

HOLIDAY II

Installation Manual

www.viesa.ca / 1-888 438-8444

IMPORTANT

Installation requires an experienced mechanic with specific knowledge in the installation of the VIESA Ecological Cooler. Installation, disassembly, repairs and maintenance must be performed by an Authorized Installer. Authorized Installer must use proper protective equipment when installing the system.

Improper installation or use of unauthorized parts can cause malfunctions, loss of battery life or other consequences which may result in serious injury.

Manufacturer or Distributor will not be responsible for injuries or damages resulting from misuse of equipment, use contrary to operating instructions or installation by any person other than an Authorized Installer.

Information contained in this manual is subject to change. Manufacturer reserves the right, without notice, to make changes in equipment design or components as progress in engineering, manufacturing or technology may warrant.

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1- ECOLOGICAL COOLER

Function

To lower the inside temperature of the caravan's cabin using evaporative cooling.

Operation

The unit is equipped with an electrovalve that is activated by two sensors located at the front and back of the unit. The electrovalve allows passage of water from pressurized pipes to the unit where a tank tray stores it. A centrifugal pump carries the water from the tank tray to a distributor coil that constantly and homogeneously moistens the evaporator contained in the unit. A biturbo blower pushes the exterior air to the interior of the caravan forcing the air through the evaporator and therefore cooling the warm air.

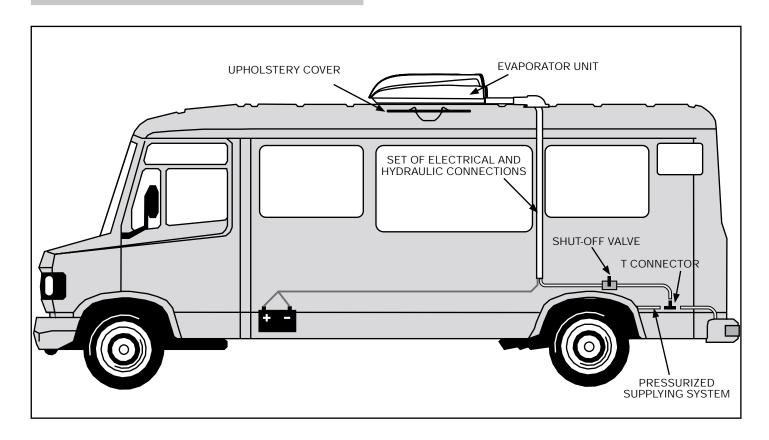
Application

Applied to caravans which have an operating voltage of 12 V and a roof with an inclination angle of less than 15° backward or forward.





1.1- LOCATION OF PARTS AND COMPONENTS



1.2- TECHNICAL CHARACTERISTICS

Evaporator automatic drying system.

Evaporator replacement indicator.

Voltage sensing in battery terminals.

Full remote control.

LCD digital board with command for each function.

Clock.

Auto switch on.

Auto switch off.

Aerodynamic external design

Evaporator unit cover with UV protection

Extensible upholstery cover.

Designed and manufactured according to EMC (electromagnetic compatibility norm).

Distribution air ducts with airtight closure.

Turbo blower with sealed motor mounted on bearings

25- speed turbo blower

Water level sensor

Low water lever pump disconnection and alarm

Protection system for short-circuit in the pump and its connections

Automatic system disconnection under low voltage battery



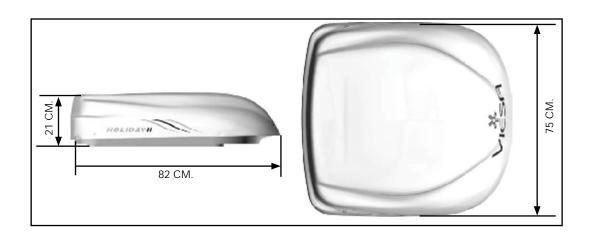
Protection for high voltage
Fused main feed cable
Protection for polarity reversal
8 A per hour average consumption with turbine at maximum speed
2 to 5 litre average consumption of water per hour, depending on ambient humidity

2- MAIN COMPONENTS

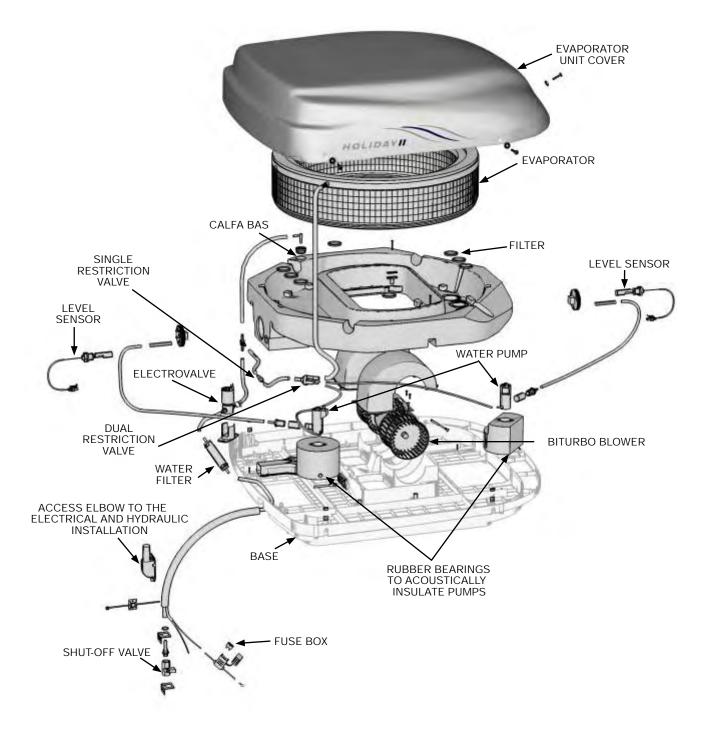
The equipment consists of an evaporating unit, electrical and hydraulic connections and an upholstery-cover.

Important: Vehicle with equipment installed must not exceed maximum allowed height

2.1- EVAPORATOR UNIT







2.1.1- COVER OF THE EVAPORATOR UNIT





2.1.2- EVAPORATOR

Composed of two even distributed layers of special wood shavings.



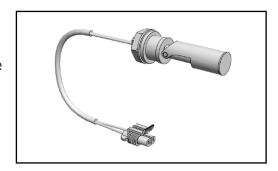
2.1.3- EVAPORATOR TRAY TANK

This element works as a water deposit and it collects the excess water that the evaporator receives. It contains two level sensors, one at the front and the other at the back of the unit.



2.1.4- LEVEL SENSORS

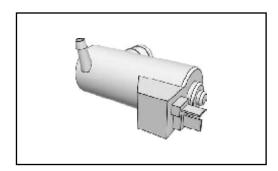
Their function is to monitor permanently the presence of water in the tank tray, activating the water pump when the level is low.



2.1.5- WATER PUMP

Centrifugal pump used to carry water to the evaporator. Placed inside the evaporator unit and covered by a rubber bearing that provides acoustic insulation.

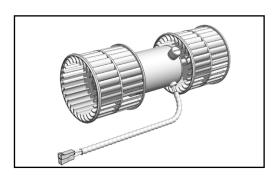
Maximum consumption is 3.1A.



2.1.6- BITURBO BLOWER

It has two turbines which absorbs the air that comes from outside forcing it to the caravan's interior.

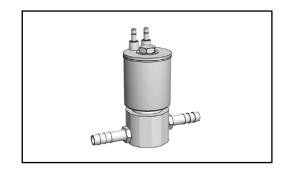
Maximum consumption is 7,5 A.





2.1.7- ELECTROVALVE

Allows the passage of water from the pressurized network of the caravan to the tank tray and water pumps. Standard closed type. Maximum consumption is 1.0 A.



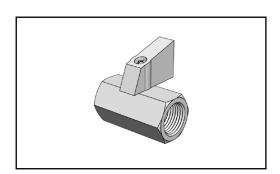
2.1.8- ACCESS ELBOW TO THE ELECTRICAL AND HYDRAULIC

INSTALLATION



2.1.9- SHUT-OFF VALVE

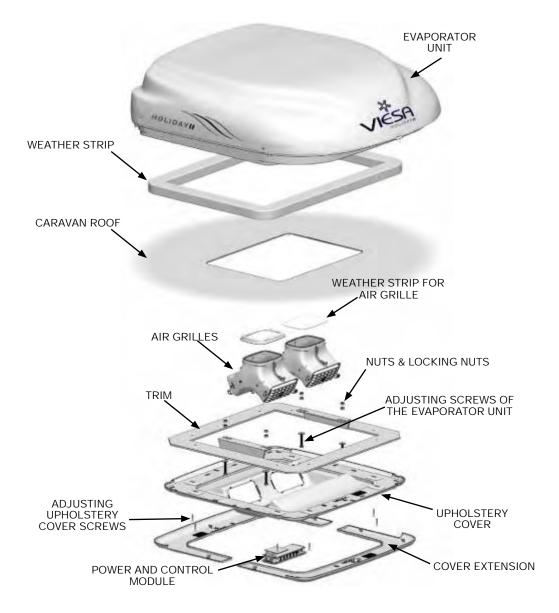
Emergency water supply shut-off valve.





2.1.10- INSTALLATION PROCDURE

Maximum inclination of 15° forwards or backwards.



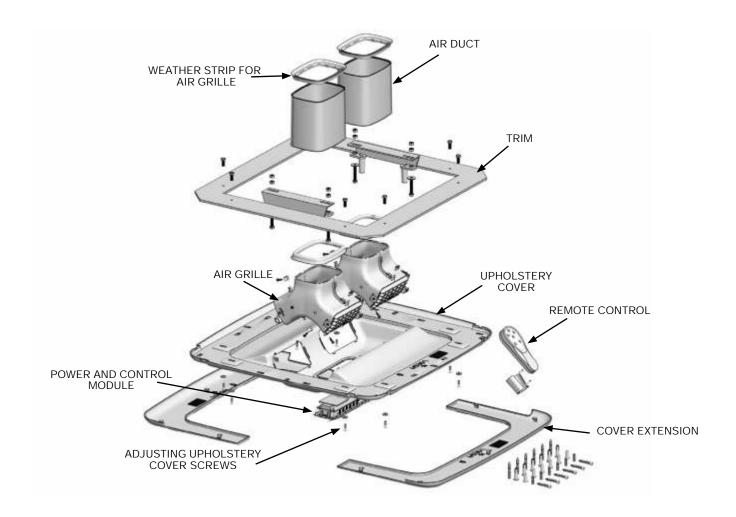
Stick the weather strip to the roof over the edge of the hatch. Place the evaporator unit on the roof over the weather strip Place the trim in the interior part of the caravan.

Use the 4 screws (changeable length depending on thickness of ceiling) and tighten evenly until the weather strip is compressed to 10 mm. approximately.

Note: If there is enough space, use a nut and locking nut between the underside of the caravan's roof and the base of the evaporator unit.



2.2- UPHOLSTERY COVER AND ACCESSORIES



2.3- POWER AND CONTROL MODULE

It allows the following operations:

To change the speed of the biturbo blower (up to 25 speeds)

To control the water pump cycles and the electrovalve.

To select time format: 24H (24 hours) or 12H (AM-PM).

To select the self power on or off.



2.3.1- TECHNICAL CHARACTERISTICS

- a) Protection for polarity reversal
- b) Protection for short-circuit in the water pump and/or electrical disconnection.
- c) Protection for voltage surge.
- d) Working tension 12 volts.
- e) Display with symbols to indicate functions.
- f) Automatic disconnection due to lack of water
- g) Automatic system shut-off for low battery tension (programmable between 10.5 and 12 volts).

Note: voltage is monitored at the battery terminals.

2.3.2- CONTROL OF THE WATER

The module controls the two water pumps and the electrovalve by timed cycles, based on signals transmitted by the two sensor levels

2.3.2.1- Pump control

The module directs the water pump to carry water from the tank tray to the evaporator.

2.3.2.2- Electrovalve control

When there is not enough water in the tank tray, the module powers up the electrovalve for a maximum of 99 seconds (programmable) making the pressurized water from the network to reach the tank tray.

Important: In units with a depressurized water circuit, the module can control the vehicle's water pump using a relay. (see page 27, electrical diagram)

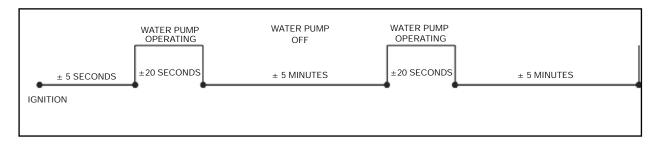
2.3.2.3- Level sensors

The module checks constantly the level of water in the tank tray with two sensors placed at the front and back of the tank tray.

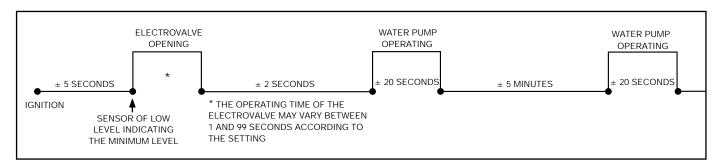


2.3.2.4- Water pump cycles

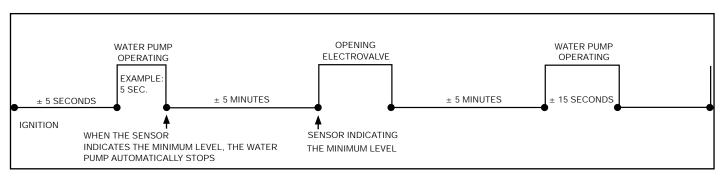
cycle with water in the tank tray



cycle with no water in the tank tray



cycle with low water in the tank tray



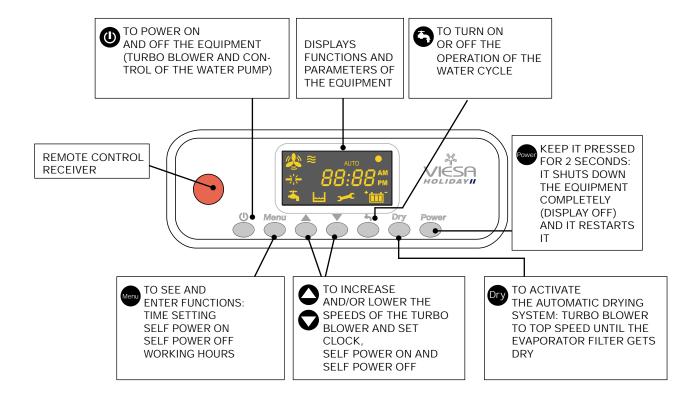


2.4- BOARD INDICATIONS

Important: before switching on the equipment:

With parked vehicle: Open one of the windows 2 to 3 cms. With the vehicle in motion: Open one of the windows 2 to 3 cms and close all other air entrances to the cabin so that hot air does not enter from the exterior.

2.4.1- BOARD



Note: time is expressed in 24H mode.

2.4.2- REMOTE CONTROL

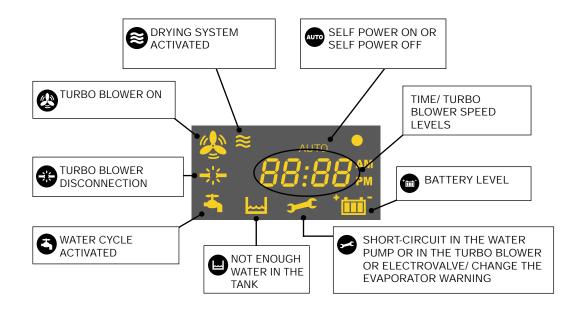
Performs all the functions explained before, except when the equipment is off.

Instruction for the *Dry* key: It activates the drying system; turbo blower to top speed UNTIL the evaporator filter gets totally dry.





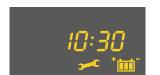
2.4.3- DISPLAY INDICATIONS



2.4.4- PERMANENT INFORMATION



- Clock.
- Battery level: If the voltage decreases to the set level (10,5 V. factory default), a blinking display will appear and the equipment will start slowing down automatically, decreasing the turbo blower speed progressively.



The command and control module accumulates the working hours, and after working for 1000 hours, turns on permanently indicting that the evaporator needs to be replaced.

Note: working hours are either when the turbo blower or the water pump is on.

Important: See configuration table on page 22.

- Every time the evaporator is replaced the timer must be set to **[]** (zero).
- Each time the command and control module is replaced, manually register the accumulated working hours.

2.4.5- TURBO BLOWER



By pressing the turbo blower and the pump control system will be activated. By pressing again the turbo blower and the pump control system will be disconnected.

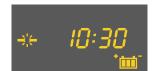




The equipment has 25 speed levels, which can be changed by pressing \(\sigma \) or \(\sigma \).







In case the turbo blower is disconnected, will turn on and the system will make a sound. The symbol will turn off after the problem is solved and the equipment is restarted by pressing Power.

Note: the water pump will not work if the turbo blower is disconnected.



In case the turbo blower consumes more than the normal voltage, (4) and (4) will turn on and the system will make a sound.

The symbols will turn off after the problem is solved and the equipment is restarted by pressing Power.

Note: turbo blower consumption of more than 11 A is consider excessive consumption.

2.4.6- WATER PUMP



When pressing 4 the water pump will turn off.



When pressing again the water pump will turn on.

Note: The key will turn on or off the pump only if the equipment is previously turned on with



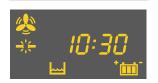
In case the water pump or electrovalve consumes more than normal, (4:4) and (24) will be displayed and the system will make a sound:

- If the problem is in the water pump (**) and will turn on.
- If the problem is in the electrovalve (a) and (a) will turn on.

The symbols will turn off after the problem is solved and the equipment is restarted by pressing Power.

Note: water pump consumption of more than 4A and 3A for the electrovalve is consider excessive.

2.4.7- WATER SYSTEM



When there is no water in the tank, or there is a problem with the electrovalve (will not open) or in the level sensor (always indicating high level)

will turn on and the system will make a sound.

The symbols will turn off after the problem is solved and the equipment is restarted by pressing Power.



2.4.8- FUNCTIONS

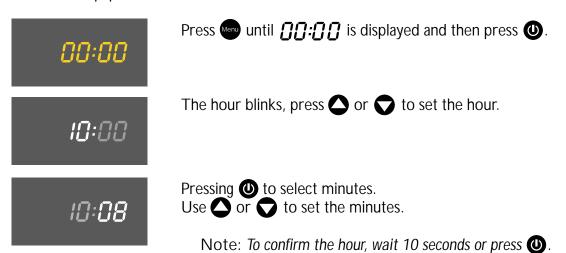
With the key were the user has access to different functions:

Time setting Self power on Self power off Working hours

Note: The functions are in 24H format.

2.4.8.1- Set Time

To set the equipment clock.



2.4.8.2- Self Power On

It allows to power on the equipment automatically at an established time.



Select with until (a), (a) and off appear, press (b) and then (c) or to program the time (it changes from 30 to 30 minutes).

To deactivate this function follow the instructions above and press

or until off appears.

Note: To confirm self power on, wait 10 seconds or press **①**.



2.4.8.3- Self Power Off

It allows to power off the equipment automatically at an established time.



Select with wountil wound off appear, press wand then of to program the time (it changes from 30 to 30 minutes).

To deactivate this function follow the instructions above and press

or until off appears.

Note: To confirm self power off, wait 10 seconds or press



Power off system can be set even when the equipment is off.

2.4.8.4- Working Hours (read only)



It indicates the accumulated equipment use since replacement of the evaporator filter. When it gets to 1000 hours \longrightarrow will turn on.

2.4.8.5- Drying System

It dries automatically the evaporator.

Important: If the equipment will remain off for more than 48 hs., activate the drying system to avoid bad smells when restarting it.



When pressing the equipment will dry the evaporator tray and the evaporator. For this, the turbo will remain on at high speed to dry the evaporator tray. Once the contained water in the tray evaporates, a 60 minutes countdown starts to dry the evaporator and then the biturbo turns off automatically. To deactivate the drying system press .

2.4.8.6- System Off

When pressing for 2 seconds the power button the equipment will completely turn-off (including the display).



2.4.8.7- Maximum Time in Service

Every time the equipment is turned on with **()** it will work for a maximum period of time previously established and then it will turned off automatically. By default, such period lasts 24 hours. This setting can be changed during initial configuration at installation.

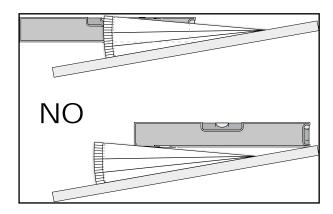
2.4.8.8- Command and control module configuration

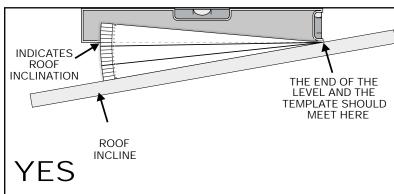
Very Important: If the working time of the electrovalve is not configured, the module will not exit from the "configuration" mode and the equipment will not work.

After system installation:

1- Measure the inclination of the caravan's roof. For this, use the template provided with the equipment and a standard level.

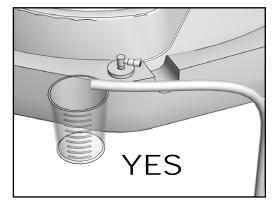
Important: Measure and respect strictly this measurement.

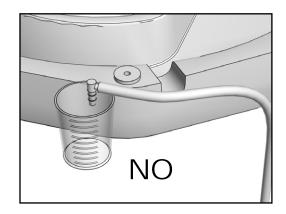




2- Remove the cover from the evaporator unit, disconnect the hose that goes to the elbow of the evaporator-tray and put it into a container with a cubic centimeter scale.

Very Important: Do not remove the elbow, just remove the hose.







3- When connecting the electrical installation, the command and control module will be automatically in "setting" indicating the need to set the time cycle of the electrovalve. Press or to set the cycle in seconds for the electrovalve. Then press and measure the water delivered to the container. Modify the electrovalve time cycle until getting the water volume indicated in the table below.

INCLINATION IN DEGREES	LITRES IN EACH OPENING CYCLE
0° a 2°	1.5 litres
3° a 15°	1 litre



Time cycle of the electrovalve must be between 1" and 99" Press to set the value.

To change command and control module parameters, go to setting menu pressing and at the same time for 2". will appear in the display indicating that you are in "setting" menu.

Proceed as shown in the following table:

By pressing the chosen value for the parameter is confirmed and simultaneously continues with the next parameter.

Note: 'indicates minutes.' indicates seconds.

FACTORY CONFIGURATION	PARAMETER	INPUT
24 h	Time format 12 or 24 h.	Using \triangle and \bigcirc select 24 h or 12 h. Then press \bigcirc .
*0.50 *****	Shear stress.	Using and modify the value. Values allowed: 10.5 V to 12 V Then press
24 h	Maximum working time.	Using and change the values. Range allowed: 4 to 24 hours. Then press



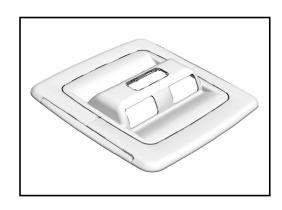
00 00°	Working time (evaporating filter replacement).	- If it is in [1] - If the command and control module was replaced, register the accumulated working hours the module had by pressing or If the evaporator filter was changed press to reset, then press .
- BB ''	Working time of the electrovalve.	Using and change the values. Range allowed: 1" to 99". Then press
	The display turns off.	To restart press Power.

2.5- UPHOLSTERY COVER

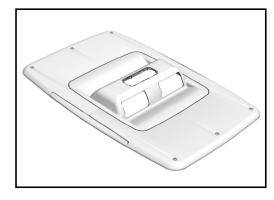
For a better aesthetic termination, the upholstery cover is completed with extensions.

Two extensions sizes can be used according to the specific model of caravan.

Upholstery cover with small extension: 57 x 57 cm.



Upholstery cover with large extension: 84 x 57 cm.

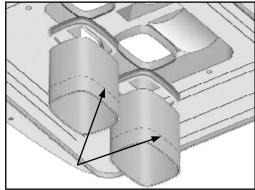




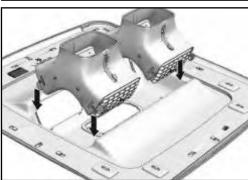
2.5.1- INSTALLATION PROCEDURE

1- Insert the weather strips into the evaporator`s base openings and push the air ducts (burr up) through the weather strips making pressure until they are firmly placed

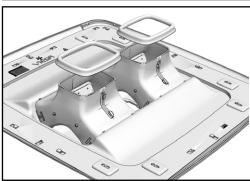
Important: Cut the air ducts if needed. Air ducts 240 mm high can be ordered for very thick ceilings.



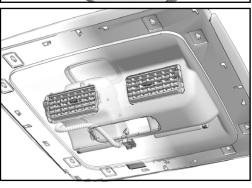
2-Put the air grilles making pressure until they are firmly inserted into the locking devices of the upholstery-cover.



3- Insert the weather strips into the air grilles.



4- Affix the upholstery cove and fish the electrical installation through the upholstery cover to the opening where the command and control module will be placed.



5- Tighten the upholstery-cover with the 8 screws provided.



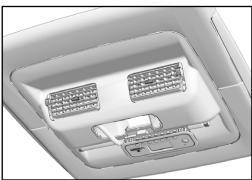


6- Put the cover extensions.

- If using the small extension, just insert both sides to the upholstery cover.
- If using the large extension, besides inserting it to the upholstery cover, make 6 holes of \emptyset 8 mm to the caravan's ceiling and put 6 clips (provided).



7- Connect the command and control module to the electrical installation.



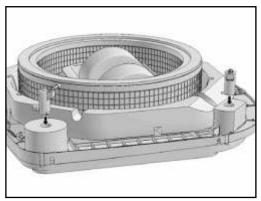
8- Insert the command and control module in the upholstery cover.



2.6- WATER PUMP

It carries the water to the evaporator.

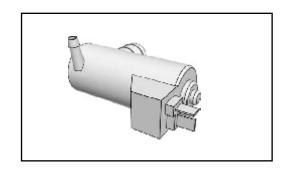
The pumps are provided already installed in the evaporator unit inside their rubber bearings.





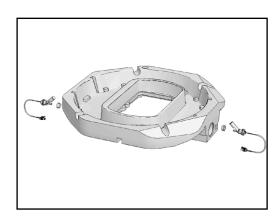
2.6.1- TECHNICAL CHARACTERISTICS

- a) Centrifugal.b) Consumption: 3.1 A.



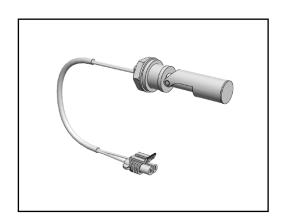
2.7- LEVEL SENSOR

Detects the presence of water in the evaporator's tray.



2.7.1- TECHNICAL CHARACTERISTICS

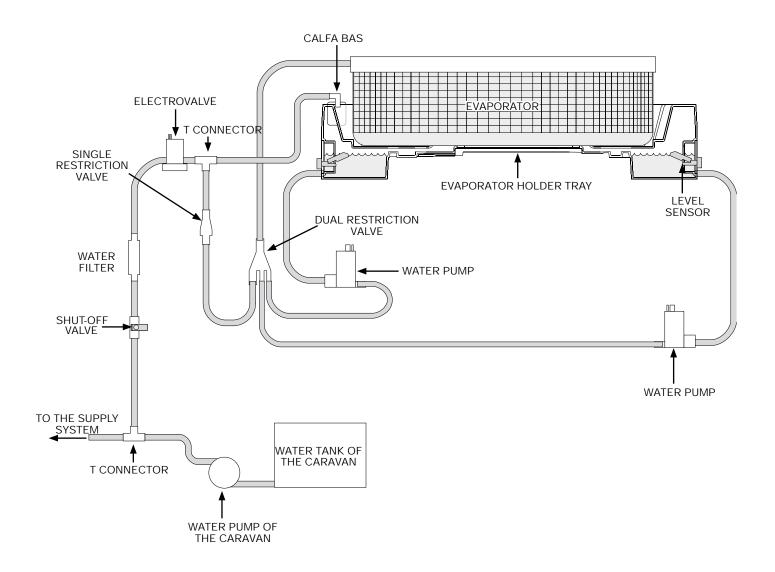
- a) Operation ON-OFF.b) Reed Switch.





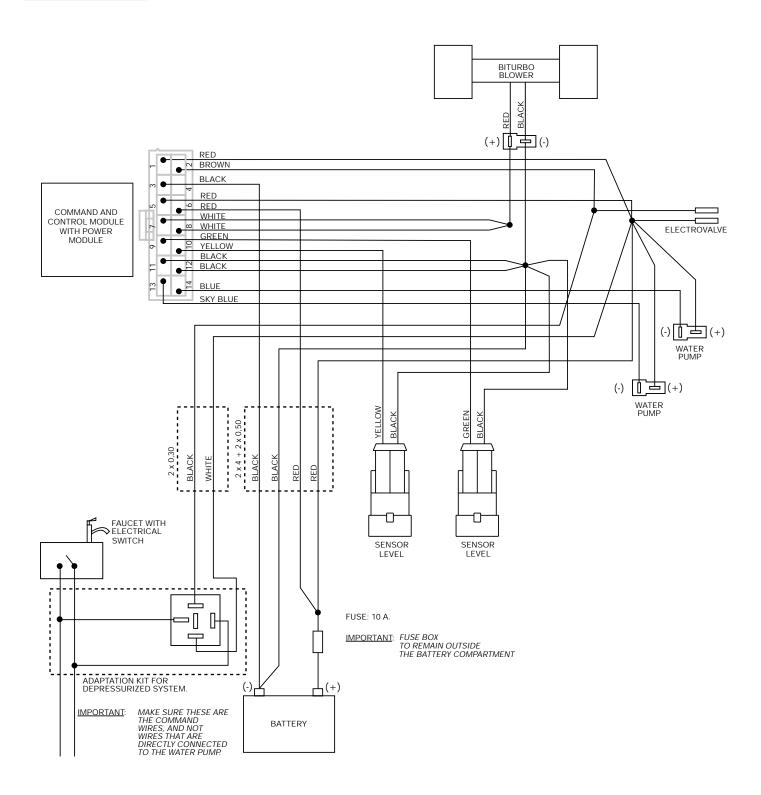
3- CONNECTIONS

3.1- HYDRAULIC





3.2- ELECTRICAL

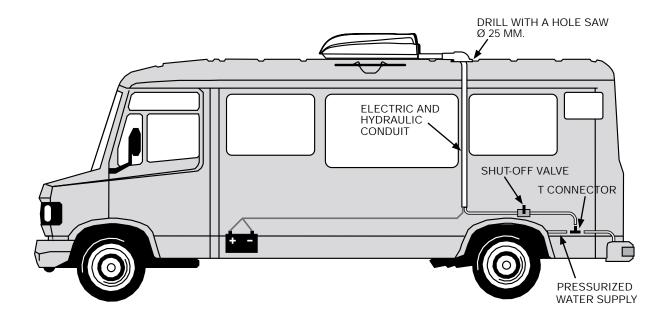


Note: The red (+) and black (-) wires \emptyset 0.50 mm that connect to the battery detect the voltage at the command and control module.



3.3.- ELECTRICAL AND HYDRAULIC INSTALLATION

Very Important: - The electrical supply must be connected directly to an auxiliary battery.



3.3.1- ROUTING

Due to the great variety of caravan models, the electrical and hydraulic installation may vary. Installer must use wire and hoses appropriately protected.

Important: Do not install close to any heat source in order to avoid water leakages or short-circuits.

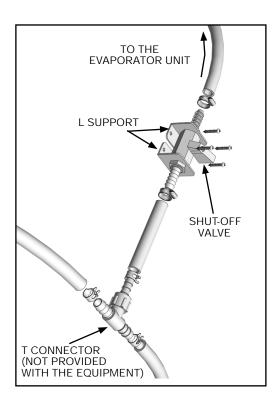
3.3.2- HYDRAULIC CONNECTIONS

Insert a T connector in the accessories hose of the water supply system (not provided with the equipment).

Install the provided shut-off valve in an easy to access location. Fix it with the screws and supports provided.

Insert the hose from the evaporating unit; which is now in the inside of the caravan. Make sure hose is protected and without kinks, sharp bends or obstructions.

Important: Watertight each connection with clamps.





4- RECOMMENDATIONS TO THE INSTALLER

- Wet the evaporator immediately after installation in order to fast start cooling.
- Clean the working area.
- Provide the owner with the Viesa User's Manual and warranty information.
- Explain the user the operation and maintenance of the equipment in detail.
- Explain to the user that, BEFORE SWITCHING ON THE UNIT one window must have a 3 cm opening and all other vents must be closed. This opening will allow hot air to be expelled from the interior.

5- GENERAL MAINTENANCE



When is displayed, the evaporator must be replaced.

The equipment will delay in cooling until the evaporator is totally wet.

Do not use fuses higher than 10 Amp.

The equipment will disconnect automatically due to low tension so as to prevent damages to the battery.

Foresee water replenishment taking into account that the unit consumes between 2 and 5 liters per hour depending on ambient temperature.

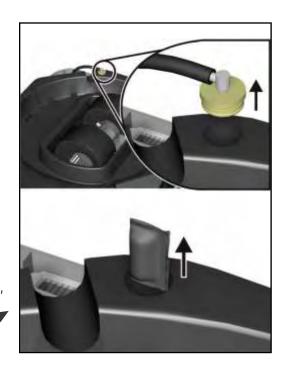
▲ When performing equipment maintenance or, by any reason, when the upper cover or the upholstery cover are removed, the equipment MUST NOT BE SWITCHED ON until both covers are reinstalled.

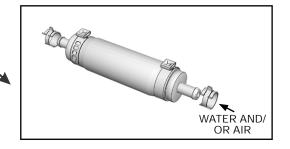
Every 6 months:

- Replace the granulated Calfa Bas package.
- Clean the water filter using pressurized water or compressed air opposite to the arrow's direction.

Do not use chemical products to clean the control panel.

During short stops leave the equipment on so as to keep the cabin fresh.







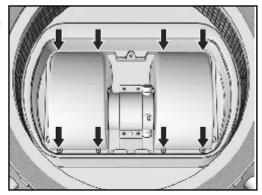
6- REPLACEMENT OF THE MAIN COMPONENTS

6.1- REPLACEMENT OF THE MOTOR OF THE BITURBO BLOWER

Remove the cover of the evaporator unit fixed with 5 screws.

Remove the evaporator.

Remove the two turbines' covers taking away the 8 screws.

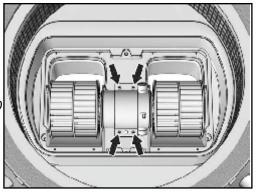


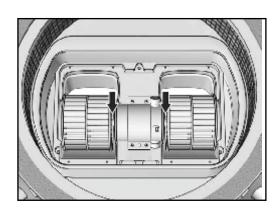
Remove the 4 screws of the blower mounting bracket and remove it.

Replace the motor making the corresponding electrical connection.

Put back the motor's mounting bracket and adjust.

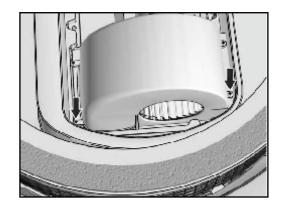
Important: Before tightening the bracket, center the motor correctly so that the turbines do not on rub the sides.





Put back the two turbine covers.

Place back and adjust the cover of the evaporator unit.





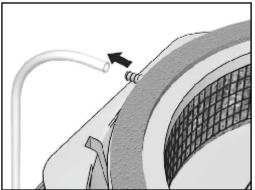
6.2- REPLACEMENT OF THE EVAPORATOR

Remove the upper cover, after removal of the 5 screws. Remove and replace the evaporator (disconnect reconnect the 9 x 15 cm hose).

Place back the upper cover fixing it with the 5 screws.

Go into the setting menu and reset the operating hours to cero ((()) (see Command and Control Module configuration).





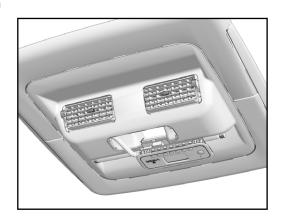
6.3- REPLACEMENT OF THE POWER AND CONTROL MODULE

Remove completely the command and control module from the front part of the upholstery cover.

Disconnect the electrical wiring.

Insert the electrical wiring to the new module.

Put the command and control module in the upholstery cover.





7- FAILURE LOCATION GUIDE

7.1- EQUIPMENT WITH LOW EFFICIENCY

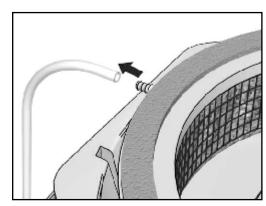
Check:

7.1.1- WATER PUMP PERFORMANCE AND ELECTRICAL CONNECTIONS

a) Remove the upper cover.



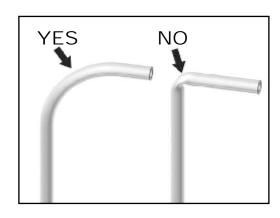
b) Remove the water hose from the evaporator.



c) Using a container with a cm³ scale on it, turn on the pump and collect the water for one cycle, which should be between 800 cm³ (minimum) and 1500 cm³ (maximum).

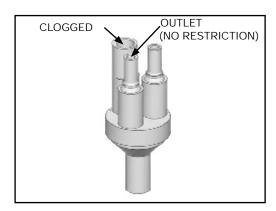
If the water collected is below the minimum, check that:

The evaporator hose is not obstructed, bent or kinked.



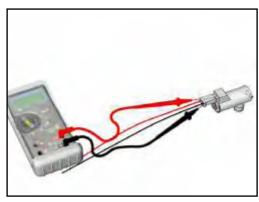


The restriction valve is not clogged and that water flows freely trough the outlet.



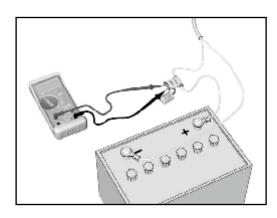
The water pump supply voltage is correct: 9.8 V minimum.

Important: Measure at the pump's connector with the pump working and the turbo blower at maximum speed.

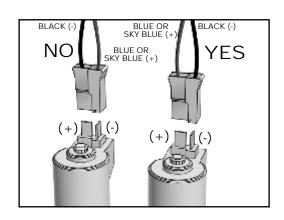


The water pump consumption (Amp) is between the specified values: between 1A and 3A (with water running through).

Important: Remove the fuse and measure at the fuse box while the pump is running.



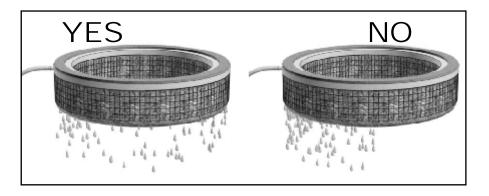
The water pump electrical connections are correct.





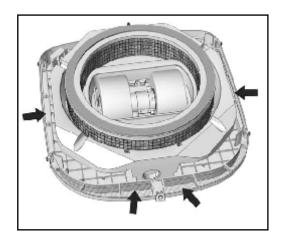
7.1.2- EVAPORATOR ASSESSMENT

Manually pull up the evaporator and with the water pump working, check that water is distributed evenly around the evaporator.



7.1.3- VENTILATION

Check that the air intakes are not obstructed.



Verify that the evaporator is not dirty or lacking wooden chips.





HYDRAULIC	
HIDRAULIC	HYDRAULIC
1- Inverted electrical connections of water pump/s.2- Evaporator 9 x 15 cm hose	1- Connect correctly: Blue or sky blue (+) and black (-). 2- Modify.
3- Evaporator placed upside down	3- Place the evaporator with the hose connector upwards.
4- Blocked holes at the water distributor of the evaporator.	4- Replace the evaporator.
	5- Clean and/or replace the evaporator.
6- Water pump/s damage. 7- Faulty power and control module.	6- Replace the water pump/s.7- Replace the power and control module.
VENTU ATION	VENTILATION
8- Air grilles without weather	8- Put strips to the air grilles.
9- Blocked air entrances of the base of the unit.	9- Clean the air entrances.
10- Faulty blower.	10- Replace the motor of the blower.
1- Incorrectly oriented holes of the water distributor of the evaporator.	1- Replace the evaporator.
2- Blocked PVC filters.	2- Clean the PVC tray filters.
3- Failure in the electrovalve.4- Faulty power and control module.5- Unit parked in an extremely inclined surface.	3- Replace the electrovalve.4- Replace the power and control module.5- Level the unit.
	of water pump/s. 2- Evaporator 9 x 15 cm hose blocked. 3- Evaporator placed upside down 4- Blocked holes at the water distributor of the evaporator. 5- Dirty evaporator. 6- Water pump/s damage. 7- Faulty power and control module. VENTILATION 8- Air grilles without weather strips. 9- Blocked air entrances of the base of the unit. 10- Faulty blower. 1- Incorrectly oriented holes of the water distributor of the evaporator. 2- Blocked PVC filters. 3- Failure in the electrovalve. 4- Faulty power and control module. 5- Unit parked in an extremely



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The equipment works well, but the fuse burns out continuously.	 Short-circuit in the blower or in its connections. Short-circuit in the water pump/s or its/their connections. Damaged power wire. The voltage of the pump/s does not correspond to the power module voltage. The blower voltage does not match the power module voltage. 	 Replace the blower or repair. Replace the water pump/s or repair. Locate, repair and seal correctly. Replace the water pump/s. Replace the motor of the blower.
The speeds do not match the display indications or they do not change.	1- Faulty blower. 2- Faulty power module.	1- Replace the motor of the blower.2- Replace the command and control module.
Blower at its maximum speed cannot be turned off.	1- Faulty power module.	1- Replace the command and control module. Check the free spinning of the blower.
DISPLAY INDICATORS		
Short-circuit in the water pump	1- Short-circuit or high consumption of the water pump or electrovalve.2- Short-circuit in wires and connections of the water pump or electrovalve.	1- Replace.2- Locate, repair and seal correctly.
Short-circuit in the electrovalve	4 D'	1.0
→ IO:30	1- Disconnected cables and/or electric socket of the turboblower.2- Cut cable/s.	1- Connect.2- Locate, repair and seal correctly.
Turbo-blower disconnection	3- Bad contact between the turbo blower terminals.	3- Clean or replace the terminals.



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Short-circuit in the turbo-blower	1- Short-circuit or high consumption of the turbo blower.2- Short-circuit in the turbo blower connections.	1- Replace.2- Locate, repair and seal correctly.
Lack of water	 Tank of the caravan with no water or caravan's pump damaged. Electrovalve damaged (it will not open) or disconnected. Water filter clogged. Strangled water hose. Disconnection of the level sensors. Level sensor wires damaged. Faulty level sensor. 	 Put some water or repair the damage. Replace. Connect. Clean it or replace it. Repair. Connect. Locate, repair and seal correctly. Replace the level sensor.
10:30 ~ ⁺ m ⁻	1- End of the evaporator working life.	1- Replace and configure to zero (page 22).
	1- Faulty control and command module.	1- Replace the module.
10:30 ⁺⇔⁻	1- Low battery level. 2- 1 x 0,50 red or black cable disconnected or cut.	1- Charge battery. 2- Connect.

INSTALLATION MANUAL VIESA HOLIDAY II CODE X6022.A139-2 REVISION 003 1-2012



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