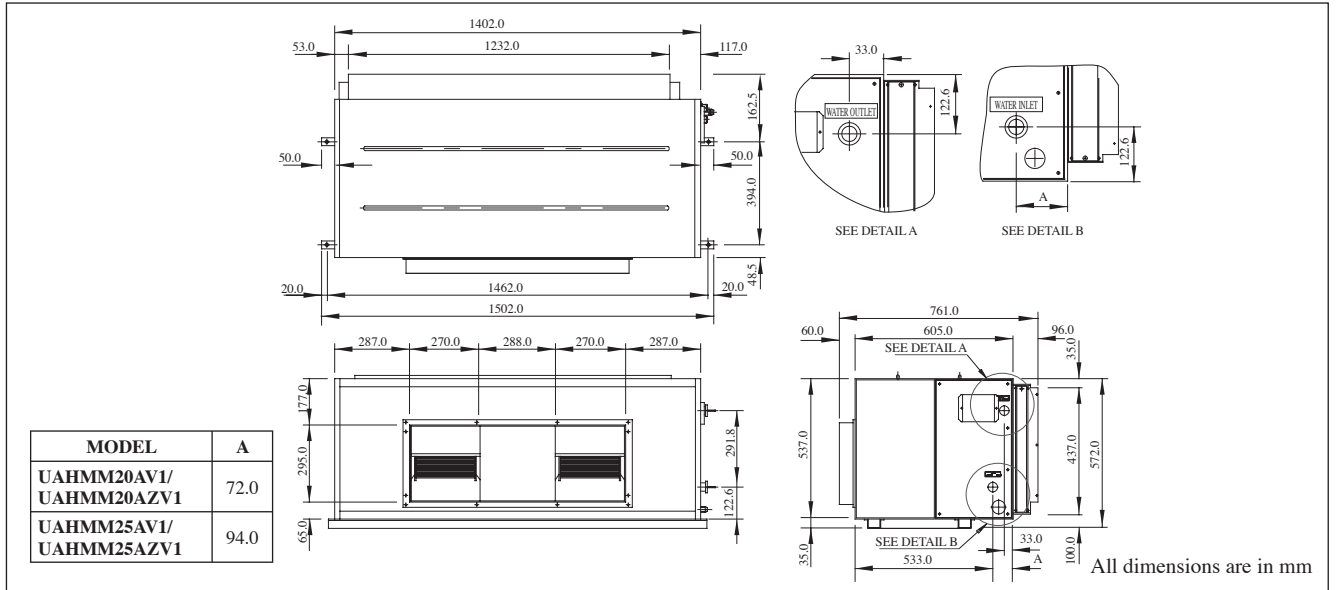


**STATIC BLOWER  
CHILLED WATER FAN COIL UNIT**

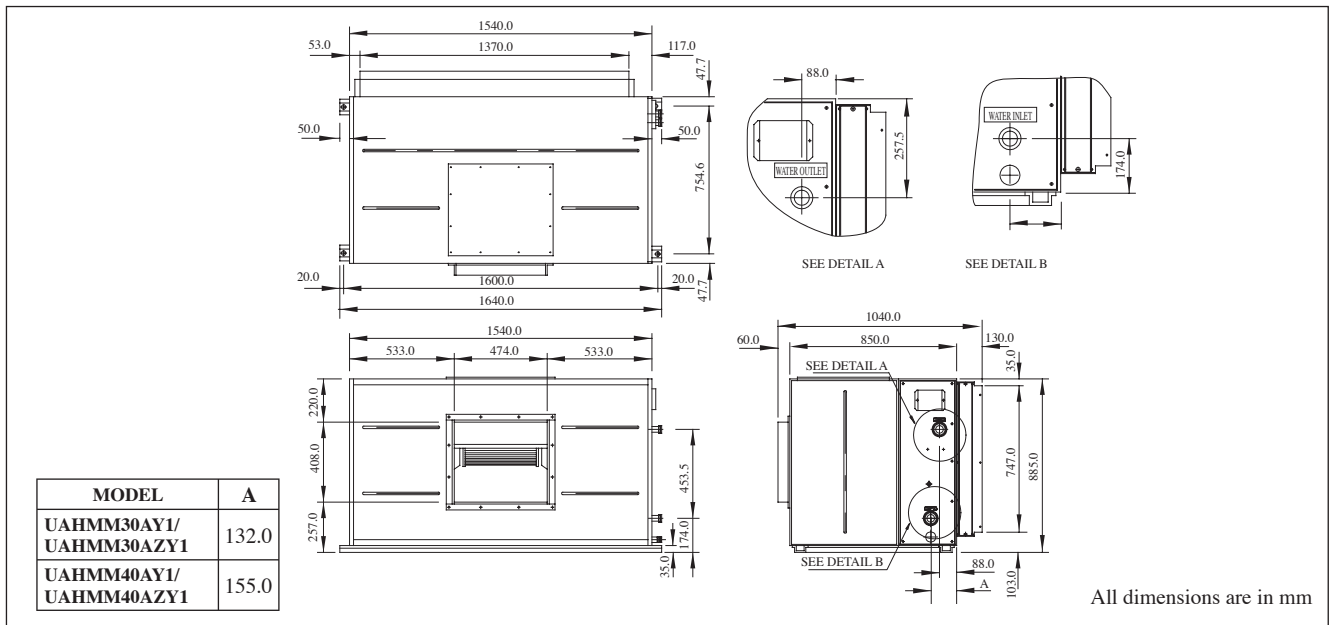


## OUTLINE AND DIMENSIONS

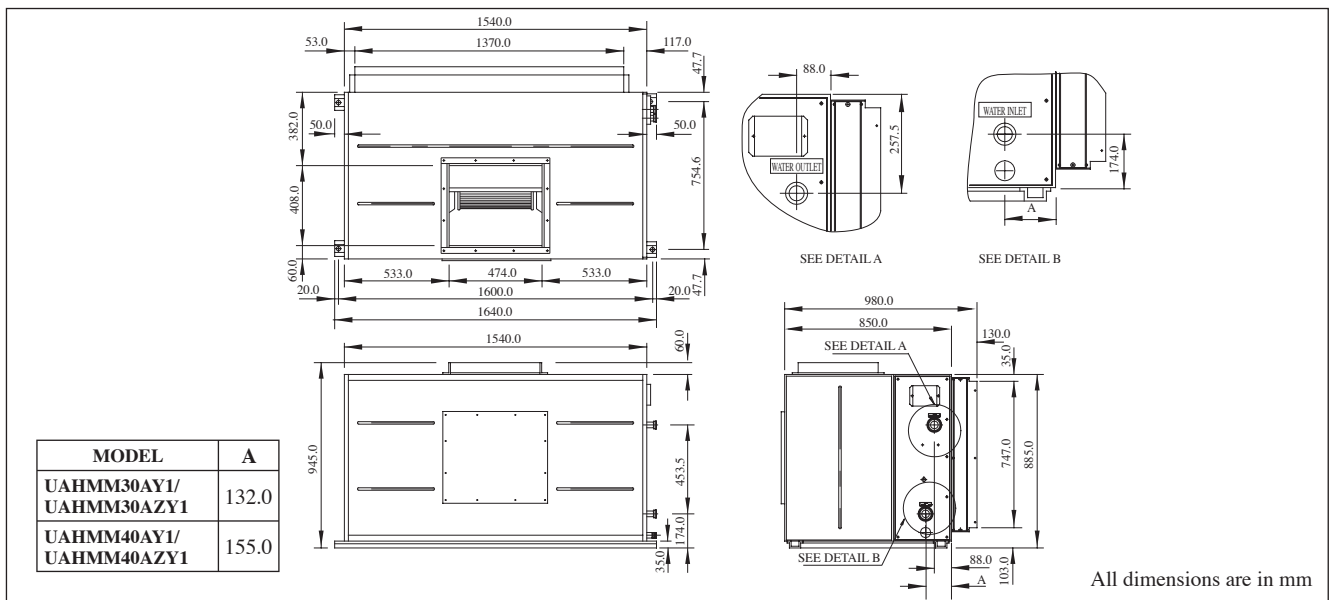
### Indoor Unit : UAHMM20AV1/ UAHMM20AZV1 / UAHMM25AV1/ UAHMM25AZV1



### Indoor Unit : UAHMM30AY1/ UAHMM30AZY1 / UAHMM40AY1/ UAHMM40AZY1 (HORIZONTAL AIR DISCHARGE)



### Indoor Unit : UAHMM30AY1/ UAHMM30AZY1 / UAHMM40AY1/ UAHMM40AZY1 (VERTICAL AIR DISCHARGE)



# INSTALLATION MANUAL

This manual provides the procedures of installation to ensure a safe and good standard of operation for the air conditioner unit.

Special adjustment may be necessary to suit local requirement.

Before using your air conditioner, please read this instruction manual carefully and keep it for future reference.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.



## SAFETY PRECAUTIONS

### **WARNING**

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- All electrical wiring must not touch the water piping or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Risk of electric shock, can cause injury or death. Disconnect all remain electric power supplies before servicing.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in the fire hazards.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static. {Depending on the type and source of the electrical waves, static may be heard even when more than 1m away}.

### **CAUTION**

Please take note of the following important points when installing.

- Ensure that the drainage piping is connected properly.
  -  If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.
- Ensure that the unit's panel is closed after service or installation.
  -  Unsecured panels will cause the unit to operate noisily.
- Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.
- Before turning off the power supply set the remote controller's ON/OFF switch to the "OFF" position to prevent the nuisance tripping of the unit. If this is not done, the unit's fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.
- Do not install the units at or near doorway.
- Do not install the units at area like hot spring or oil refinery plant where sulphide gas exists.
- Do not operate any heating apparatus too close to the air conditioner unit or use in room where mineral oil, oil vapour or oil steam exist, this may cause plastic part to melt or deform as a result of excessive heat or chemical reaction.
- When the unit is used in kitchen, keep flour away from going into suction of the unit.
- This unit is not suitable for factory used where cutting oil mist or iron powder exist or voltage fluctuates greatly.
- Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.
- **IMPORTANT : DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.**
- Don't use joined and twisted wires for incoming power supply.
- The equipment is not intended for use in a potentially explosive atmosphere.

## NOTICE

### Disposal requirement

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

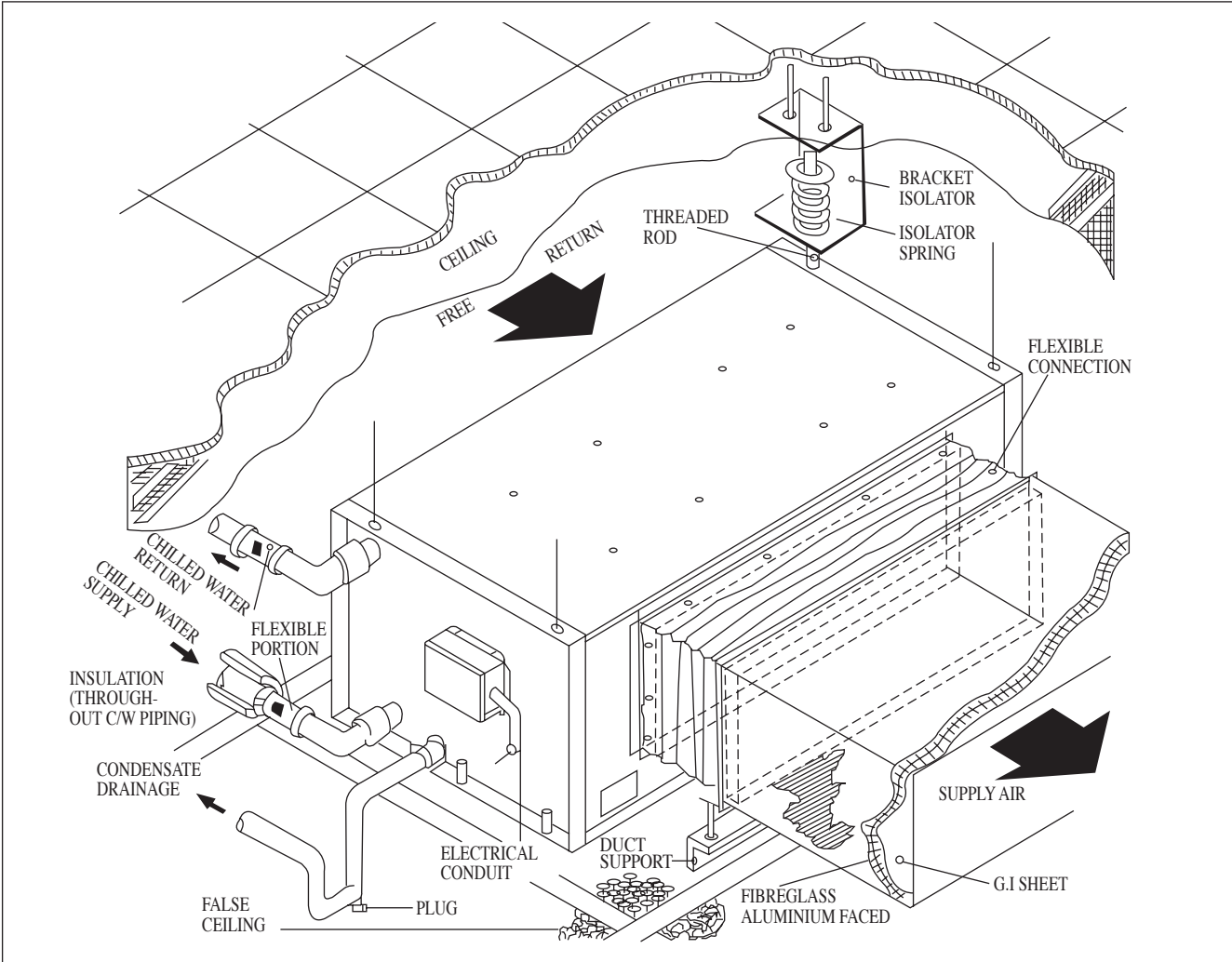
Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation.

Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

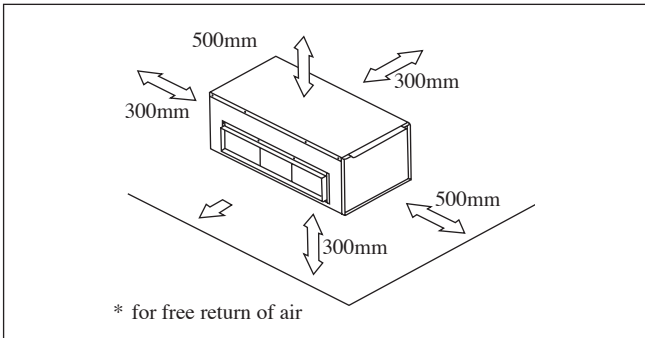
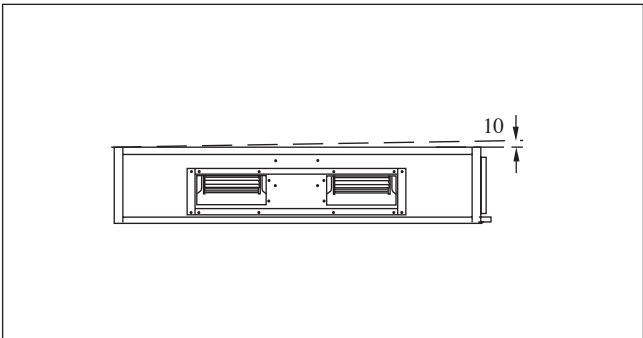


**INSTALLATION OF INDOOR UNIT**

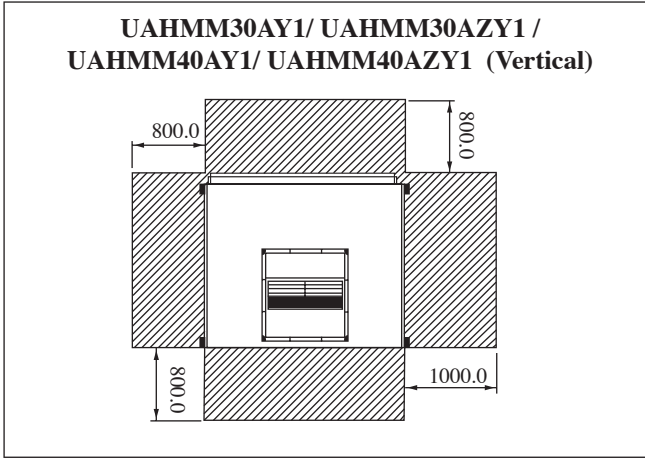
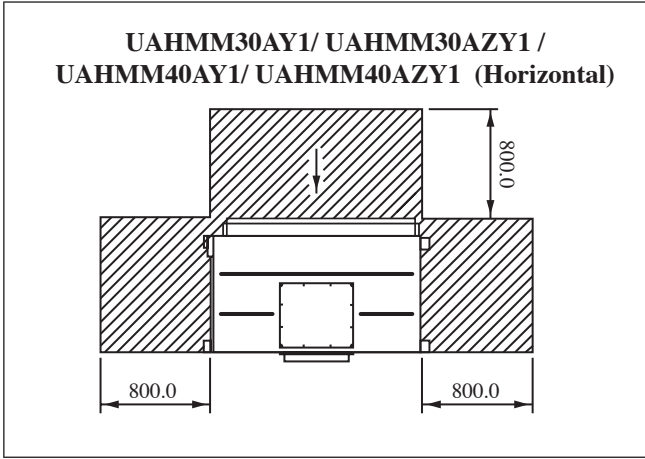


**Mounting**

Ensure that the overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan coil unit is level in the two horizontal directions, taking into account the gradient recommended for drainage flow as shown. Check the gradient recommended for drainage flow as follow.

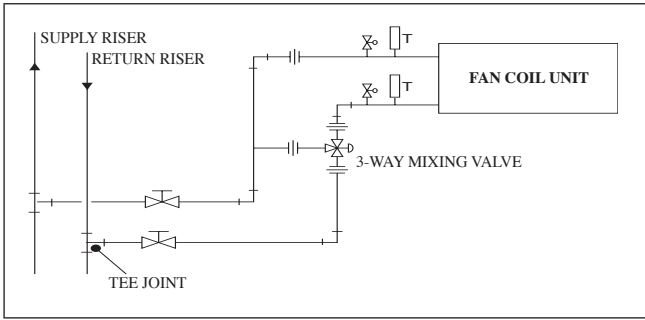
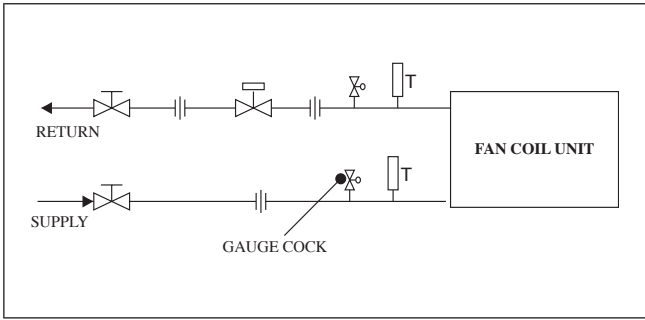


Provide clearance for servicing and optimal air flow as shown in the diagram.  
 The indoor unit must be installed such that there is no short circuit of cool discharge with air discharge.  
 Respect the installation clearance.

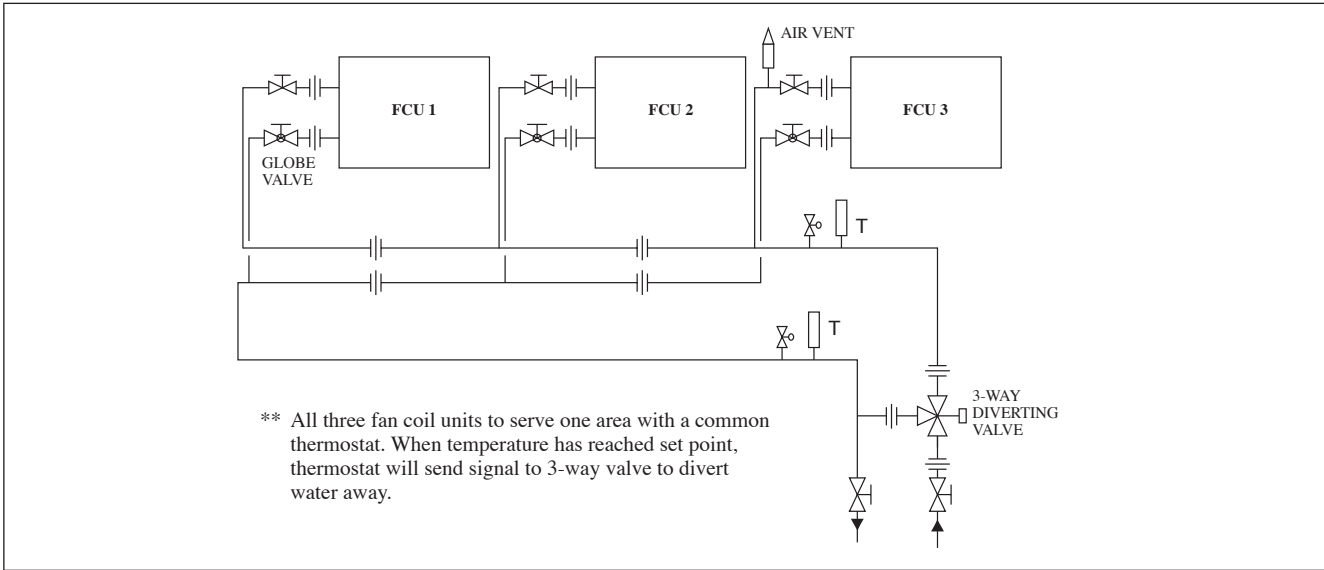


**Horizontal installation**

**Vertical installation**



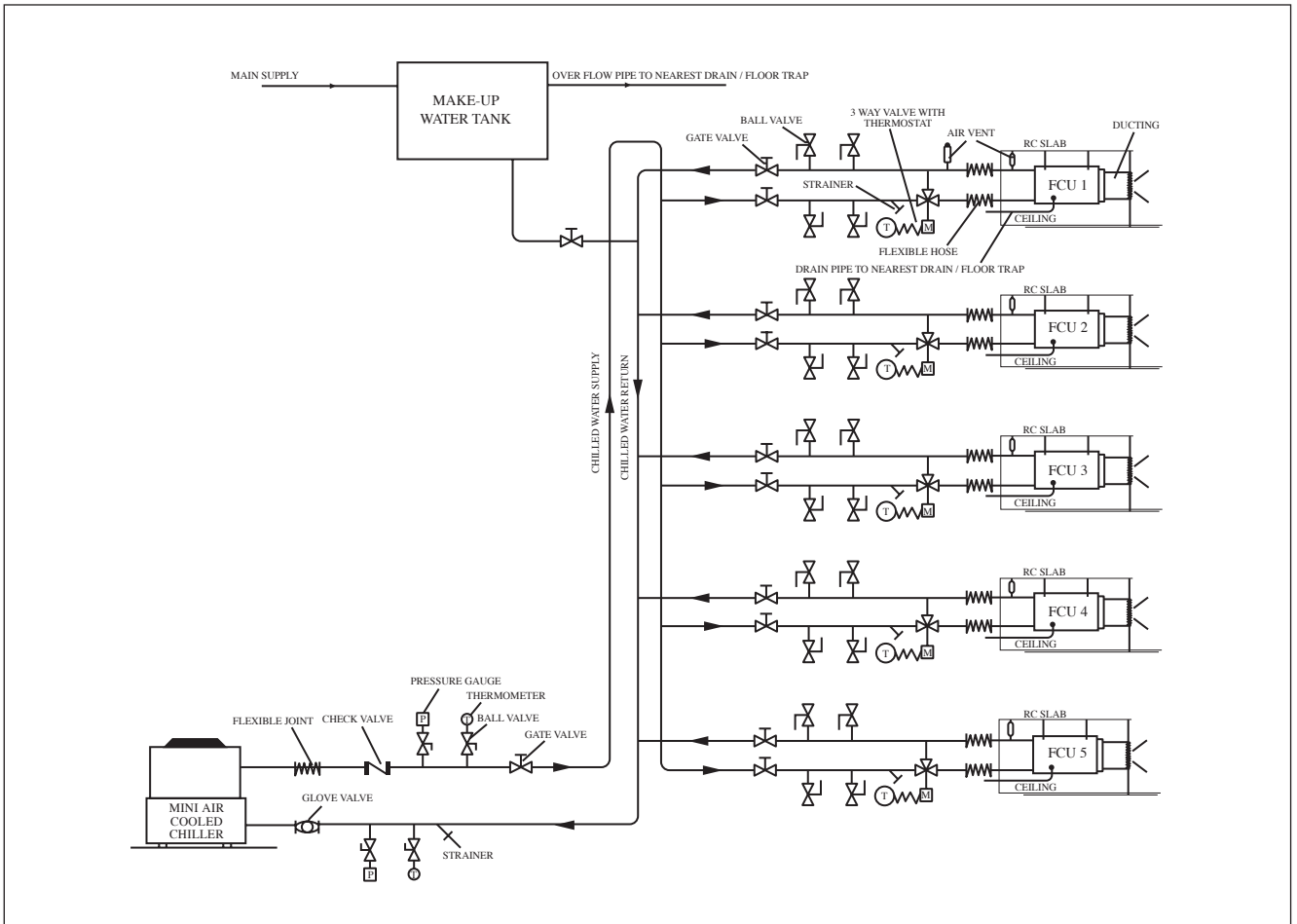
**Multiple fan coil unit installation**



## GUIDELINES FOR VALVE AND FITTING INSTALLATION

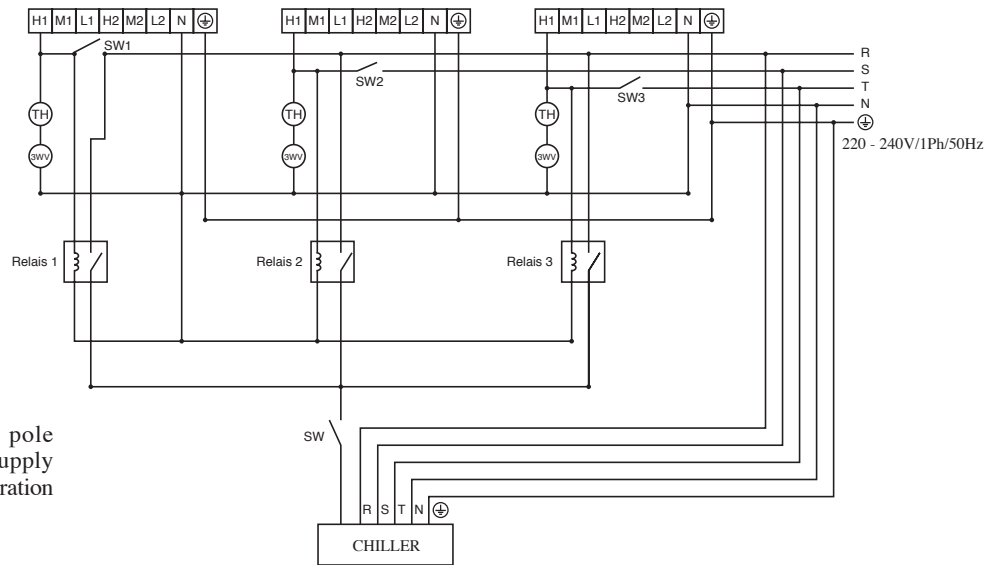
- a. Gate valves (shut-off) are installed in the entering and leaving piping to the chiller and fan coil unit. This is to permit servicing and replacement of the equipment without draining the system. A globe valve may be used to serve as one of the shut-off valve and in addition to balance the rate.
  - b. Valves and fittings using threaded or welded joints will require unions to permit easy removal for servicing or replacement. Unions are usually located between each gate valve and the equipment. Unions are also placed before and after the control valve, and in the branch of the 3-way valve. If flange joints are used, the need for unions is eliminated.
  - c. Locate the control valve in between the gate valve and the equipment to permit removal of the control valve without draining the system.
  - d. Strainers, thermometers and pressure gauges are located between the gate valve and the equipment.
- The following diagrams illustrate examples of piping layout:

### Schematic Diagram For Mini Air Cooled Chiller Installation



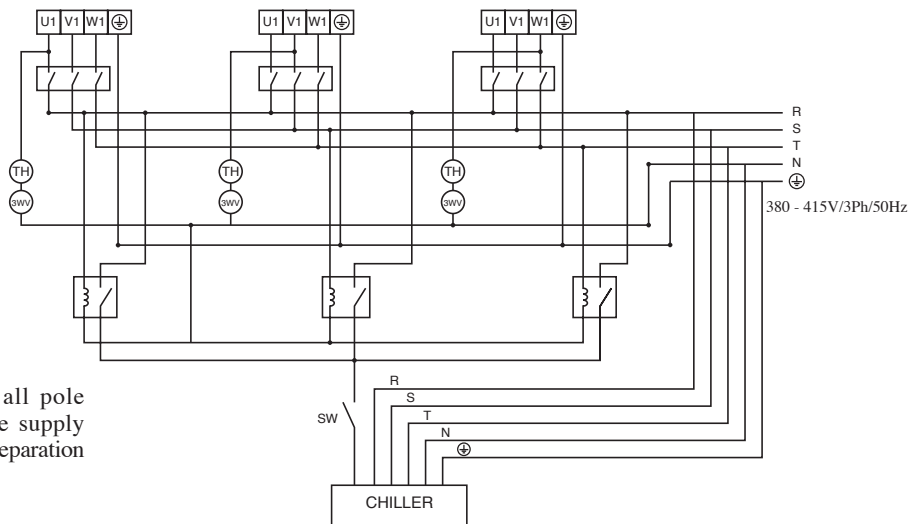
## ELECTRICAL CONNECTION

### UAHMM20AV1/ UAHMM20AZV1/ UAHMM25AV1/ UAHMM25AZV1



⚠ There must be an all pole disconnection in the supply mains with a contact separation of at least 3mm.

### UAHMM30AY1/ UAHMM30AZY1/ UAHMM40AY1/ UAHMM40AZY1



⚠ There must be an all pole disconnection in the supply mains with a contact separation of at least 3mm.

**IMPORTANT :** \* The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also subject to the type of installation and conductors used.

\*\* The appropriate voltage range should be checked with label data on the unit.

Model	UAHMM20AV1/ UAHMM20AZV1 / UAHMM25AV1/ UAHMM25AZV1	UAHMM30AY1/ UAHMM30AZY1 / UAHMM40AY1/ UAHMM40AZY1
<b>Voltage Range**</b>	<b>220V-240V / ~ / 50Hz</b>	<b>380V-415V / 3~ / 50Hz</b>
<b>Recommended Fuse*</b>	(A) 10	10
<b>Power Supply Cable*</b>	(mm <sup>2</sup> ) 1.5	1.5
<b>Number of Conductors</b>	3	4

- All wires must be firmly connected.
- All wires must not touch the water piping, or any moving parts of the fan motor.
- The power supply cord must be equivalent to H05RN-F which is the minimum requirement.



## OPERATING RANGE

### Operating Limits:

Thermal carrier : Water

Water temperature : 4°C ~ 10°C (Cooling), 35°C ~ 70°C (Heating)

Maximum water pressure : 16 bar

Air temperature : (as below)

#### Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

#### Heating Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	15.0 / 59.0	-
Maximum indoor temperature	27.0 / 80.6	-

Ts: Dry bulb temperature.

Th: Wet bulb temperature.

## SERVICE AND MAINTENANCE

Service Parts	Maintenance Procedures	Period
<b>Fan Coil Unit Air Filter</b>	<ol style="list-style-type: none"> <li>1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent.</li> <li>2. Rinse the filter well and dry before placing it back onto the unit.</li> <li>3. Do not use gasoline, volatile substances or chemicals to clean the filter.</li> </ol>	<p>At least once every 2 weeks.</p> <p>More frequently if necessary.</p>
<b>Fan Coil Unit</b>	<ol style="list-style-type: none"> <li>1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution.</li> <li>2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit.</li> </ol>	<p>At least once every 2 weeks.</p> <p>More frequently if necessary.</p>

## TROUBLESHOOTING

**For any enquiries on spare part please contact your authorized dealer. When any malfunction of the air conditioner unit is noted, immediately switch off the power supply to the unit. Check the following fault conditions and causes for some simple troubleshooting tips.**

Fault	Causes / Action
1. The fan coil unit does not operate.	<ul style="list-style-type: none"> <li>– Power failure, or the fuse needs to be replaced.</li> <li>– The power plug is disconnected.</li> <li>– It is possible that your delay timer has been set incorrectly.</li> <li>– If the fault persist after all these verifications, please contact the fan coil unit installer.</li> </ul>
2. The air flow is too low.	<ul style="list-style-type: none"> <li>– The air filter is dirty.</li> <li>– The doors or windows are open.</li> <li>– The air suction and discharge are clogged.</li> <li>– The regulated temperature is not high enough.</li> </ul>
3. The remote control display is dim.	<ul style="list-style-type: none"> <li>– Battery flat.</li> <li>– The batteries are placed incorrectly.</li> </ul>
4. Discharge air flow has bad odor.	<ul style="list-style-type: none"> <li>– Odors may be caused by cigarettes, smoke particles, perfume etc. which might have adhered onto the coil.</li> </ul>
5. Condensation on the front air grille of the fan coil unit.	<ul style="list-style-type: none"> <li>– This is caused by air humidity after an extended long period of operation.</li> <li>– The set temperature is too low, increase the temperature setting and operate the unit at high fan speed.</li> </ul>
6. Water flowing out from the fan coil unit.	<ul style="list-style-type: none"> <li>– Switch off unit and call dealer.</li> </ul>

**If the fault persists, please call your local dealer / serviceman.**



- The manufacturer reserves the right to revise any of the specification and design contain herein at any time without prior notification.
- All images are for illustration purposes only.

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