

ECOLOGICAL COOLERS

INTELLIGENT PLUS

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

VIESA Intelligent Plus is a roof mounted cab cooler that delivers cool air to the truck's cabin using evaporative cooling and without running the truck's engine.

Operation

Cooling is generated by vaporized cool water delivered by a self-contained electrical motor. During operation it only consumes water and it makes no use of internal combustion engines, nor does it use chemical coolants or emit gases into the atmosphere. The unit is equipped with a water pump located in an auxiliary tank which takes water to the evaporator. A biturbo blower pushes the exterior air to the interior of the truck forcing the air through the evaporator and therefore cooling the warm air. The exceeding water backs to the water tank.

Application Applied to any vehicle withan operating voltage of 12 V.





1.1- LOCATION OF PARTS AND COMPONENTS



1.2- TECHNICAL CHARACTERISTICS

Full remote control. LCD digital board with command for each function. Alarm clock. Auto switch on. Auto switch off. Aerodynamic external design Evaporator unit cover with UV protection Adjustable upholstery cover. 8- speed turbo blower Courtesy lights for driver and passenger. Distribution air ducts with airtight closure. Turbo blower with sealed motor mounted on bearings Designed and manufactured according to EMC (electromagnetic compatibility norm). 32-litre water tank with pump cover Anti-spill water system 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 battery voltage



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 liter average consumption of water per hour, depending on ambient humidity

2- MAIN COMPONENTS

The equipment consists of an evaporating unit, electrical and hydraulic connections, an upholstery-cover and a water tank with pump.

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

2.1- EVAPORATOR UNIT







COVER OF THE EVAPORATOR UNIT



9

EVAPORATOR

Composed of two even distributed layers of special wood shavings.

EVAPORATOR TRAY TANK

This element works as a water deposit and it collects the excess water that the evaporator receives. It allows the return of excess water to the water tank.

LEVEL SENSOR

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

BITURBO BLOWER

It has two turbines which absorbs the air that comes from outside forcing it to the interior. Maximum consumption is 7,5 A. in 12 volt-units.

POWER MODULE

It controls the biturbo blower speed.















INSTALLATION PROCDURE

Units Without Hatch



A DO NOT CUT ROOF OVER REINFORCING CHANNELS

11

- a) Use Viesa's Interior and Exterior Templates to cut the roof openings.
- a.1) Determine the suitable place where the evaporator unit will be placed.
- a.2) Mark the openings to be cut.
- a.3) Check from the inside that no reinforcement channels or electrical wires will be cut.
- a.4) Cut the roof and shave any roughness.

Note: When cutting, be carefull not to make right angles on the the corners. Corners must be round (see detail) in order to avoid future roof fissures.

Important: If the roof surface is a thin metal sheet, a 1cm. fold upwards has to be made all around the perimeter.

- b) Glue the weather strip to the base of the evaporator.
- c) Apply silicone glue on the underside of weather strip so as to avoid water filtration.
- d) Place and affix the evaporator unit to the roof.
- e) Place the steel frame in the interior against the ceiling.

f) Use the 4 screws (changeable length in accordance with the thickness of the ceiling) and tighten 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 roof and the base of the evaporator unit.

Important: In roofs without reinforcements some support must be provided in order to maintain rigidity to the cab.











a) Remove the original hatch.

b) Glue the weather strip to the base of the evaporator.

Make sure weather strip will sit on the roof, not over the opening.

c) Apply silicone glue on the underside of weather strip so as to avoid water filtration.

d) Place and affix the evaporator unit to the truck's roof.



e) Place the adjustable roof supports in the interior against the ceiling.f) Use the 4 screws (changeable length in accordance with the thickness of the ceiling) and tighten 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 roof and the base of the evaporator unit.

Note: If the adjustable supports are to long, cut them at their ends.

Important: In roofs without reinforcements some support must be provided in order to maintain rigidity to the cab.









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 8 speeds)
- To control the water pump cycles.
- To select time format: 24H (24 hours) or 12H (AM-PM).
- To select the self power on or off.
- To activate the alarm clock.
- To select automatic mode.
- To turn on/off courtesy lights.
- To select temperature indication (°C or °F).
- To select the language.



TECHNICAL CHARACTERISTICS

- a) Protection for polarity reversal.
- b) Parameter settings: Time system 24 H / 12 H, water pump time,
- drying period and maximum working time.
- c) Short-circuit protection in the water pump and in the biturbo fan and/
- or in its corresponding electrical connections.
- d) Protection for high voltage.
- e) Working tension: 12 volts
- f) Auto switch off for low battery tension
- g) Display with symbols to indicate the different functions.
- h) Automatic disconnection due to lack of water in the tank.

Note: voltage is monitored at the battery terminals.

CONTROL OF THE WATER

The module controls the operation of the pump cycle. It is showed in the following chart:



LOW WATER LEVEL SENSOR

It monitors the presence of water in the tank; if there is a lack of water, it informs the operator about it with an audio-visual indication and it stops the operation of the water pump automatically.

Note: After replenishing the water tank the alarm will stop after approximately 3 minutes.



Water Cycle Setting

Very important: It is necessary to select one of the settings for the water cycle and according to the height of the water column. Without this setting the power and control module will not work.



Important: to change the setting after installation proceed as follows:

Remove the fuse or disconnect the main positive wire (+) Activate the corresponding key Place the fuse or connect the main positive cable (+)

Note: If no key has been chosen, the display will show CONFIGURE.



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 exterior.

BOARD



Note: time is expressed in 24H mode.

Keys must be held pressed for \pm 1 second

A beep will be heard every time a key is pressed

By default, language is ENGLISH, time is in 24H format and temperature is shown in $^{\circ}$ C.

REMOTE CONTROL

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





DISPLAY INDICATIONS

Permanent Information

12V	30 ° C	1000
(1)	(2)	3

oltage
(

External temperature: °C or °F

3 Clock: 24H (24 hours) or 12H (AM/PM)

Language Selection

Press the we button. The display will show	LANGUAGE
Wait for 3 seconds, the word ENGLISH	will appear.
Select language by pressing the O or O k	ey.

English	ENGLISH	French	FRANCAIS
Portuguese	PORTUGUES	Germany	DEUTSCH
Italian	I TAL I ANO	Spanish	Español
Dutch	NEDERLANDS		

New language is stored after the desired language is selected and no other key is pressed for 3 seconds.

Example to select Spanish language:

Press the www bottom. The display will show	LANGUAGE . Wait	
for 3 seconds, the word ENGLISH will	ll appear.	
Press the O or the O key until the display sho	ows Español	
Wait for 3 seconds. Spanish language is now stored.		

Important: If the Viesa system is disconnected from the vehicle's battery, all set-up functions will revert to default.



Please refer to the list below to change LANGUAGE to ENGLISH

English	LANGUAGE	French	LANGUE
Portuguese	LINGUA	German	SPRACHE
Italian	LINGUA	Spanish	IDIOMA
Duch	TAAL		

Turbo Fan



By pressing the ON-OFF switch, U turbo fan and water pump are activated.

The L.C. display will show FAN ON and speed.



There are 8 fan speeds which can be selected by pressing the \bigcirc keys.



By pressing again the ON-OFF switch, U the system will turn off.

Water Pump



The water pump will be disconnected by pressing the 🕒 key.



The water pump will re-connect when pressing the 🖪 key again.



Note: The key solution will connect or disconnect the water pump even if



If the water tank is empty the pump will not operate and a message and sound alarm will result. To turn off the alarm and message add water to

the tank or press the water a pump key.

Important: Alarm and message will disappear approximately 3 minutes after water is added to tank.



(PUMP DISCONNECT)

If the water pump is disconnected, a message and sound alarm will result. Alarm and message will disappear as soon as the pump is re-connected or the pump on-off switch is pressed.

Important: "WATER TANK EMPTY" and "PUMP DISCONNECT" messages and alarm will only appear with the water pump ON.

Light Control

Every time the light switch (left or right) is pressed, the corresponding light changes according to the following cycle: ON dim - ON bright - OFF.

FUNCTIONS

To set-up menu functions, press the menu key and scroll to the desired function. Wait for 3 seconds on the selected function and the programming mode will start.

- Language (see Language Selection before)
- Time
- Alarm clock
- Self power on
- Self power off
- Automatic mode
- Temperature

Time Setting

Select this function with the menu we key and wait for 3 seconds. The following explanation is for 24H mode.



The 24H mode flashes, press the key if you want the 12H mode instead.

24H 00-00

The hour flashes, press the keys to set the hour.





Wait for 3 seconds or press the menu key to

Press the **A** keys to set the

minutes and wait 3 seconds or press the menu

key to finish.

Note: To fast-scroll press and hold the up or down key.

Alarm Clock

To set the alarm clock, select this function with the menu key me and wait for 3 seconds.

The following explanation is for 24H mode

ALARM CLOCK	
00 00	The hour flashes, press the keys to set the hour.
00 00	Wait for 3 seconds or press the menu key 🐨 to move to minutes.
	Press the 🔷 👽 keys to set the
	minutes and wait 3 seconds or press the menu
	key to finish.
Note: To fast-scroll pr	ess and hold the up or down key. 🔷 🛇



If the alarm clock is active, a flashing "d" will appear instead of the semi-colon in the L.C. display clock.

Important: While the alarm clock is active, all other alarm sounds are cancelled. LCD messages will continue.



Note: When the alarm clock is activated, both system lights will turn on automatically in the dim position for one minute and then turn off. To switch lights off immediately, press any key on the control panel or remote control and use the key.



In 24H mode, the alarm clock is cancelled by entering zero values for hours and minutes.



In 12H mode, the alarm clock is cancelled by entering "a12:00".

Note: The alarm clock cannot be set to "00:00" or "a12:00".

Self Power On

This function allows turning the system on automatically at a predetermined time. The following explanation is for 24H mode. Select this function with the menu key and wait for 3 seconds.





The hour flashes, press the \mathbf{A} keys to set the hour.



Wait for 3 seconds or press the menu key move to minutes.



minutes and wait 3 seconds or press the menu we key to finish.

Note: To fast scroll press and hold the up or down key.





If self power on is active, a flashing "e" will appear instead of the semi-colon in the L.C. display clock.

Note: When both alarm clock and self power on are active, "d" and "e" will flash alternatively.



In 24H mode, self power on is cancelled by entering zero values for hours and minutes.



In 12H mode, self power on is cancelled by entering "a12:00".

Note: Self power can be programmed even with the system turned off.

Self Power Off

This function allows turning the system off automatically at a predetermined time. The following explanation is for 24H mode. Select this function with the menu key and wait for 3 seconds.





The hour flashes, press the keys to set the hour.



Wait for 3 seconds or press the menu key we to

move to minutes.

Press the I view of the view o

Note: To fast scroll press and hold the up or down key.





If self power off is active, a flashing "a" will appear instead of the semi-colon in the L.C. display clock.

Note: When alarm clock, self power on and self power off are all active "a", "d" and "e" will flash alternatively.



In 24H mode, self power off is cancelled by entering zero values for hours and minutes.



In 12H mode, self power off is cancelled by entering "a12:00".

Note: Self power can be programmed even with the system turned off.

Automatic Mode

This function automatically adjusts the turbo fan speed to the temperature outside the vehicle.





If automatic mode is active, a flashing \rightarrow will appear to the left of temperature in the L.C. display.



Pressing the system on-off switch **(U)** will cancel automatic mode and turn the turbo fan off.

Note: In automatic mode, the system (water pump and turbo fan) is always on. If temperature outside is very low, the turbo fan will work at minimum speed.

EXITERNAL TEMPERATURE		Speed
29°C or higher	84°F or higher	8
28°C	82°F	7
27°C	81°F	6
26°C	79°F	5
25°C	77°F	4
24°C	75°F	3
23°C	73°F	2
22°C or lower	72°F or lower	1



Temperature

This function allows selecting the outside temperature display in degree



Celsius (°C) or Fahrenheit (°F). Select this function with the menu key (and wait for 3 seconds. Press key \bigcirc or \bigcirc to select °C or °F and wait for 3 seconds.

Note: Below -5°C (23°F) or above 70°C (158°F), the display will show 240 - 10.00

The temperature sensor is placed inside the system's roof mounted unit.

Important: If the temperature sensor is not connected, the following message will appear on the display:

24U"C	1	8:	00
-------	---	----	----

2.5- UPHOLSTERY COVER





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- Attach the command and control module to the upholstery cover inserting the 3 locking pegs into their holes. Insert the ribbon cable as indicated in the figure (raise the connector head first, introduce the ribbon cable and then push down the connector head to lock).

3- Locate the switch commanding the water cycle and set it according to the water column height.(See Water Cycle Setting before)

4- Insert the courtesy lights to the upholstery cover.

5- Connect the electrical installation to the command and control module. Connect the courtesy lights.













Note: Tie and stick the electrical installation to the upholstery cover with the provided tie.



6- Place the upholstery cover with the display oriented to the front of the cabin.

7- Affix the upholstery cover with the 4 screws (without tightening.



8- Introduce the air grilles with their weather strips.





9- Fasten the air grilles to the upholstery cover with the screws, in the indicated sequence.





10- Tighten, without forcing, the 4 upholstery screws until covering the original upholstery without gaps.



2.6- WATER TANK

Placement





WATER TANK MODELS



There are two models:

Standard: 32 litres. Dimensions: 64 x 52 x 13,5 cm. Small: 20 litres. Dimensions: 64 x 35 x 13,5 cm.

Made of a non translucent material which assures darkness inside and prevents fungi formation on the interior walls. Resistant to vibrations and rapid changes in temperature.







INSTALLATION

a) at the back of the cabin.

b) in the chassis.

note: Do not place it near the exhaust pipe.

Placing the tank horizontally (a) is preferred. Use vertical placement (b) only if not possible to place it horizontally.









Identify the place on the rear part of the cabin where the tank will be installed.

Use the support plate to mark the points of attachment to the cabin. ALLWAYS OVER THE WELDINGLINES prove with a 5 mm. diameter drill bit and then perforate with a 9 mm. drill bit.





If using neoprene rivets, use a 12 mm. drill bit. Neoprene rivets are used in units with fibreglass cabins.



Introduce and affix the threaded rivets provided. For neoprene rivets insert them (manually) up to the brim. Then adjust the screws.

Install the water tank support plate to the cabin taking into account that there must be a separation of 10 mm. between the plate and the cabin. Use the spacers provided.

Place the polyester foam washers in order to avoid water or humidity filtrations.









Important: Use adequate separators to compensate uneven surfaces.

Before attaching the support plate to the cabin, set the tank's fixing screws and washers provided.

Attach the support plate firmly.

When using the water tank on vertical position; you have to make 3 holes of 22 mm. in diameter. Plug original holes with provided plugs.

- For venting: On the upper part of the tank and at its center.

- For the level sensor: On one of the ends of the marked line where the water pump will be placed.











- For draining, at the bottom of the water tank and on the same side of the water tank cap.

Important: Remove shavings.



Place the water tank on the support plate and affix with the provided screws and washers.

Once the tank has been installed, cut the cord from the evaporator containing hoses and wires. See electrical and hydraulic diagrams in order to assess their length.

2.7 - WATER TANK SUPPORT (OPTIONAL)

Depending on the vehicle, the water tank support can be placed parallel or perpendicular to the chassis frame. Never drill the frame's flange.







Additional "U" channel pieces may be necessary.



Important: distances A and B must be equal.







Technical Characteristics

a) Centrifugal - Sealed

b) Consumption: 4 A.

Installation Screw the pump directly to the tank's opening, according to the picture. Make sure that the rubber gasket seats correctly against the tank's wall.









Important: Before adjusting the pump completely, insert the shorter length of the preformed hose to the pump's output nipple.



2.9- LEVEL SENSOR

Controls the water pump operation.

Introduce the level sensor according to the figure. Keep the marked arrow "UP".

Use the provided rubber gasket.





2.10- WATER PUMP COVER

To place the water pump cover insert first one of the holes in the water tank pin an then, manually, insert the second hole.

Note: Make sure not to obstruct the water pump cover draining hole. If necessary, make an additional hole.

Important: Don't use tools to remove the water pump cover.







3- CONNECTIONS



Note: cut the tubes accordingly. The grey cord wrap must cover all the hoses and wires until it reaches the pump cover.

Important: to install the elbow (for ventilation) in the tank, make a 22 mm. diameter hole in the center of the top the tank (remove shavings). Use the elbow provided.



3.2- ELECTRICAL



A Very Important: The fuse must be installed at the end.

Important: In ADR (dangerous goods Transportation), encase and protect the electrical wiring in approved fire-proof material.

Note: use the provided wire terminals, terminal covers and sockets. Solder wire terminals and / or joints with tin.

The connection of the pump and level sensor must remain inside the pump cover.

Important: the positive cable (+) is the last element to be connected.



ATTACHING THE ELECTRICAL AND HYDRAULIC CONNECTIONS

Use the self-adhesive tie bases and plastic ties provided to attach the electrical and hydraulic connections from the evaporator down to the water tank.

Note: Clean the surface where the adhesive will be placed.







4- UNITS WITH TILT CABINS

a) With Water Tank Applied to the Cabin.

Note: The power supply must be direct from the battery or the main switch.



b) With Water Tank Applied to the Chassis





Wires to the water tank and battery must be extended. See detail below.



VIESA

5- 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.

6- GENERAL MAINTENANCE

The equipment will delay in cooling until the evaporator is totally wet. Do not use fuses higher than 15 Amp.

The equipment will deactivate automatically due to low tension so

as to prevent damages to the battery.

Use only clean water.

Foresee replenishment of water taking into account that the

equipment consumes between 2 and 5 litres per hour depending on the ambient temperature.

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

System must be turned off when exhaust fumes or toxic particles could enter the cab through the system.

▲ When performing maintenance of the equipment or if the evaporator unit's cover or the upholstery cover are removed, the system MUST NOT BE SWITCHED ON and you must not switch it on with any of these elements removed.

Keep the tank clean. Every 200 hours of use

- Drain all the water from the tank by removing the drain plug.
- Rinse with clean water thoroughly
- Pour one bottle of Viesa Scented Cleansing Fluid.
- Fill-up the tank with clean water.

Each 6 months change the package of granulated Calfa Bas crystals. Do not use chemical products to clean the control panel.

VIESA SCENTED FLUID (EVERY 200 HOURS OF USE)



GRANULATED CALFA BAS EACH 6 MONTHS





Every 2 months or according to working conditions:

- Submerge the evaporator in water with bleach (1).
- Clean the grids of the air entrances (2).
- Clean the filter of the collector tray (3).

Once a year replace the evaporator (1).



Reconnect water returning hose to the filter of the collector tray according to the figure.





7- REPLACEMENT OF THE MAIN COMPONENTS

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.



REPLACEMENT OF THE POWER MODULE

Remove the cover of the evaporator unit. Remove the 2 screws holding the power module to the base. Change the power module and reconnect. Reinstall the cover of the evaporator unit.



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.





REPLACEMENT OF THE POWER AND CONTROL MODULE

Remove the air grilles and upholstery cover. Disconnect the electrical installation and the ribbon cable from the module.

Remove the module unlocking the 3 locking pegs.

Locate the switch commanding the water cycle in the new module and set it. (See Water Cycle Setting before)

Put the new command and control module to the upholstery cover inserting the 3 locking pegs into their holes. Insert the ribbon cable as indicated in the figure (raise the connector head first, introduce the ribbon cable and then push down the connector head to lock).

Reconnect the electrical installation to the module. Put back air grilles and upholstery cover.





REPLACEMENT OF COURTESY LIGHTS

Remove the light unit twisting it to the left 1/4 turn. Replace the bulb. Reinstall the light unit.





8- FAILURE LOCATION GUIDE

EQUIPMENT WITH LOW EFFICIENCY

Check:

WATER PUMP PERFORMANCE AND ELECTRICAL CONNECTIONS

a) Remove the upper cover.

Juits A



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 switch commanding the water cycle is properly set. (See Water Cycle Setting before)







The restriction value 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 3.7A and 6.0A (with water running through).

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

The water pump electrical connections are correct.



If the water collected is above the maximum, check that:

The restriction value is not clogged and that water returns freely trough the outlet.

The switch commanding the water cycle is properly set. (See Water Cycle Setting before)



EVAPORATOR ASSESSMENT

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



VENTILATION

Check that the air grilles have their weather strips.

Check that the air intakes are not obstructed.







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



Verify that electrical connections are rightly performed.



Verify the biturbo blower input voltage: 9.5 V minimum.



Important: Measure at the biturbo blower pins and when it is working and the water pump is working.



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
	HYDRAULIC	HYDRAULIC
The indicators are ok, but the equipment has low efficiency.	 Inverted electrical connections of water pump/s. Evaporator 9 x 15 cm hose blocked 	 Connect correctly: Red (+) and black (-). 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- Dirty evaporator.	5- Clean and/or replace the evaporator.
	6- Water pump damage.	6- Replace the water pump.
	7- Faulty power and control module.	 Replace the power and control module.
	8- Water Cycle Switch with wrong setting.	8- Reset Water Cycle Switch according to water column height.
	VENTILATION	VENTILATION
	9- Air grilles without weather	9- Put strips to the air grilles.
	10- Blocked air entrances of the	10- Clean the air entrances.
	base of the unit. 11- Faulty blower.	11- Replace the motor of the blower.
When the equipment is on, water enters by the air grilles and/or it spills through the ceiling.	1- Incorrectly oriented holes of the water distributor of the evaporator.	1- Replace the evaporator.
	2- Blocked dual restriction valve.	2- Clean or replace the valve.
	3- Blocked return hoses.4- Blocked PVC filters in the evaporator's tray.	3- Clean hoses or change path.4- Clean PVC filters.
	5- Water column less than 40 cm.	5- Place the tank lower.
	6- Water Cycle Switch with wrong setting.	6- Reset Water Cycle Switch according to water column height.



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The equipment works well, but the fuse burns out continuously.	1- Short-circuit in the blower or in its connections.	1- Replace the blower or repair.
	2- Short-circuit in the water	2- Replace the water pump or repair
	3- Damaged power wire.	3- Locate, repair and seal correctly.
The speeds do not match the display indications or they do not	1- Faulty blower.	1- Replace the motor of the blower.
change.	2- Humidity or water in the power module's terminals.	2- Clean and seal. Check condition of evaporator.
	3- Faulty power module.	3- Replace the command and control module.
Power module burns out.	1- Seized biturbo blower.	1- Replace biturbo blower motor.
Pump cycles are not right ones.	1- Water Cycle Switch with wrong setting.	1- Reset Water Cycle Switch according to water column height.
Blower at its maximum speed cannot be turned off.	1- Faulty power module.	1- Replace the power module. Check the free spinning of the blower.
Blower at its maximum speed - lights cannot be turned off - display is turned off - failure indication.	1- Faulty control and command module.	1- Replace the control and command module.
Blower at its maximum speed (inverted rotation) and lights on.	1- Inverted electrical connections of battery.	1- Connect red wire to + black to -



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
DISPLAY INDICATIONS		
1- -5° (1! 2- ser	- External temperature below 5°C (23°F) or above 70 °C 158°F). - Disconnected temperature ensor wires.	 1- It is normal. 2- Connect.
1- Wa	- Disconnected or damaged vater pump wires or connectors.	1- Connect.
PUMP DISCONNECT 2-	2- False contact between	2- Clean and/or replace the
	water pump terminals.	terminais.
1- Sei	- Disconnection of level	1- Connect.
WATER TANK EMPTY 2-	- Faulty level sensor.	2- Replace the level sensor.
1-	- Water Cycle switch not set.	1- Set the Water Cycle switch.
CONFIGURE		
1- т. – – – – – – – – – – – – – – – – – – –	- Faulty control and command nodule.	1- Replace the control and command module.
PUMP DISCONNECT 2- Wa 1- WATER TANK EMPTY 2- LATER TANK EMPTY 1- CONFIGURE 1- Image: State Stat	 2- False contact between water pump terminals. - Disconnection of level ensor. 2- Faulty level sensor. - Water Cycle switch not set. - Faulty control and command nodule. 	 2- Clean and/or replace terminals. 1- Connect. 2- Replace the level sens 1- Set the Water Cycle statement of the sense of the control are command module.

INSTALLATION MANUAL VIESA INTELLIGENT PLUS

REVISION 003 1-2012



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