

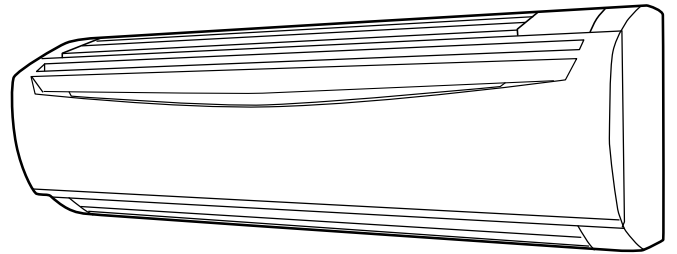


OPERATING MANUAL

INDOOR UNIT (Wall Mounted Type)

Keep this manual for future reference.

ASYA18GATH/ASHA18GATH
ASYA24GATH/ASHA24GATH
ASYA30GATH/ASHA30GATH



Refer to the rating label with the serial number.

MADE IN THAILAND



FUJITSU GENERAL LIMITED

PART NO. 9377772268

OPERATING MANUAL

PART NO. 937772268



VRF system indoor unit (Wall mounted type)

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SAFETY PRECAUTIONS

- Before using the appliance, read these “PRECAUTIONS” thoroughly and operate in the correct way.
- The instructions in this section all relate to safety; be sure to maintain safe operating conditions.
- “WARNING” and “CAUTION” have the following meanings in these instructions:

 WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
 CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

PRECAUTIONS ON USE

WARNING

- Do not keep exposing oneself to the direct wind of air conditioner for a long time.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Except for EMERGENCY, never turn off main as well as sub breaker of the indoor units during operation. It will cause compressor failure as well as water leakage.
First, stop the indoor unit by operating the control unit, converter or external input device and then cut the breaker.
Make sure to operate through the control unit, converter or external input device.
- If the power supply cord of this appliance is damaged, it should only be replaced by the authorized service personal, since special purpose tools and specified cord are required.
- If any refrigerant happens to leak, extinguish any flames, ventilate the room and get in touch with authorized service personnel.

CAUTION

- Provide occasional ventilation during use.
- Do not use in applications involving the storage of foods, precision equipment, or art works.
- Do not place animals or plants in the direct path of the airflow.
- Do not direct airflow at fireplaces or heating apparatus.
- Do not block or cover the inlet port and outlet port.
- Do not climb on, or place objects on, the air conditioner.
- Do not set flower vases or water containers on top of air conditioners.
- Do not hang objects from the indoor unit.
- Do not place anything below the indoor unit that should not get wet.
- Always turn off the electrical breaker whenever cleaning the air conditioner or the air filter.
- Do not pour water or cleaning solvent on the unit directly, or wash the unit with them.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Check the condition of the installation stand for damage.
- Operate only with air filters installed.

- Do not drink the water drained from the air conditioner.
- Do not apply any heavy pressure to radiator fins.
- Do not use inflammable gases near the air conditioner.
- Do not touch the piping during operation.
- Ensure that any electronic equipment is at least 1 m away from either the indoor or outdoor units.
- 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.

Note:

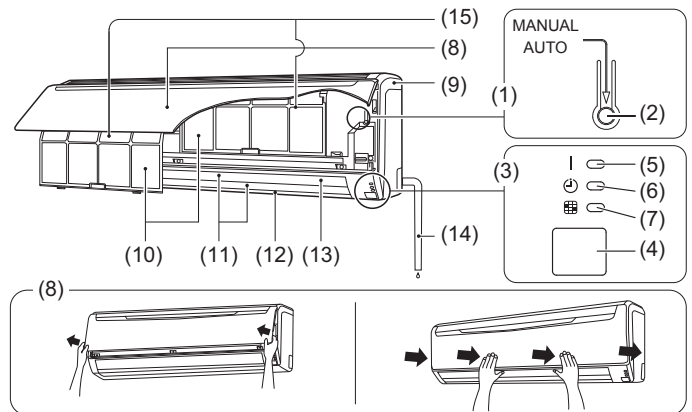
Switching the operating mode in the heat recovery system may require some time to prepare for operation. Please note that this is not a fault.

PRECAUTIONS ON INSTALLATION

CAUTION

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- The unit must be grounded.
- Make sure drain work is implemented properly for drainage.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor units, take precautions to prevent access by infants.

NAME OF PARTS



- (1) Operating Control Panel
- (2) MANUAL AUTO button: This is used to operate it while remote controller is not available.
- (3) Indicator Lamps
- (4) Remote Control Signal Receiver: This is the place to receive the signals from the remote controller.
- (5) OPERATION Indicator Lamp (green) It lights on while operating.
- (6) TIMER Indicator Lamp (orange) It lights on while timer is working.
- (7) FILTER Indicator Lamp (red) It lights on if the filter became dirty. Clean the filter referring to “CLEANING AND CARE”. It lights off when FILTER RESET button of Remote Controller is pressed after cleaning.
- (8) Intake Grille
- (9) Front Panel
- (10) Air Filter
- (11) UP/DOWN Airflow Direction Louvers
- (12) Moving Diffuser
- (13) Right-Left louver (behind Airflow Direction Louver)
- (14) Drain Hose
- (15) Air Cleaning Filter

Control unit (optional)

Types of remote controllers:

- Wireless remote controller
- Wired remote controller
- Simple remote controller

For operation method, please refer to the Operating Manual of each device.

MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the remote control unit is lost or otherwise unavailable.

CAUTION

Do not press the MANUAL AUTO button with wet hands or pointed objects, otherwise an electric shock or malfunction may occur.

Starting Operation

Press the MANUAL AUTO button on the operating control panel.

The operation can be set in the following setting.

Operating mode	AUTO: When Auto mode cannot be selected, it will operate in the same mode as the other indoor unit in the same system. (When other indoor unit in the same system doesn't operate, the air conditioner will operate in cooling.)
Fan speed	AUTO
Setting temperature	23 °C

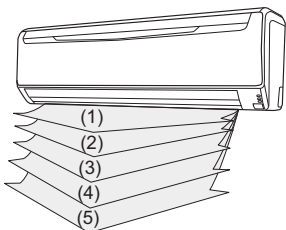
Stopping Operation

Press the MANUAL AUTO button on the operating control panel.

ADJUSTING THE DIRECTION OF AIR CIRCULATION

The vertical wind direction can be controlled with the control unit. The horizontal wind direction can also be controlled in the same manner.

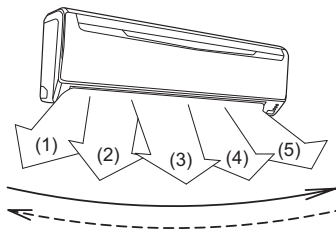
Vertical direction



Cooling & Dry: (1), [(2)], (3), (4), (5)
Heating: (1), [(2)], (3), (4), (5)

[] : Can only be set with the wireless remote controller

Horizontal direction



Cooling & Dry : (1), (2), (3), (4), (5)
Heating : (1), (2), (3), (4), (5)

OPERATING TIPS

Operation and Performance

About priority state and standby state

- Multiple indoor units can be connected within the same system. Depending on the system, choice of operating mode are limited.

Cooling priority state:

When the other indoor units within the same system operate in cooling or dry mode, heating can not be selected at the same time.

Heating priority state:

When the other indoor units within the same system operate in heating mode, cooling and dry mode can not be selected at the same time.

Standby state:

The standby state activates when two or more indoor units start up at the same time in different mode. Any indoor unit other than priority mode will wait in standby state until priority mode changes (operation starts as soon as priority is switched).

At this time, the operation indicator lamp (green) lights up and the timer indicator lamp (orange) flashes.

Low ambient cooling

- When the outdoor temperature drops, the outdoor unit's fans may switch to Low Speed, or one of the fans may stop intermittently.

Heating performance

- Heating mode operates on the heat-pump principle, absorbing heat from outdoor air and transferring that heat indoors. As a result, the operating performance is reduced as outdoor air temperature drops. If you feel that insufficient heating performance is being produced, we recommend you use this air conditioner in conjunction with another type of heating appliance.
- Heating mode heat your entire room by recirculating air throughout the room, with the result that some time may be required after first starting the air conditioner until the room is heated.

Microcomputer-controlled automatic defrosting

- When using the Heating mode under conditions of low outdoor air temperature high humidity, frost may form on the outdoor unit, resulting in reduced operating performance. In order to prevent this kind of reduced performance, this unit is equipped with a Microcomputer-controlled automatic defrosting function. If frost forms, the air conditioner will temporarily stop, and the defrosting circuit will operate briefly (for about 4 to 15 minutes). During Automatic Defrosting operation, the OPERATION indicator lamp (green) will flash.

Oil recovery operation

- Periodically, the oil recovery operation is performed in order to return compressor oil to the outdoor unit. During oil recovery operation, the OPERATION indicator lamp (green) will flash (for about 10 minutes).

Temperature and humidity range

- The temperature and humidity required for operating this product is as shown in the following table.

	Cooling/Dry Mode	Heating Mode
Outdoor temperature	Please refer to the specification of outdoor units.	
Indoor temperature	18 to 32 °C DB	10 to 30 °C DB
Indoor humidity	About 80% or less	

- If the air conditioner is operated under higher temperature conditions than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling and Dry modes, if the unit is used under conditions of lower temperature than those listed above, the heat-exchanger may freeze, leading to water leakage and other damage.
- If the unit is used for long periods under high-humidity conditions, condensation may form on the surface of the indoor unit, and drip onto the floor or other objects underneath.
- Do not use this unit for any purposes other than the Cooling, Heating, Dehumidifying, and air-circulation of rooms in ordinary dwellings.

CLEANING AND CARE

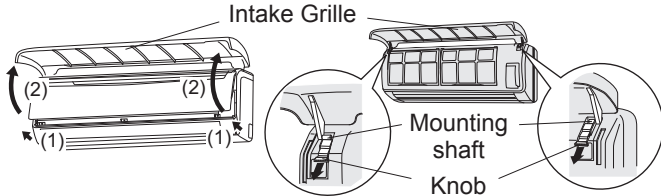
CAUTION

- Before cleaning the unit, be sure to stop the unit and disconnect the power supply.
- Be sure the Intake Grille is installed securely.
- When removing and replacing the air filters, be sure not to touch the heat exchanger, as personal injury may result.
- Do not clean the inside of the unit by yourself. To clean the inside, always consult authorized service personnel.
- When cleaning the unit' body, do not use water hotter than 40 °C, harsh abrasive cleansers, or volatile agents like benzene or thinner.
- Do not expose the unit body to liquid insecticides or hair sprays.

Cleaning the Intake Grille

1. Remove the Intake Grille.

- (1) Place your fingers at both lower ends of the grille panel, and lift forward; if the grille seems to catch partway through its movement, continue lifting upward to remove.
- (2) Pull past the intermediate catch and open the Intake Grille wide so that it become horizontal..

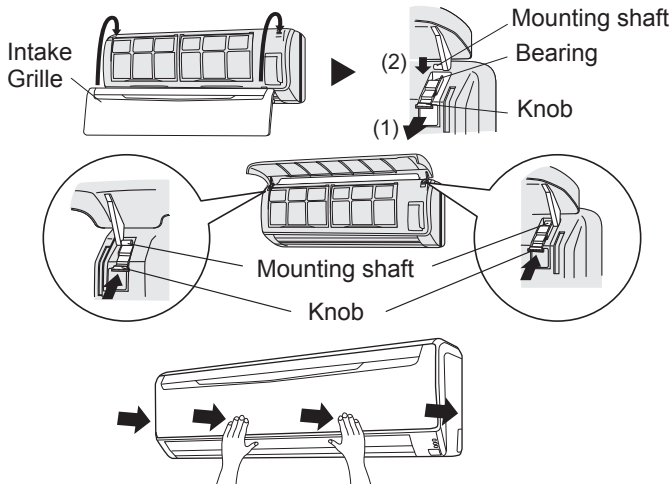


2. Clean with water.

Remove dust with a vacuum cleaner; wipe the unit with warm water, then dry with a clean, soft cloth.

3. Replace the Intake Grille.

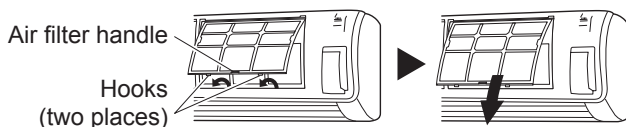
- (1) Pull the knobs all the way.
- (2) Hold the grille horizontal and set the left and right mounting shafts into the bearings at the top of the panel.
- (3) Press the place where the arrow on the diagram indicates and close the Intake Grille.



Cleaning the Air Filter

1. Open the Intake Grille, and remove the air filter.

Lift up the air filter's handle, disconnect the two lower tabs, and pull out.

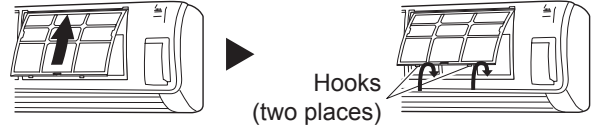


2. Remove dust with a vacuum cleaner or by washing.

After washing, allow to dry thoroughly in a shaded place.

3. Replace the Air Filter and close the Intake Grille.

- (1) Align the sides of the air filter with the panel, and push in fully, making sure the two lower tabs are returned properly to their holes in the panel.



- (2) Close the Intake Grille.

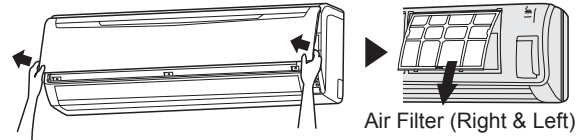
(For purposes of example, the illustration shows the unit without Intake Grille installed.)

- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before reinstalling.
- If dirt is allowed to accumulate on the air filter, airflow will be reduced, lowering operating efficiency and increasing noise.
- During periods of normal use, the Air Filters should be cleaned every two weeks.

- When used for extended periods, the unit may accumulate dirt inside, reducing its performance. We recommend that the unit be inspected regularly, in addition to your own cleaning and care. For more information, consult authorized service personnel.
- When shutting down the unit for one month or more, first allow the fan mode to operate continuously for about one-half day to allow internal parts to dry thoroughly.

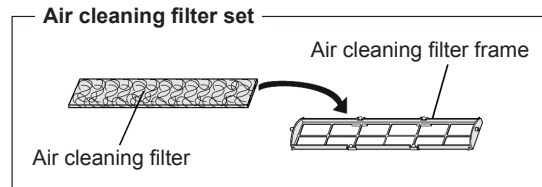
Air Cleaning Filter Installation

1. Open the Intake Grille and remove the Air filters.

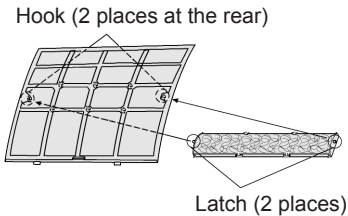


2. Install the Air cleaning filter set (set of 2).

- (1) Set the air cleaning filter into the air cleaning filter frame.

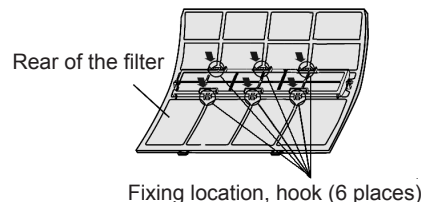


- (2) Engage the latch at both ends of the filter with the two hooks at the rear of the air cleaning filter frame.

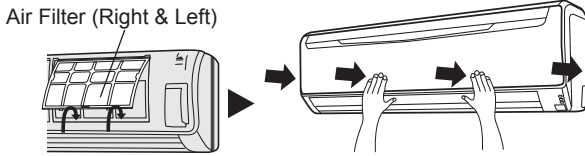


Take care that the air cleaning filter does not project beyond the frame.

- (3) Engage the four fixing locations at the top and bottom of the air cleaning filter frame with the hooks of the air filter.



3. Install the two Air filters and close the Intake Grille.



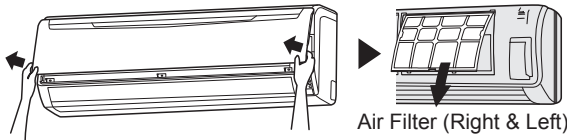
- When air cleaning filters are used, the effect will be increased by setting the fan speed to "High".

Replacing dirty Air cleaning filters

Replace filters with the following components (purchased separately).

- POLYPHENOL CATECHIN AIR CLEANING FILTER : UTR-FA13-1
- Negative air ions deodorizing filter: UTR-FA13-2

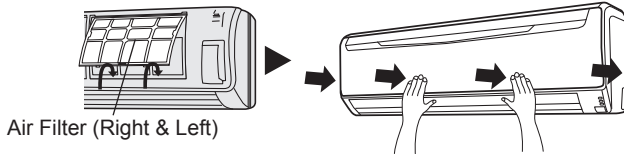
1. Open the Intake Grille and remove the Air filters.



2. Replace them by two new Air cleaning filters.

- (1) Remove the old air cleaning filters in reverse order of their installation.
- (2) Install in the same way as for installation of the air cleaning filter set.

3. Install the two Air filters and close the Intake Grille.



In regard to the Air Cleaning Filters

POLYPHENOL CATECHIN AIR CLEANING FILTER (one sheet)

- The Air Cleaning Filters are disposable filters. (They can not be washed and reused.)
- For storage of the Air Cleaning Filters, use the filters as soon as possible after the package has been opened. (The air cleaning effect decreases when the filters are left in the opened package)
- Generally, the filters should be exchanged about every three months.

Please buy delicate air cleaning filters (UTR-FA13-1) (Sold separately) to exchange the used dirty air cleaning filters.

[Negative air ions deodorizing filter (one sheet) — light blue]

- The filters should be exchanged about every three years so as to maintain the deodorizing effect.
- Filter frame is not a one-off product.

Please buy delicate deodorizing filter (UTR-FA13-2) (Sold separately) when exchanging the filters.

Maintenance of Deodorizing Filters

In order to maintain the deodorizing effect, please clean the filter in the following way once three months.

- (1) Remove the deodorizing filter.
- (2) Clean with water and dry in the air.
 - 1) Flush the filters with high-pressure hot water until the surface of the filters are covered with water. Please flush with diluent neutral detergent. (Never wash by reaming or rubbing, otherwise it will damage the deodorizing effect.)
 - 2) Rinse with water flow.
 - 3) Dry in shade.
- (3) Reinstall the deodorizing filter.

TROUBLESHOOTING

The following conditions are not breakdowns or operation failures.

Doesn't operate immediately:

- If the unit is stopped and then immediately started again, the compressor will not operate for about 3 minutes, in order to prevent fuse blowouts.
- Whenever the electrical breaker is turned off then on again, the protection circuit will operate for about 3 minutes, preventing unit operation during that period.

Airflow is weak or stops:

- When Heating operation is started, indoor unit's fan may temporarily stop, to allow internal parts to warm up.
- During Heating operation, if the room temperature rises above the thermostat setting, the outdoor unit will stop, and the indoor unit's fan will stop. If you wish to warm the room further, set the thermostat for a higher setting.
- During oil recovery operation, the airflow may stop for approximately 10 minutes. (See page 2)
- During Heating operation, the unit will temporarily stop operation (between 4 and 15 minutes) as the Automatic Defrosting mode operates. (See page 2)
- The fan may operate at low speed during Dry operation or when the unit is monitoring the room's temperature.
- In the monitor AUTO operation, the fan will operate at low speed.

Flashing lamps:

- The OPERATION indicator lamp (green) flashes:
An oil recovery operation is being performed. (See page 2)
- The OPERATION indicator lamp (green) flashes:
An automatic defrosting operation is being performed. (See page 2)
- The OPERATION indicator lamp (green) and TIMER indicator lamp (orange) are flashing alternately:
It has recovered from a power outage.
- The OPERATION indicator lamp (green) and TIMER indicator lamp (orange) are flashing simultaneously:
It is operating in trial operation mode. Ask a manager as there may be maintenance being conducted.
- The OPERATION indicator lamp (green) lights up and the TIMER indicator lamp (orange) flashes:
This is the standby state. (See page 2)

Noise is heard:

- In the following conditions there are sounds of water flowing from the indoor unit and the operation sound becomes loud. These are the sounds of the flowing of refrigerant.
 - When operation starts
 - When oil recovery operation finishes
 - When automatic defrosting operation finishes
- During operation, a slight squeaking sound may be heard. This is the result of minute expansion and contraction of the panel due to temperature changes.
- During Heating operation, a sizzling sound may be heard occasionally. This sound is produced by the Automatic Defrosting operation. (See page 2)

Smells:

- Some smell may be emitted from the indoor unit. This smell is the result of room smells (furniture, tobacco, etc.) which have been taken into the air conditioner.

Fog comes out of the indoor unit:

- During Cooling operation, a thin mist may be seen emitted from the indoor unit. This results from the sudden Cooling of room air by the air emitted from the air conditioner, resulting in condensation and misting.

Steam comes out of the indoor unit:

- During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to the Automatic Defrosting operation. (See page 2)

Water is produced from the outdoor unit:

- During Heating operation, water may be produced from the outdoor unit due to the Automatic Defrosting operation.

The following conditions may not be breakdowns so check again.

Doesn't operate at all:

- Has there been a power failure?
- Has a fuse blown out, or a circuit breaker been tripped?
- Is the main power switch set to the OFF position?
- Are you trying to engage in an operation different from the priority state? (See page 2)
- Is it in standby state? (See page 2)

The operation mode cannot be changed:

- Are you trying to change to an operation different from the priority conditions? (See page 2)

Poor Cooling (or Heating) performance:

- Did you adjust the room temperature settings (thermostat) correctly?
- Is the air filter dirty? (See page 3)
- Are the air conditioner's inlet port or outlet port blocked?
- Is there a window or door open?
- In the case of Cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.)
- In the case of Cooling operation, are there heating apparatus and computers inside the room, or are there too many people in the room?
- Is the fan speed set to low?

Set the temperature lower than the room temperature and use it:

- Temperature does not fall down well. Temperature may not fall down depending on the room conditions. (While high humidity or the room temperature is high.) (See page 2)

In the following situations stop operation immediately and get in touch with authorized service personnel.

- The problem cannot be solved even when the troubleshooting checks have been performed.
- The FILTER indicator lamp (red) is flashing very fast.
- The wired remote controller or simple remote controller indicate Er (when connected).
- It has burning smell.

SPECIFICATIONS

MODEL		AS□A18GATH	AS□A24GATH	AS□A30GATH
POWER SOURCE		230 V~50/60 Hz		
AVAILABLE VOLT-AGE RANGE		198 to 264 V (50Hz) 198 to 253 V (60Hz)		
COOLING CAPACITY	[kW]	5.6	7.1	8.0
	[Btu/h]	19,100	24,200	27,300
HEATING CAPACITY	[kW]	6.3	8.0	9.0
	[Btu/h]	21,500	27,300	30,700
INPUT POWER	[W]	32	60	91
CURRENT	[A]	0.33	0.52	0.69
SOUND PRESSURE LEVEL				
HIGH	dB [A]	41	48	52
MED	dB [A]	39	43	45
LOW	dB [A]	35	35	35
DIMENSIONS & WEIGHT				
HEIGHT	[mm]	320		
WIDTH	[mm]	998		
DEPTH	[mm]	228		
WEIGHT	[kg]	15		

Acoustic Noise Information :

The maximum sound pressure level is less than 70 dB (A) for both indoor unit and outdoor unit. According to IEC 704-1 and ISO 3744.

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