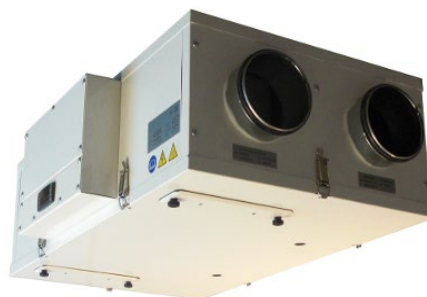


INSTALLATION, USE AND MAINTENANCE

HRP DOMO

Heat recovery high-efficiency



HEAT RECOVERY HIGH-EFFICIENCY

Innova S.r.l.











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Capitale sociale int. vers. € 150.000. - CF/P.IVA 01827470228 - Iscrizione REA nr.180610 - Num. reg. Imprese (TN) 10656

Numero Meccanografico TN025148

www.innovaenergie.com

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1 GENERALITY

1.1.1 INTRODUCTION

This manual has been designed with the aim to make it as easy as possible the installation and management of your plant.

By reading and applying the tips in this manual, you can get the best performance of the product purchased.

We would like to thank you for your choice with the purchase of our product.

Please read this file before making any operation on the unit.

You should not install the unit, you perform on it any work, except they are not thoroughly read and understood this manual all its parts. In particular, it must take all the precautions listed in the manual.

The with the documentation supplied must be delivered to the person responsible 'facility should keep it carefully (at least 10 years) for future assistance, maintenance and repairs.

The installation of the unit must take into account both the purely technical requirements for the proper functioning, as well as any local legislation

force that the requirements specifications.

Ensure the delivery of the unit, there are no obvious signs of damage in transit. In this case, indicate on the delivery note.

This manual reflects the state of the art at the time of commercialization of the machine and can not be considered inadequate because later updated according to new experiences. The Manufacturer reserves the right to update products and manuals, without any obligation to the previous update, except in exceptional cases.

Contact the Sales Department of the manufacturer for further information or technical documentation updates and to suggest any improvements in this manual. All reports received will be strictly scrutinized.

1.1.2 SAFETY RULES



Recall that the use of products that use electricity and water requires the observance of some fundamental safety rules:

- It is forbidden the use of equipment to disabled people and non-assisted
- It is forbidden to touch the appliance barefoot or with wet or damp body
- It is prohibited any operation of cleaning, before disconnecting the appliance from the power supply by placing the mains switch in the off
- It is forbidden to modify the safety or adjustment devices without authorization and instructions from the manufacturer
- Do not pull, detach or twist the electrical cables coming from' unit, even when disconnected from the power network.
- It is forbidden to introduce objects and substances through the intake grilles and air flow.
- It is forbidden to open the doors of access to the internal parts of the appliance, without having first placed the main switch of plant on off.
- It is forbidden to disperse and leave within reach of children of the' packing material as it can be potentially dangerous.
- Observe the safety distances between the machine and other equipment or structures to ensure a sufficient drive access space for maintenance and service operations as described in this booklet.

- The unit power supply must be made with electrical cables with a suitable section of the power unit. The voltage and frequency values must correspond to those indicated for the respective machines; All units must be earthed in compliance with current legislation in the different countries.

1.1.3 SYMBOLOGY

The symbols shown in the following file, allow to quickly provide information necessary for the proper use of the unit.

Symbols on safety



CAUTION

Only authorized personnel

It warns that the indicated operations are important to the operation of the machine safety



DANGER

Risk of electric shock

It warns that failure to observe the precaution may cause electric shock.



DANGER

It warns that failure to observe the precaution may cause risk of injury to exposed persons.



WARNING












It warns that failure to observe the precaution may cause damage to the unit or system.



DANGER

It warns that there is the presence of moving parts and involves a risk of damage to exposed persons

1.1.4 WARNINGS

	The installation of the unit must be performed by personnel qualified according to the regulations in the various countries. If the installation is not performed could become a dangerous situation
	Avoid installing the unit in wet rooms or in the presence of large amounts of heat.
	On the electrical side to prevent any risk of electrocution, it is essential to disconnect the main switch before making electrical connections and any maintenance operation.
	In the case of all 'inside the unit water spills, place the main switch of' plant to "Off", turn off the taps dell ' water and contact technical service
	It is recommended to use a dedicated power circuit; Never use a power supply in common with other devices.
	It is recommended to install an earth leakage circuit breaker; failure to install this device may cause shock electricity.
	For the connection, use a cable of sufficient length to cover the entire distance, without any connection; do not use extension cords and do not apply other loads on nutrition but use a dedicated power circuit.
	After connecting the cables, ensure that the cables are placed so as not to exert excessive forces on the shell or on electrical panels; any incomplete connection of the covers may cause overheating of the terminals.
	Make sure that it meets the ground connection; not to ground the appliance on the distribution pipes. Overcurrents high momentary intensity may damage the unit
	Installations carried out outside of the warnings of this manual or use outside of the operating limits will void instantly check the warranty.
	Make sure that the first operation is carried out by authorized personnel from 'company (see form required initial startup)

1.1.5 CONFORMITY '

The CE marking (present on every machine) attesting conformity with the following European standards:

- machinery Directive 2006/42 / EC
- Low Voltage Directive 2014/35 / EC
- Electromagnetic Compatibility Directive 2014/30 / EC
- Ecodesign 2009/125 / EC

1.1.6 RANGE

	-1-	-2-	-3-	-4-
	20	V	IS	BP

(1) Defines the maximum flow rate

From 200 Mc / 500 Mc / h

2) Type of installation

V: Vertical

H: Horizontal

3) Control Type

E: advanced electronics

I: E

S: Management Card 3v

1.1.7 IDENTIFICATION



-The unit is identifiable through the label on the front panel of the same lower.

-On the package will be an additional nameplate with the unit's model and shipping references.

The plaque on the packaging has no significance for the traceability of the product in the years following the sale.

The excision, the deterioration and the illegibility of the nameplate on the unit, involves great problems in the identification of the machine, in the availability of spare parts, and then in all its future maintenance.

1.1.8 CONSTRUCTION FEATURES

FRAME:	<p>sheet metal self-supporting frame</p> <p>Panels in galvanized steel, painted externally</p> <p>with thermal and acoustic insulation; infill galvanized steel interior thick.</p>
HEAT EXCHANGER :	<p>Exchanger polypropylene cross-flow counter-current with high efficiency.</p> <p>Low freezing and operating temperatures up to -25 °.</p> <p>Very high exchange efficiency.</p>
FANS:	<p>Brushless fans with an electronic motor and modulating control.</p> <p>Very high efficiency and low noise levels.</p>
FILTERS:	<p>F7 filters with low pressure drop.</p> <p>Easily removable positioning in both horizontal and vertical.</p>
FREE COOLING:	<p>Free cooling carried out inside the unit with a large air passage and with motorized damper actuator.</p>
ELECTRICAL CABINET :	<p>VERSION S: Complete control panel for management card 3 fan speed, antifreeze and manual control of the free-cooling. Control via digital contacts.</p> <p>VERSION I: Complete control panel management tab 4 fan speed, antifreeze, automatic bypass, temperature probes, management of post-heating batteries and automatic signaling dirty filters. Control Panel mandatory for the operation of the unit with capacitive touch for mounting on box 503 or wall;</p> <p>VERSION E: Electric panel on board unit with microprocessor and dedicated adjustment. Management of modulating fans, viewing of internal machine temperature probes, dirty filters timed management, management of the free-cooling with temperature probes. Large graphic interface with configuration menus and multi-language user menu. Possibility of 2 types of keyboards connection: simple or evolved</p>
EFFICIENCY:	<p>Thanks to the special construction and its components the unit is able to achieve recovery efficiency greater than 90% .In the winter and summer seasons there is a considerable energy recovery of air introduced into the environment renewal.</p>

1.1.9 DESCRIPTION OF OPERATION

The unit is a ventilation system with heat recovery by the following characteristics and features:

It promotes a healthy ventilation inside of the housing, allowing the correct air change of the environments and extracting excess moisture and odors;

allows a considerable energy saving for heating thanks to the efficiency of the heat recovery greater than 90%;

The class F7 filters, low pressure loss, guarantee the outside air filtering, fundamental for people with allergies;

the electronic speed control motors, guarantee a low consumption of electricity;

thermal and acoustic insulation;

Inspection and maintenance of easy access by panel fasteners;

antifreeze protection;

control unit with display;

predisposition for easy connection to the network and the remote control;

Also available with integrated bypass

1.1.10 DELIVERY STATE

The supply includes:

Full recovery unit of fans installed inside the unit

countercurrent heat exchanger in polypropylene pre-inserted inside the unit;

2 F7 class filters pre-inserted inside the unit;

Electrical box with predisposition connection terminal;

4 ceiling mounting brackets (H version)

wall mounting bracket (Version V)

exhaust kit condensate composed by siphon and internal threaded pipe;

labels / stickers (safety pictograms, identification air attacks, CE marking ...) already positioned on the unit.

Installation, use and maintenance

1.1.11 REQUIREMENTS FOR STARTING



Before starting make sure there are no foreign objects inside the unit.

Check the hardware of the closing panels and doors of inspections.

If there are no channels installed on one of the aeraulic 4 outlets, provide adequate protection to install a network.

Check the power supply and the grounding of the unit.

1.1.12 REMOVAL AND DISPOSAL



Do not disassemble or dispose of the product yourself. The disassembly, demolition, disposal of the product must be performed by authorized personnel in accordance with local regulations.



2 INSTALLATION

2.1.1 INSTALLATION CONDITIONS



The unit must be installed according to national and local rules governing the use of electrical devices and according to the following guidelines:

install the unit within residential buildings with ambient temperature between 0 ° C and 45 ° C;

avoid areas in close proximity to sources of heat, steam, flammable and / or explosive and particularly dusty areas;

install the unit in a place not subject to frost (the condensation water must be discharged not frozen, at a certain inclination, using a siphon);

not install the unit in areas with a high relative humidity (such as the bathroom or toilet) to avoid condensation on the outer surface;

choose an installation place where there is enough space around the unit for the air ducts and connections in order to perform maintenance;

the consistency of the ceiling / wall / floor where the unit will be installed must be adapted to the weight of the unit and does not cause vibrations.

In the environment chosen for the installation must be present:

connections of the air ducts;

single-phase electrical connection 230V

connection for the condensate discharge.

The unit is an integral part of a balanced ventilation system, with which the contaminated air is extracted from the kitchen, bathroom or any other local and introducing the same volume of fresh air in the living room or in the bedrooms. Gaps under the doors ensure a good circulation of air flow inside the home: make sure these gaps are never obstructed, such as para drafts or carpets, otherwise the system will not work optimally.

The simultaneous operation of the unit and a natural draft boiler (eg. Open fireplace) may cause a depression in the environment, which may occur due to a backflow of exhaust gas into the environment.

2.1.2 POSITIONING UNIT '

VERSION H - Ceiling mount

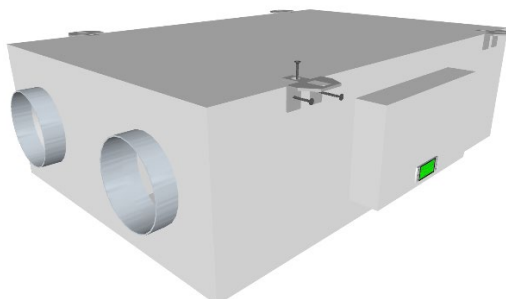
For ceiling mounting unit, you must:

Place the 4 mounting brackets on the rear side of the unit and fix it with the screws supplied, after having carried out the holes with a drill (the holes must be drilled on the frame);

Attach to the ceiling unit, via the brackets, using appropriate anchoring systems (dowels, threaded rods, chains ...) and check the leveling with the aid of a spirit level.

Ensuring sufficient space for the performance of maintenance tasks: it must be guaranteed the opening of the cover of the unit (from the bottom).

Not mount the unit with the hips in direct contact with the walls to avoid possible noises from contact, insert strips of rubber or neoprene in this case.



Ceiling mount

Brackets for ceiling mounting

VERSION V - Wall mounting

For mounting the unit to the wall it is necessary to:

install the drain kit condensates on the bottom panel: remove the plugs, insert the internal connection pipe and screw the siphon outside;

Place the unit on the ground

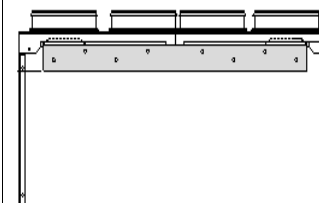
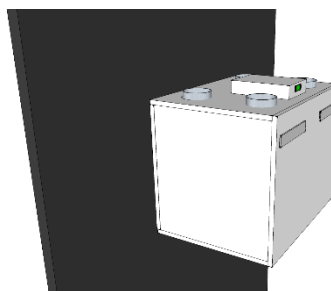
positioning the mounting bracket supplied to the wall through the use

Suitable plugs or anchoring systems.

Position the unit above the bracket and adjust the two spacers to ensure a correct support on the vertical surface.

Ensuring sufficient space for the performance of maintenance tasks: it must be guaranteed the opening of the unit's front panel

Not mount the unit with the hips in direct contact with the walls to avoid possible noises from contact, insert strips of rubber or neoprene in this case.



Wall mounting

Bracket for wall mounting

2.1.3 DRAIN CONNECTION



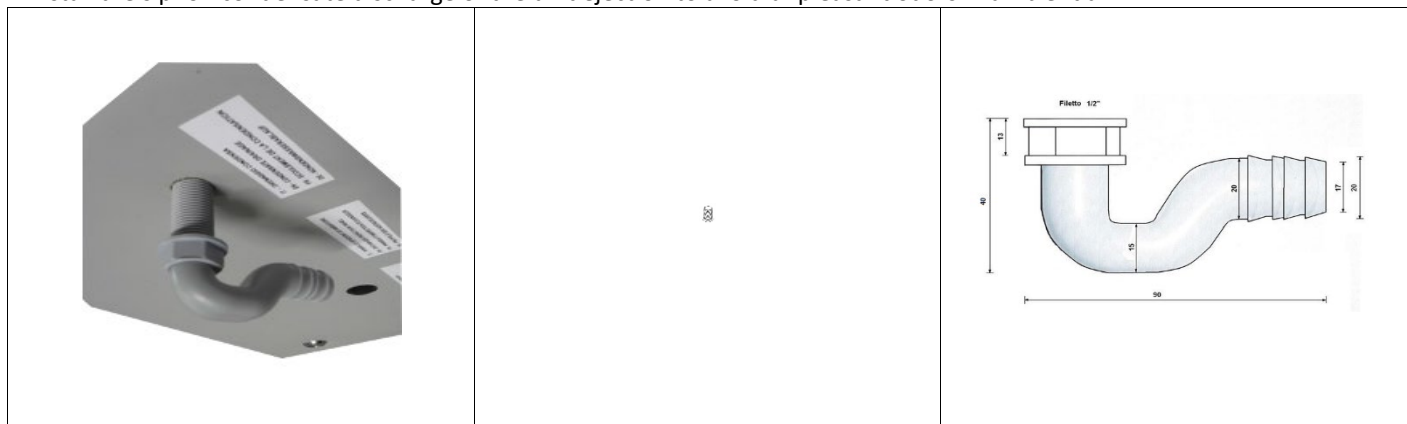
Because of the heat recovery system (the hot exhaust air is cooled by placing inside the heat exchanger), the moisture contained in the indoor air will condense inside the unit.

For the proper functioning of the heat exchanger, it is therefore necessary to connect a condensate drain to the hydraulic system (exhaust) of the house. In addition, to enable the correct outflow of the condensate water, and avoid air eddies, the condensate drain must always be provided OF THE SPECIAL siphon supplied (on version V) units; on the H versions the installer to install a siphon;

To install the exhaust condensation adhere to the following standards:

- give a slope of at least 2% to the exhaust pipe;
- provide for the possibility to disconnect the drain pipe for maintenance (in particular in the case of ceiling installation);
- make sure that the discharge end of the tube is at least below the water level of the siphon;
- make sure that the siphon is always full of water.

Install the siphon condensate discharge of the unit ejection to avoid unpleasant odors in ambient air



3 AREALICI CONNECTIONS

3.1.1 GUIDELINES AREALICI



The unit is equipped with 4 male circulated attacks of different diameter depending on the size: for optimum operation.

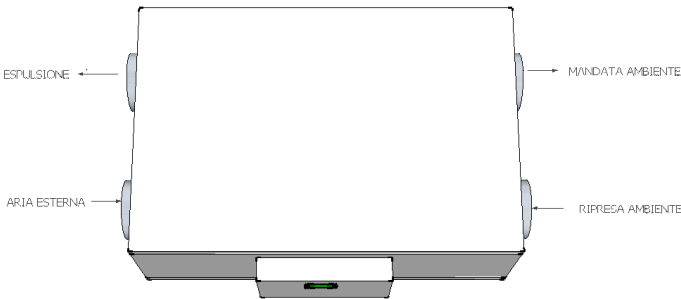
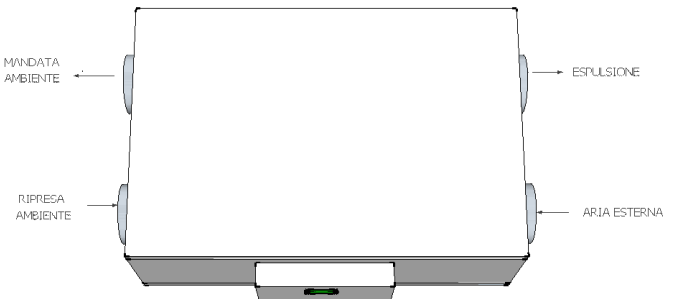
For the correct connection of the air ducts, refer to the following diagram and the places adhesives unit.

Table diameters links Aerodynamic units

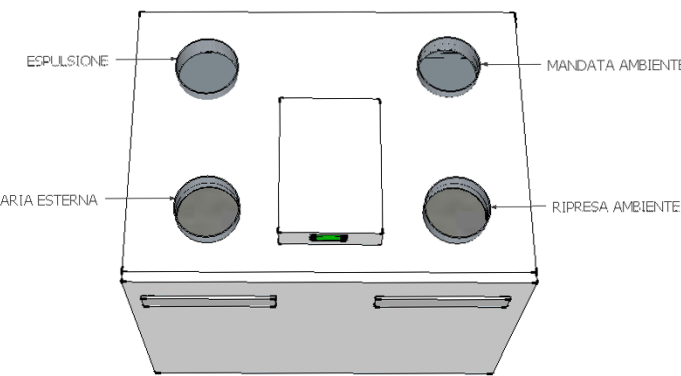
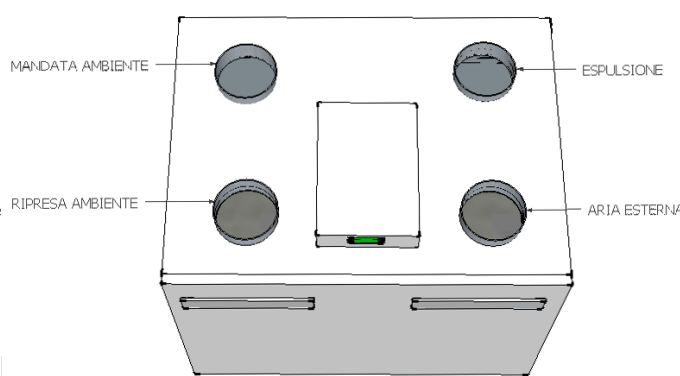
Size	20 H	20 V	30 H	30 V	40 H	40 V	50 H	50 V
Ø mm	125	125	160	160	160	160	160	160

We recommend installing at least 500mm of flexible tubing to avoid dragging the vibration or noise caused by installation.
According to the plant in which the unit must be installed, it will be possible to suitably orient the four aeraulici attacks.
Below any possible configurations:

CONFIGURATION VERSION HORIZONTAL H

	
H1	H2

CONFIGURATION VERSION HORIZONTAL V

	
V1	V2

UNITS 'VIEWS ARE LISTED ABOVE AND MUST BE ORDERED WITH THE DESIRED CONFIGURATION

4 ELECTRICAL CONNECTIONS

4.1.1 GENERALITY



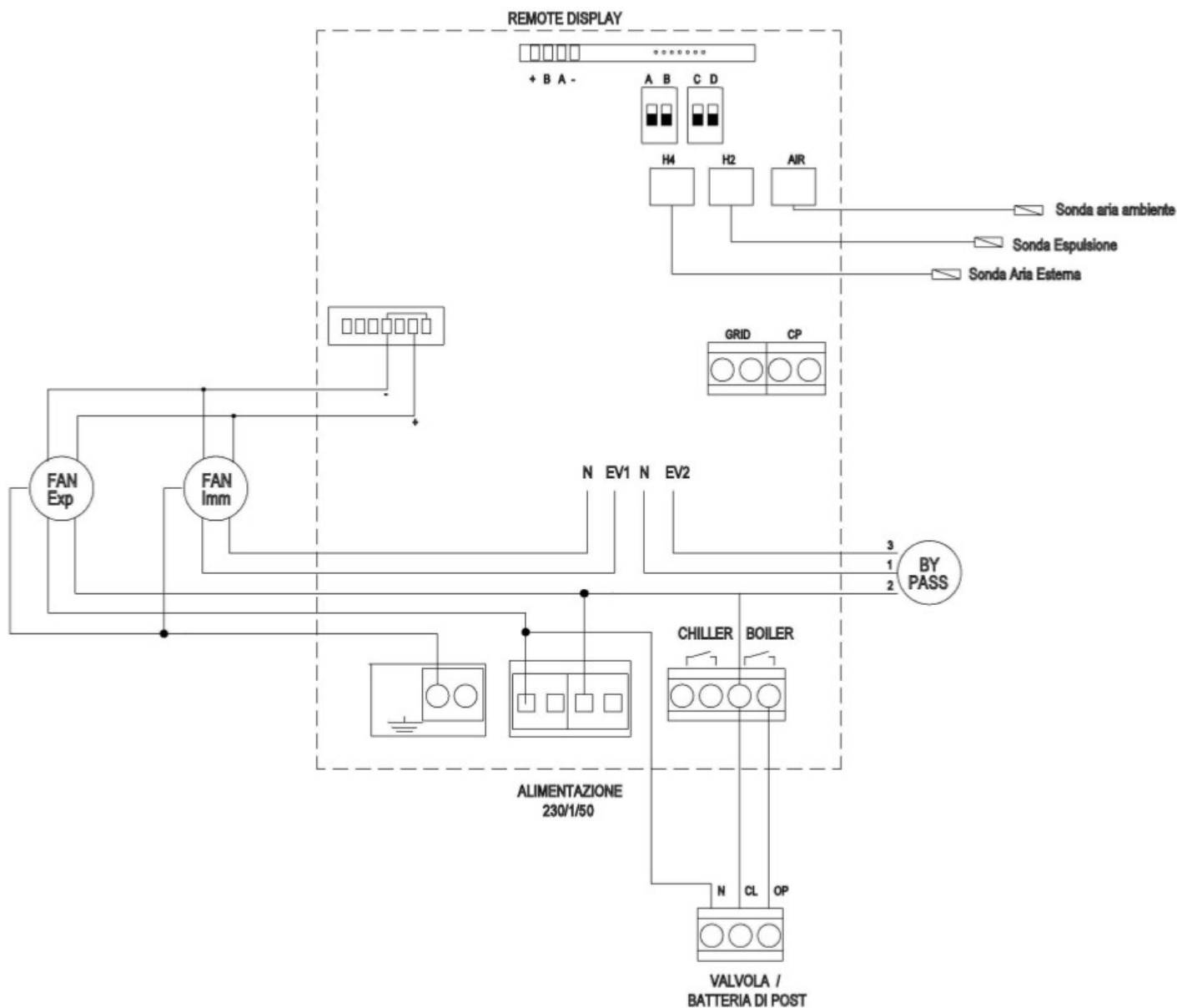
- First starting any operation to make the electrical connection to make sure that the unit is not electrically supplied
- Perform electrical connections required exclusively by consulting the wiring diagram attached to this manual.
- Install a suitable interrupt and protection device to exclusive service differential unit.
- it is essential that the unit is connected to an efficient earth plug. The manufacturer refuses all responsibility for the non-observance of this precaution.
- Make that the electrical components selected for the installation (main switch, circuit breakers, cables and terminal section) are suitable for installed unit electrical power and which take account of the compressor inrush currents as well as the maximum attainable load. THE related data are indicated on the wiring diagram and on the unit nameplate
- E 'forbidden to enter the electrical wiring in the unit except where specified in this booklet.
- Use cables and electrical conductors of appropriate sections and comply with current regulations of the various countries.
- Avoid absolutely to pass the electric cables in direct contact with pipes or components within the unit
- Verify after the first moments of operation the tightening of the screws of the power terminals

Table for the dimensioning of the power line

Size		20 H	20 V	30 H	30 V	40 H	40 V	50 H	50 V
Maximum current absorbed	TO	0.74	0.74	1.6	1.6	1.6	1.6	3.5	3.5

4.1.2 WIRING UNIT

The version I



CONNECTIONS BY THE CUSTOMER

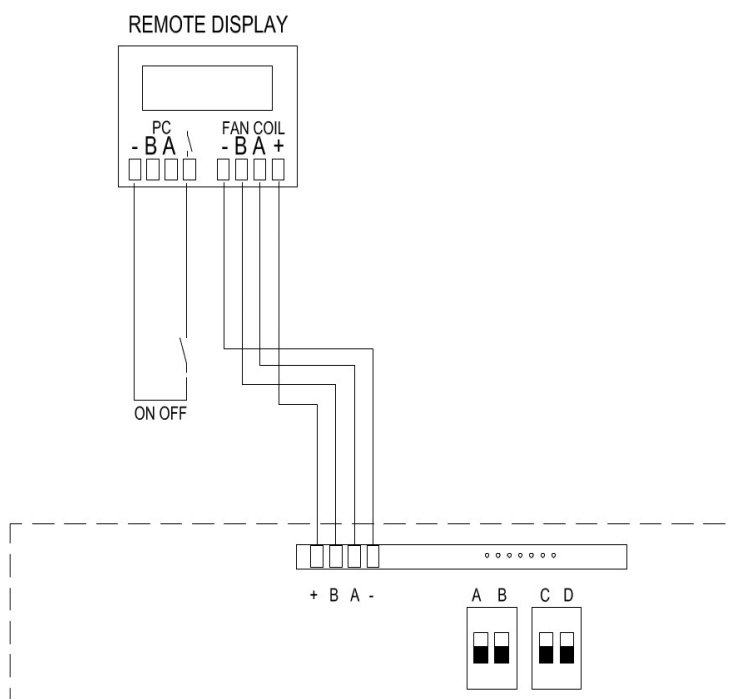
GRID	Hygrostat / air quality regulator	Contact closed / active function
CHILLER	Chiller / generators Activation	Clean Contact (Hot / cold activation required)
N - CL - CP	Water valve / battery post	Contact voltage (220v)
REMOTE DISPLAY	Remote control (4-wire)	
ON OFF REMOTE (ON DISPLAY)	ON OFF remote contact present on the remote display	Contact closed / unit OFF



Link remote panel CNV

The -I- Version tab, provides a capacitive touch type remote control for the management of all functions of the unit and arranged for installation on wall or outer box 502;

For the connection use Shielded cable / braided from 0.75 / 1mm to 4 conductors;



CNV Remote Panel

Auxiliary Connections

The card allows the operation of the brushless EC fan through a remote command described above;

They have been implemented in some auxiliary functions such as the tab connecting the controllers and the management of a battery / post valve;

CONNECT DISPLAY TO CONTROL MORE the unit'

The CNV panel provides for the control of multiple units; You can connect up to 30 units to be managed by the one remote control panel;

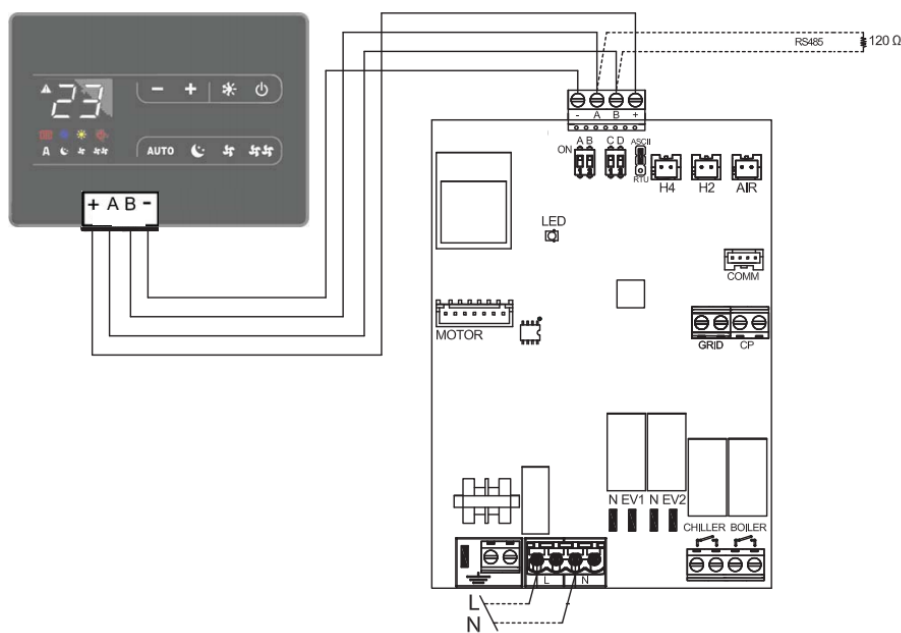
They will have to be connected in series connection with enter and exit on the cards of the individual units;

The network is an RS485 network; Use shielded cable 2-wire with a maximum length of 150m;

-Perform a path so as to minimize the length of the leads;

-Finish the line with a resistance of 120 Ω in each room;

- do not allow connections to "star"; - the connection with the RS485 cable is polarized,



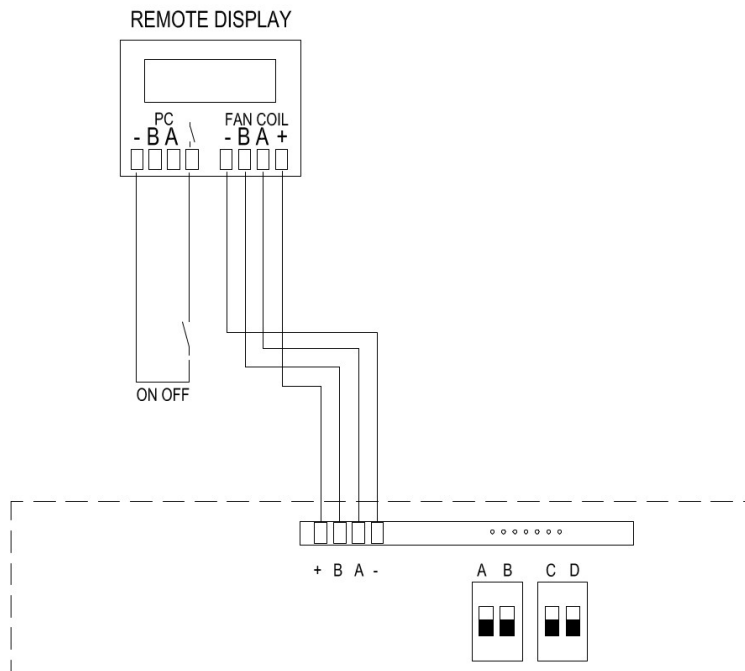
LINK ON OFF REMOTE

The CNV remote panel provides an ON OFF command with which the unit can be connected through a clean contact to a device for the switching on / off remote unit such as a switch or a timer

The logic includes:

Contact closed: unit OFF

Contact open: Unit ON



CONNECTION TO ELECTRONIC CONTROL QUALITY AIR SQA

Is provided the connection of a regulator for the air quality of the digital type.

On the controller there are three levels of 'air quality:

-Low / Medium / High.

Select via jumpers placed on the regulator the desired level of comfort.

The connection is made on terminals GRID

as indicated on the circuit diagram

Note: Interpose a relay to 230v between the output the regulator and the input unit.



QUALITA'
ARIA



GRID

Connecting Regulator Air Quality

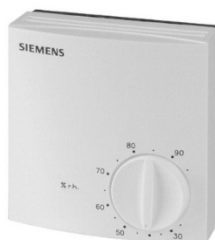
CONNECTING ELECTRONIC CARD CONTROLLER HUMIDITY 'UMR

Is provided the connection of a regulator for the ambient humidity.

On the controller, is provided for the adjustment knob through which it will be possible to choose the desired level of humidity.

The connection is made on terminals GRID

as indicated on the circuit diagram



UMIDOSTATO



Grid

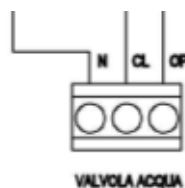
Connecting Regulator humidity

Note: You can connect both the air quality regulator is the humidity regulator in parallel on the same terminals;

CONNECTION VALVE / AFTER BATTERY

The unit provides for the control of a valve / electric battery post, through the 230v command provided on the card;

- COMMON N-
- CL LIVE FIXED FOR CONTROL VALVE 3 POINTS
- CP CONTROL ON OFF VALVE POINTS 2-3



Connection Valve Water / battery post

LINK GENERATOR / POST OF BATTERY

The unit provides the command of a generator or a battery post, through the clean contact terminal;

Contact closed with active request;



Link generator / battery post

5 INSTALLATION EXTERNAL BATTERY

5.1.1 ELECTRIC BATTERY



The unit can be equipped with an electric battery that can be installed in the following mode.

The version I, directly controls the electric battery through the Chiller contact, present on the card;
Disable or turn up the summer set not to call in the battery in summer mode;

Battery with pre-heating function

The battery has the defrost function unit and antifreeze protection.

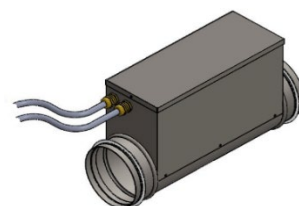
Installation:

mount the heater on the conduit of "fresh air";

connect the heater to the mains;

set the temperature on the internal thermostat to 2 ° C;

The battery in any case must be installed with the lid upwards in order to avoid malfunctions of the safety devices.



Battery with post-heating function

The battery, in winter, is designed to heat the air in the inlet in the home to bring comfort to the required temperature.

Installation:

mount the heater on the conduit of "placing";

connect the heater to the mains;

set the temperature on the internal thermostat to the desired temperature (eg. 18 ° C);

The battery in any case must be installed with the lid upwards in order to avoid malfunctions of the safety devices.

Electric battery

5.1.2 HYDRONIC BATTERIES



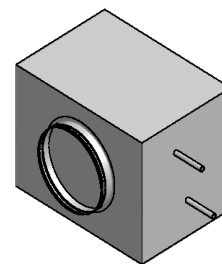
As an alternative to electric batteries the unit can be equipped with a battery capable of hydronic heating / cooling the air entering the building thus allowing to bring it to the set temperature. The hydronic battery in cooling mode will be able to provide for the dehumidification of the air injection.

The battery is not handled directly by the unit in versions E and S, but must be connected to an external control which regulates the operation (thermostat or humidistat) that will enable the circulation of water within the same. For battery installation will be checked the use and maintenance of the same

The version I, instead controls the battery through the control valve (command to 2 points) and through the clean contact Chiller that can be used to activate the generator;

Installation:

- mount the battery on the conduit of "placing";
- connect to the battery in the water pipes;
- connect the condensate drain.



hydronic Battery

6 COMMISSIONING AND METHOD FOR USE

6.1.1 GENERALITY



To ensure the "discharge" moisture that is created naturally within the dwelling, the unit must operate continuously at least at a reduced speed (speed 1). If you turn off the ventilation unit, you might encounter condensation inside the machine and inside the building with possible damage due to moisture.







The operation of the unit and the possible changing of the factory settings must be carried out only by qualified personnel (authorized installer).

6.1.2 WORKING VERSION -I-


The unit is completely manually controlled way by the user, through the touch command to CNV wall;
there is the possibility of connecting the sensors humidity regulator and air quality;




switch 3V

Below are given the keys present on the main form:	Meaning of the main display keys:			
		Allows the ignition / keyboard unit is turned off		Button for changing the set temperature
		Keys for selecting the ventilation speed: Silent / Nominal / maximum		Key for summer / winter
		Key to the operation nominal speed and sensor		ALARM signal
	Viewing the main mask keys			


6.1.2.1 TURNING ON THE UNIT POWER OFF

<p>-The unit can be enabled and disabled through the On / Off button on the display.</p>	
	Power On / Off Unit


6.1.2.2 EDIT MODE 'FANS AND FUNCTION BOOSTER

<p>-On the display there are the keys for the selection of the desired drive speed; Whenever the speed is selected, after 1 second has the actual fan speed variation.</p> <p>-The selectable speeds are three: Nightly (minimum speed) - nominal (average speed) - maximum (maximum speed)</p>	
	Fan speed management


6.1.2.3 FUNCTION SPEED 'NOMINAL

<p>-Pressing the auto key, the unit will operate at rated speed taking active control of the input sensors; If the humidity controller or air quality, require it, the unit will increase the speed, the speed sensors; The input is a digital input to connect a clean contact;</p>	
	AUTO Function

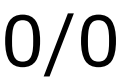
6.1.2.4 CHANGING SEASON

<p>-The change of season on the version I must be made from the keyboard; Hold for 3 seconds the season change button to change the status of the season; The operation must be compulsorily carried out to activate the logical correct: In winter the frost protection and in summer the bypass function; Logic symbols: SUN - WINTER SNOWFLAKE (SUMMER)</p>	
	Changing Season

6.1.2.5 LOCK

<p>local lock is activated by simultaneously pressing the + and - keys to 3/2 of all keys, confirmation is given by the display of the written bL. All adjustments are inhibited to the user and at the pressure of any key appears bL. By repeating the sequence is obtained by unlocking the buttons.</p>	
	key Lock

6.1.2.6 ADJUSTING BRIGHTNESS 'PANEL

<p>With Ignition is off hold down the + button for 5 seconds until the written 01. With the button - set the value to 00 and wait 20 seconds to verify the correct setting.</p>	
	Dimming
	setting time slots

7 MAINTENANCE

To always ensure the proper and optimal operation of the unit, it is necessary to periodically perform all maintenance interventions.

7.1.1 CLEANING OR REPLACING FILTERS

To replace the filters, or make them clean, proceed as follows:

disconnect the power supply unit;

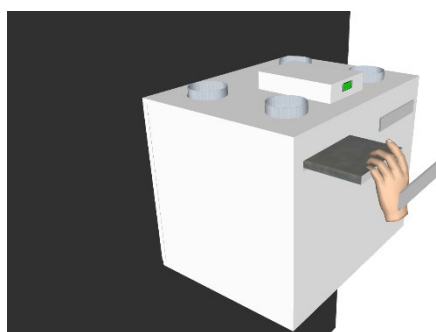
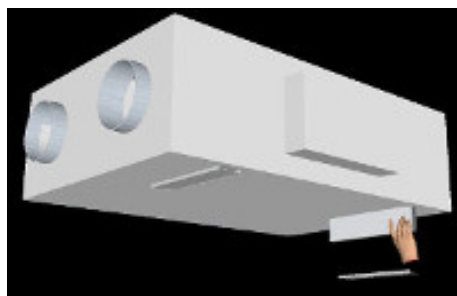
open the lids of the filters through the dedicated knobs;

remove dirty filters;

Gently insert the new filters;

close the lid with dedicated knobs;

If the conditions of the filters allow you can proceed to their cleaning using a vacuum cleaner or a low-pressure compressor.



filters for extracting Vista

7.1.2 CLEANING THE COOLER

the recommended to proceed with the verification of the state of the heat exchanger at each cleaning / exchange filters and proceed to its cleaning if deemed appropriate. This operation must be performed only by qualified personnel (installer).

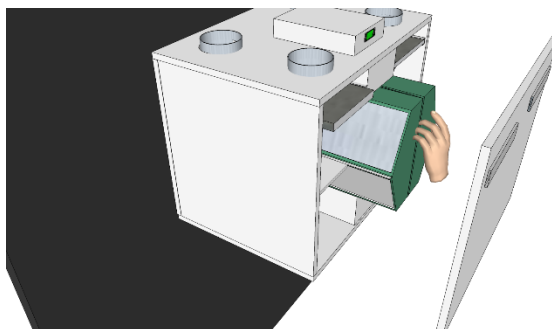
To clean the heat exchanger proceed as follows:

remove power to the unit

in the case of ceiling installation, disconnect the drain pipe;

open the cover by releasing the fixing hooks and removing the screws;

extract the heat exchanger with the aid of the cable tie / green strap;



proceed to clean very gently using a vacuum or low pressure compressor (to prevent dirt from entering into the heat exchanger, wipe in the direction opposite to that of the air flow);

insert it back into place the heat exchanger;

close the lid locking it into position blocking the retaining hooks and inserting the screws;

Warning! Never touch the exchanger fins, the heat exchanger handle holding only on the sides closed.

exchanger for extracting Vista

7.1.3 GENERAL CLEANING UNIT '

It is advisable to occasionally proceed to the verification and eventual cleaning of the fans, the condensate drain and the internal walls of the unit. These operations must be carried out only by qualified personnel (installer).

To perform the above operations proceed as follows:

remove power to the unit

in the case of ceiling installation, disconnect the drain pipe;

open the cover by unlocking the fastening hooks on it;

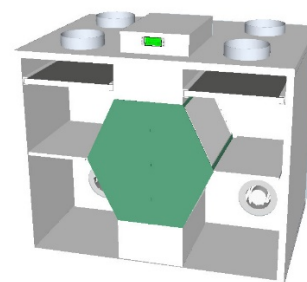
proceed to the verification and eventual cleaning of the fans, the condensate drain and the walls;

close the locking lid with the fastening hooks on the drive

connect the power cord and turn the unit from the side panel.

For cleaning, it is possible to use a vacuum cleaner, a rag moistened with water, a soft-bristled brush or a low-pressure compressor.

Warning! On the blades are small metal clip for balancing the blades, DO NOT remove them.



Views units for general cleaning

8 ALARMS

8.1.1 GENERAL INFORMATION

In case of problems or failures, take note of any error code appeared on the display of the electronic control unit or the remote control, make a note of the model and the serial number of unit you have (present on the nameplate attached on the side of the unit) and contact your installer.

8.1.2 PROBLEMS WITHOUT ERROR INDICATION ON DISPLAY

PROBLEM	CAUSE	REMEDIES
The fans are not active	<ul style="list-style-type: none"> -Power supply is not inserted -Not works of the fan speed control device incorrect electrical -Links -Ventilatori in thermal protection 	<ul style="list-style-type: none"> -Make the power supply on the fan -Verify of the fan speed control device -Check that the fan is not overheated and thermal protection
Air flow rate or pressure insufficient helpful	<ul style="list-style-type: none"> -Filters clogged -Speed Insufficient rotation -Tubazioni or clogged exchanger 	<ul style="list-style-type: none"> -Clean the filters -Increase the speed of rotation -Clean pipes or heat exchanger
Insufficient exchanger Yield	<ul style="list-style-type: none"> -Alette exchanger clogged 	<ul style="list-style-type: none"> -Clean the surfaces of the exchanger
Excessive vibration and noise	<ul style="list-style-type: none"> -Installation incorrect unit -Installation incorrect piping -Squilibrio of fan impeller 	<ul style="list-style-type: none"> -Check brackets and hardware unit -Verify brackets and hardware piping -Verify status of fan impellers
Water leakage from the unit	<ul style="list-style-type: none"> -Drain clogged condensation -Sifone not properly installed 	<ul style="list-style-type: none"> -Clean the condensate drain -Check the correct installation of the siphon
difficult start	<ul style="list-style-type: none"> -Voltage of too low -Pair insufficient motor 	<ul style="list-style-type: none"> -Make sure that the supply voltage is not below the 10% of the rated voltage -Food the unit with partially closed shutters so as to reduce the engine torque. In case of departure correct, replace the motor with a plus.

8.1.3 TABLE ALARMS REPORTED TO DISPLAY - VERSION I -

Below is a table of reported unit malfunctions, in electronic versions I, from the remote display.

CODE	DESCRIPTION	CAUSE	REMEDY
E1	Alarm recovery Probe	Rupture and failure of the probe reading	Check the connection of the probe or replace it
E2	fan Alarm	Fan connector or absent feedback signal	Check the connection of the card connector to the fan
E3	Alarm ejection probe H4	Rupture and failure of the probe reading	Check the connection of the probe or replace it
E5	Alarm Outside air sensor H4	Rupture and failure of the probe reading	Check the connection of the probe or replace it
NO LINK	communication alarm	Check the green LED on the board; The LED indicates the presence of power on the card;	Check the condition of indicator LEDs on the board
ACL	dirty filter alarm	Hours of operation reached for dirty filter (default = 0)	Check the the on off button to reset the report of the filter and hold;

NOTE

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.

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Technical Assistance Center

The data contained herein may be modified by the manufacturer without notice.