operates in fan mode.)
Air does not blow or the fan speed can not be changed during dehumidifying	When it is excessively cooled during dehumidifying, the blower automatically repeats reducing and lowering the fan speed.
During operation, operation mode has changed over automatically.	Isn't the AUTO mode selected? In the case of AUTO mode, operation mode is changed automati- cally from cooling to heating or vise-versa according to the room temperature.
Water or steam generates from the outdoor unit during heating.	This results when frost accumulated on the outdoor unit is removed (during defrosting operation).

Points to observe									
Turn off the power supply switch.	Do not use hot water or volatileliquid.								
OF OF		Thinner Do not usel Benzine Tooth powder							

- Do not open the inlet grill until fan stops completely.
- Fan will continue rotating for a while by the law of inertia after operation is being stopped.



Care and Cleaning of the unit

• Clean with soft and dry cloth.

• If it is very dirty, dissolve neutral detergent in the lukewarm water and make the cloth wet with the water. After wiping, clean off the detergent using clean water.

Post-Season Care

- Operate the unit with FAN mode on a fair day for about half a day to dry the inside of the unit well.
- Stop operation and turn off the power supply switch. Electric power is consumed even the air conditioner is in stop.
- Clean the air filter and set it in the place.

Pre-Season Care

See that there are no obstacles blocking the air inlet and air outlet of both indoor and outdoor units.

- Make sure that the air filter is not dirty.
- Cut in the power supply switch 12 hours before starting run.

"HOT KEEP" is operated in the following cases.

• When heating is started:

In order to prevent blowing out of cool wind, the indoor unit fan stopped according to the room temperature which heating operation is started. Wait for approx. 2 to 3 minute, and the operation will be automatically changed to the ordinary heating mode.

• Defrosting operation (in the heating mode): When it is liable to frost. the heating operation is stopped automatically for 5 to 12 minutes once per approx. one hour, and defrosting is operated. After defrosting is completed, operation mode is automatically changed to ordinary heating operation.

• When the room thermostat is actuated: When room temperature increases and room temperature controller actuates, the fan speed is automatically changed to stop under low temperature condition of indoor heat exchanger. When room temperature decreases, air conditioner automatically changes over to ordinary heating operation.

WARMING OPERATION

- Heat pump type warming With the heat pump type warming, the mechanism of heat pump that concentrate heat of outdoor air with the help of refrigerant to warm the indoor space, is utilized.
- Defrosting operation

When a room is warmed with a heat pump type air conditioner, frost accumulates on the heat exchanger of outdoor unit along with the drop of indoor temperature. Since the accumulated frost reduces the effect of warming, it is necessary to automatically switch the operation to the defrosting mode. During the defrosting operation, heating operation is interrupted.

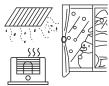
• Atmospheric temperature and warming capacity Warming capacity of heat pump type air conditioner decreases along with the drop of outdoor temperature.

When the warming capacity is not sufficient, it is recommended to use another heating implement.

• Period of warm-up

Since the heat pump type air conditioner employs a method to circulate warm winds to warm the entire space of a room, it takes time before the room temperature rises.

It is recommendable to start the operation a little earlier in a very cold morning.



Confirm the following items for safe and comfortable use of air conditioner. The installation work is to be burden on the sales dealer, and do not conduct it by yourself.

	Installation place	
Avoid installing the air conditioner near the place where possibility of inflammable gas leakage exists.	Install the unit at well ventilated place.	Install the air conditioner firmly on the foundation that can fully support the weight of the unit.
Explosion (Ignition) may occur.	If some obstacle exist, it may cause capacity reduction or noise increase.	If not, it may cause vibration or noise.
Select the place so as not to annoy neighbor with the hot air or noise.	Snow protection work is necessary where outdoor unit is blocked up by snow.	 It is advisable not to install the air conditioner at the following special place. It may cause malfunction, consult the sales dealer when you have to install the unit on such a place. The place where corrosive gas generates (Hot spring area etc.) The place where salt breeze blows (Seaside etc.) The place where dense soot smoke exists The place where humidity is extraordinarily high The place where near the machine which
U	For details consult your sales dealer.	 radiates the electromagnetic wave The place where voltage variation is considerably large

Electric work

The electric work must be burden on the authorized engineer with qualification for electric work and grounding work, and the work must be conducted in accordance with electric equipment technical standard.

- The power source for the unit is to be of exclusive use.
- The unit must be grounded.

When you change your address or the installation place

Special technology is required for removal or reinstallation of air conditioner, consult the sales dealer. Besides, construction expense is charged for removal or reinstallation.

For inspection and maintenance

The capacity of air conditioner will decrease by contamination of inside of unit when it is used for about three years although depending upon the circumstances under which it is used, and so in addition to the usual maintenance service, special inspection/maintenance service is necessary. It is recommended to make a maintenance contract (charged) by consulting your sales dealer.

1. Safety precautions

- Please read these "Safety Precautions" first then accurately execute the installation work.
- Though the precautionary points indicated herein are divided under two headings, <u>A WARNING</u> and <u>A CAUTION</u>, those points which are related to the strong possibility of an installation done in error resulting in death or serious injury are listed in the <u>A WARNING</u> section. However, there is also a possibility of serious consequences in relationship to the points listed in the <u>A CAUTION</u> section as well. In either case, important safety related information is indicated, so by all means, properly observe all that is mentioned.
- After completing the installation, along with confirming that no abnormalities were seen from the operation tests, please explain operating methods as well as maintenance methods to the user (customer) of this equipment, based on the owner's manual.

Moreover, ask the customer to keep this sheet together with the owner's manual.

A WARNING

- This system should be applied to places as office, restaurant, residence and the like. Application to inferior environment such as engineering shop could cause equipment malfunction.
- Please entrust installation to either the company which sold you the equipment or to a professional contractor. Defects from improper installations can be the cause of water leakage, electric shocks and fires.
- Execute the installation accurately, based on following the installation manual. Again, improper installations can result in water leakage, electric shocks and fires.
- When a large air-conditioning system is installed to a small room, it is necessary to have a prior planned countermeasure for the rare case of a refrigerant leakage, to prevent the exceeding of threshold concentration. In regards to preparing this countermeasure, consult with the company from which you perchased the equipment, and make the installation accordingly. In the rare event that a refrigerant leakage and exceeding of threshold concentration does occur, there is the danger of a resultant oxygen deficiency accident.
- For installation, confirm that the installation site can sufficiently support heavy weight. When strength is insufficient, injury can result from a falling of the unit.
- Execute the prescribed installation construction to prepare for earthquakes and the strong winds of typhoons and hurricanes, etc. Improper installations can result in accidents due to a violent falling over of the unit.
- For electrical work, please see that a licensed electrician executes the work while following the safety standards related to electrical equipment, and local regulations as well as the installation instructions, and that only exclusive use circuits are used.

Insufficient power source circuit capacity and defective installation execution can be the cause of electric shocks and fires.

- Accurately connect wiring using the proper cable, and insure that the external force of the cable is not conducted to the terminal connection part, through properly securing it. Improper connection or securing can result in heat generation or fire.
- Take care that wiring does not rise upward, and accurately install the lid/service panel. Its improper installation can also result in heat generation or fire.
- When setting up or moving the location of the air conditioner, do not mix air etc. or anything other than the designated refrigerant (R407C) within the refrigeration cycle.
- Rupture and injury caused by abnormal high pressure can result from such mixing.
- Always use accessory parts and authorized parts for installation construction. Using parts not authorized by this company can result in water leakage, electric shock, fire and refrigerant leakage.

ACAUTION

- Execute proper grounding. Do not connect the ground wire to a gas pipe, water pipe, lightning rod or a telephone ground wire. Improper placement of ground wires can result in electric shock.
- The installation of an earth leakage breaker is necessary depending on the established location of the unit. Not installing an earth leakage breaker may result in electric shock.
- Do not install the unit where there is a concern about leakage of combustible gas.
- The rare event of leaked gas collecting around the unit could result in an outbreak of fire.
- For the drain pipe, follow the installation manual to insure that it allows proper drainage and thermally insulate it to prevent condensation. Inadequate plumbing can result in water leakage and water damage to interior items.

ANOTICE

All Wiring of this installation must comply with NATIONAL, STATE AND LOCAL REGULATIONS. These

instructions do not cover all variations for every kind of installation circumstance. Should further information be desired or should particular problems occur, the matter should be referred to your local distributor.

A WARNING

BE SURE TO READ THESE INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION. FAI-LURE TO FOLLOW THESE INSTRUCTIONS COULD CAUSE SERIOUS INJURY OR DEATH, EQUIPMENT MALFUNCTION AND/OR PROPERTY DAMAGE.

(1) Preparation of indoor unit

Before or during the installation of the unit, assemble necessary optional panel etc. depending on the specific type.

(2) Select places for installation satisfying following conditions and at the same time obtain the consent on the part of your client user.

- (a) Places where chilled or heated air circulates freely.When the installation height exceeds 3m warmed air stays close to the ceiling. In such cases, suggest your client users to install air circulators.
- (b) Places where perfect drainage can be prepared and sufficient drainage.
- (c) Places free from air disturbances to the suction port and blowout hole of the indoor unit, places where the fire alarm may not malfunction or short-circuit.
- (d) Places with the environmental dew-point temperature is lower than 28°C and the relative humidity is less than 80 %.

(When installing at a place under a high humidity environment, pay sufficient attention to the prevention of dewing such as thermal insulation of the unit.)

Installation space

(e) Ceiling height shall have the following height.

AD182AMBEA(ECO) 100 or 100 or AD36NAMBEA(ECO) Model AD242AMBEA(ECO) more AD42NAMBEA(ECO) Ĕ AD28NAMBEA(ECO) 50 or more or 000 Combination with silent 416mm 366mm panel Obstacle Unit: mm

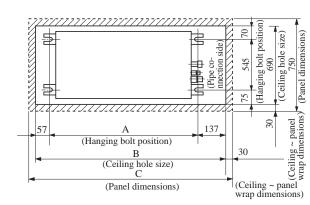
(3) Avoid installation and use at those places listed below.

- (a) Places exposed to oil splashes or steam (e.g. kitchens and machine plants). Installation and use at such places incur deteriorations in the performance or corrosion with the heat exchanger or damage in molded synthetic resin parts.
- (b) Places where corrosive gas (such as sulfurous acid gas) or inflammable gas (thinner, gasoline, etc) in generated or remains. Installation and use at such places cause corrosion in the heat exchanger and damage in molded synthetic resin parts.
- (c) Places adjacent to equipment generating electromagnetic waves or high-frequency waves such as in hospitals.

Generated noise may cause malfunctioning of the controller.

(4) Preparation for suspending the unit

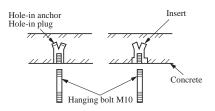
(a) Size of hole at ceiling and position of hanging bolts <Combination with silent panel>



			Unit: mm
Dimensions Model	А	В	С
AD36NAMBEA(ECO) AD42NAMBEA(ECO)	1406	1600	1660
AD182AMBEA(ECO) AD242AMBEA(ECO) AD28NAMBEA(ECO)	986	1180	1240

(b) Hanger bolts installation

• Use care of the piping direction when the unit is installed.



Installation Manual For Indoor Unit

(5) Installation of indoor unit

• Fix the indoor unit to the hanger bolts. If required, it is possible to suspend the unit to the beam, etc. Directly by use of the bolts without using the hanger bolts.

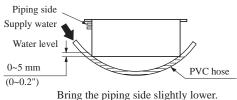
M10 nut M10 washer Main unit M10 spring washer

Note)

When the dimensions of main unit and ceiling holes does not match, it can be adjusted with the slot holes of hanging bracket.

Adjusting to the levelness

- (a) Adjust the out-of levelness using a level or by the following method.
- Make adjustment so that the relation between the lower surface of the unit proper and water level in the hose becomes as given below.



(b) Unless the adjustment to the levelness is made properly, malfunctioning or failure of the float switch may occur.

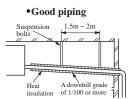
Tap selection on blower unit) (When the high performance filter is used.)

Taps of blower unit are set at the standard selection at the shipping from factory. Where the static pressure is raised by employing such option as the high performance filter, etc., change the connection of connectors provided at the flank of control box as shown below.

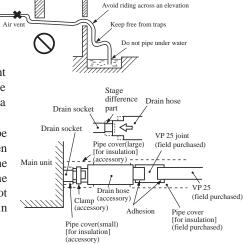
	Standard tap (at shipping)			High speed tap							
side	White	te		White			White	te		Black	
box s	Blue	white		Blue	side		Blue	white		White	side
	Yellow	onnector	White	Yellow			Yellow	onnector	Red	Blue	
ontrol	Red	Conn	M	Red	Moter		Red	Conn		Red	Moter
U				1				<u> </u>		1	

(6) Drain Piping

(a) Drain piping should always be in a downhill grade (1/50~1/100) and avoid riding across an elevation or making traps.



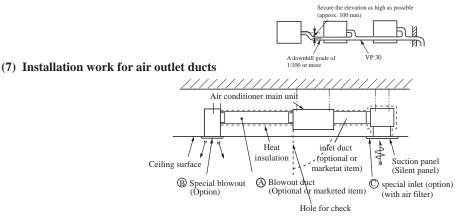
Inproper piping



- (b) When connecting the drain pipe to unit, pay sufficient attention not to apply excess force to the piping on the unit side. Also, fix the piping at a point as close as possible to the unit.
- (c) For drain pipe, use hard PVC general purpose pipe VP-25(I.D.1") which can be purchased locally. When connecting, insert a PVC pipe end securely into the drain socket before tightening securely using the attached drain hose and clamp. Adhesive must not be used connection of the drain socket and drain hose (accessory).

Installation Manual For Indoor Unit

- (d) When constructing drain piping for several units, position the common pipe about 100 mm below the drain outlet of each unit as shown in the sketch. Use VP-30(11/4") or thicker pipe for this purpose.
- (e) Be sure to provide heat insulation to hard PVC pipes of indoor placement.
- (f) Do not ever provide an air vent.
- (g) Avoid positioning the drain piping outlet at a place where generation of odor may be stimulated. Do not lead the drain piping direct into a sewer from where sulfur gas may generate.

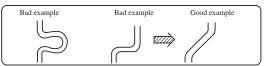


Calculate the draft and external static pressure and select the length, shape and blowout.

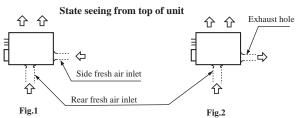
- **A** Blowout duct
 - 2-spot, 3-spot and 4-spot with φ 200 type duct are the standard specifications. Determine the number of spots based on following table.

Note (1) Shield the central blowout hole for 2-spot.

- (2) Shield the blowout hole around the center for 3-spot.
- Limit the difference in length between spots at less than 2:1.
- Reduce the length of duct as much as possible.
- Reduce the number of bends as much as possible. (Corner R should be as larger as possible.)



- Use a band. etc. to connect the main unit and the blowout duct flange.
- Conduct the duct installation work before finishing the ceiling.
- (8) Connection of suction, exhaust ducts



(a) Duct connection position

- i) Fresh air inlet
 - Inlet can be selected from the side or rear faces depending on the working conditions.
 - Use the rear fresh air inlet when the simultaneous intake and exhaust is conducted. (Side inlet cannot be used.)

ii) Exhaust (Make sure to use also the suction.)

Use the side exhaust port.

- 16 -

5. Electric wiring

—— 🛆 WARNING —

DANGER OF BODILY INJURY OR DEATH

TURN OFF ELECTRIC POWER AT CIRCUIT BREAKER OR POWER SOURCE BEFORE MAKING ANY ELECTRIC CONNECTIONS. GROUND CONNECTIONS MUST BE COMPLETED BEFORE MAKING LINE VOLTAGE CONNECTIONS.

(1) Selection of size of power supply and interconnecting wires.

Precautions for Electric wiring

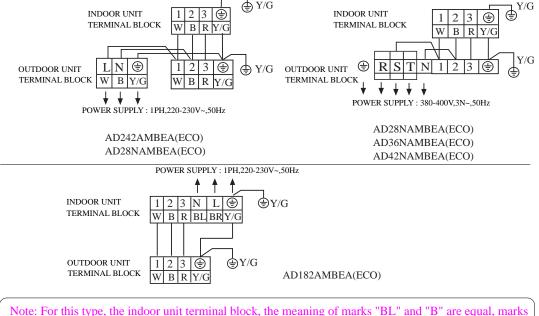
- Electric wiring work should be conducted only by authorized personnel.
- Do not connect more than three wires to the terminal block. Always use round type crimped terminal lugs with insulated grip on the ends of the wires.
- Use copper conductor only.

Select wire sizes and circuit protection from table below. (This table shows 20 m length wires with less than 2% voltage drop.)

Item		Circuit	Power source	
Model	Phase	Switch breaker (A)	Overcurrent protector rated capacity (A)	wire size (minimum)
AD36NAMBEA(ECO) AD42NAMBEA(ECO) AD28NAMBEA(ECO)	3	30	20	2.5mm ²
AD182AMBEA(ECO)				2.5mm ²
AD242AMBEA(ECO) AD28NAMBEA(ECO)	1	40	26	4.0mm ²

(2) Wiring connection

Make wiring to supply power to the outdoor unit, so that the power for the indoor unit is supplied by terminals.



"BR" and "W" are equal.

- 17 -

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