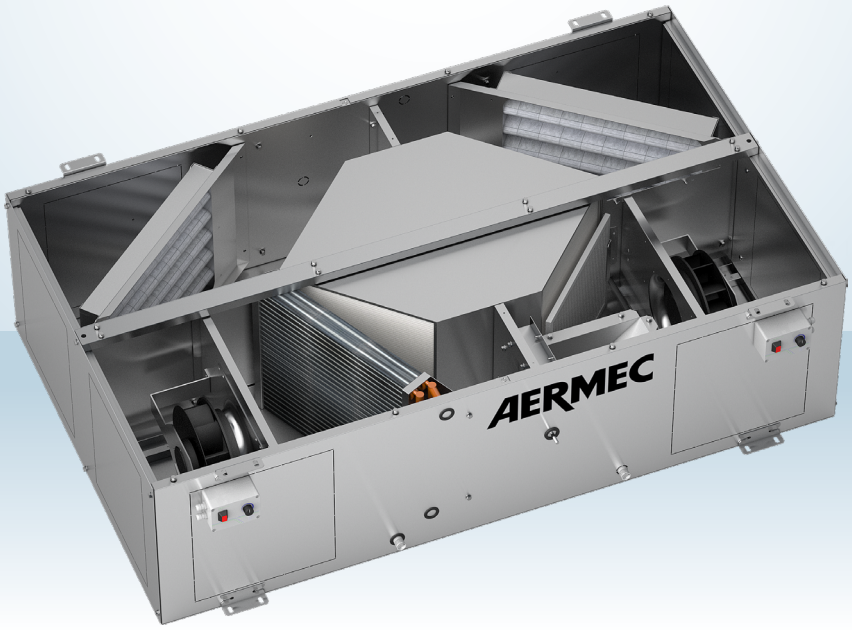
AERMEC



Installation and Maintenance Manual

RPLI

EN

CE

19.03 - 6180341_04

TRANSLATION FROM ORIGINAL

Dear customer,
Thank you for choosing an AERMEC product. It is the fruit of many years of experience and special design studies and has been made of the highest grade materials and with cutting edge technology.
The quality level is being constantly monitored, so AERMEC products are synonymous with Safety, Quality and Reliability.

The data may undergo modifications considered necessary for the improvement of the product, at any time and without the obligation for any notice thereof.

Thank you once again.
AERMEC S.p.A

INDEX

IDENTIFICATION OF THE UNIT

The units can be identified through the technical plate. It contains the product's identification data and technical specifications.
Always indicate the serial number on the plate for future reference and for any communication with the supplier.
Furthermore, each package comes with its own plate featuring the weight and other useful traceability information.

RATED DATA
The units are fitted with adhesive plates summarising the main technical specifications.

CONFIGURATOR

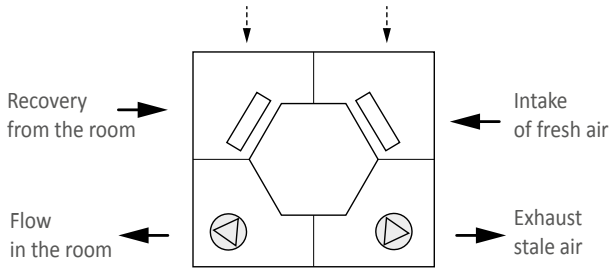
Field	Code
1,2,3,4	RPLI
5,6,7	**Size**
	030-050-070-100-140-200-300-400
8	**Version**
	L Low useful stati pressure
	P High useful stati pressure
9	**Installation**
	° Horizontal
10	**Flow orientation**
	° Type 1
	X Type 2
11	**Heat exchanger**
	° No internal coil
	W Water coil (1)
	E Post-heating electric internal coil

(1) Also to be used with cooled water only for sizes 030-100 including, for sizes 140-400 only be used with hot water.
Example of commercial code: RPLI030 (Basis heat recovery unit) **RPLI030W** (heat recovery unit with water coil), **RPLI030X** (heat recovery unit with flow orientation type 2).
Each option is represented in a unique way from all the others, so it is not necessary to indicate (within the commercial code) the standard options (identified by °).

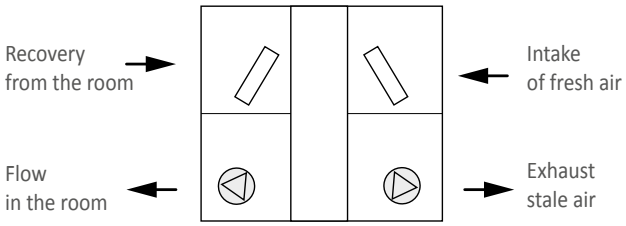
AVAILABLE ORIENTATIONS

TYPE 1 Standard

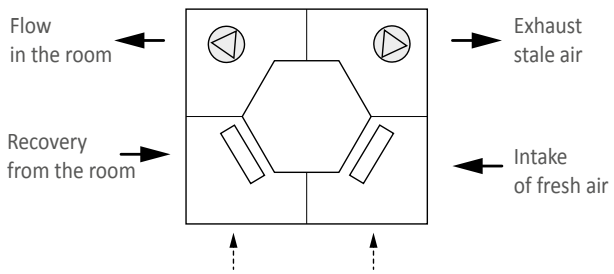
Sizes from 030 to 100

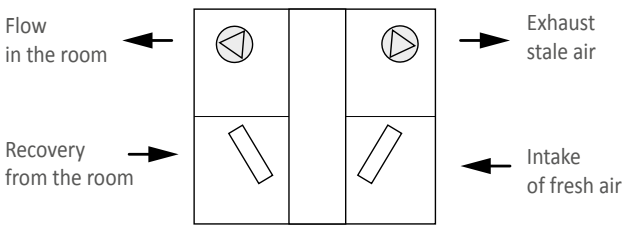


Sizes from 140 to 400



TYPE 2 to be requested upon ordering





GENERAL STANDARDS

The units were built in accordance with the technological standards and safety legislation in force.
All the precautions given in this manual must be observed to avoid damage to property and harm to people. Any faults must be repaired promptly by qualified personnel. The safety rules set down by the manufacturers of each component must also be observed.

USE OF THIS MANUAL
This manual provides important information on safe and proper use of the unit. It is intended for installers and maintenance technicians and all technical personnel responsible for installation, maintenance and adjustment of the unit, with particular regard to the safety rules. It must always be kept available in the place of installation.
This manual provides information on:
Transport and storage
Installation and assembly of the base units
Installation and assembly of the accessories
Electrical connections
Maintenance
Disassembly and decommissioning.

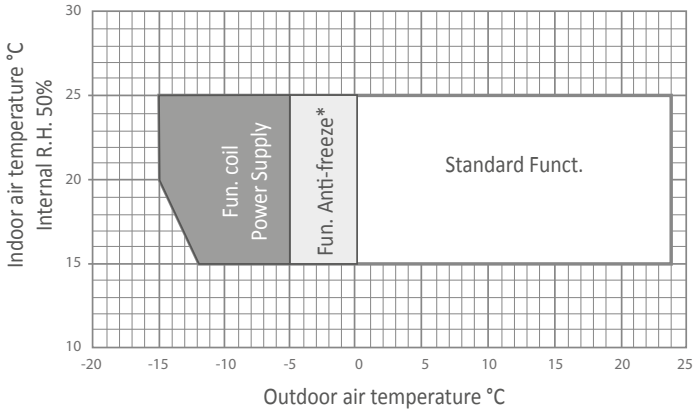
PROPER AND IMPROPER USE OF THE UNIT
The units are suitable for air handling for the following purposes:
air filtration with normal contamination levels
air heating and/or cooling (if appropriate accessories included)
air humidification and/or dehumidification (if appropriate accessories included)
heat recovery
combination of the above.
Proper use of the unit includes complying with the standards contained in this manual as well as the maintenance procedures and frequency.
Any use different than that listed above is considered improper. If necessary, contact the competent engineering department to verify whether the unit is suitable for different uses. The manufacturer will not be held liable for personal harm and/or property damage resulting from improper use of the unit.
The unit must never be used in the following situations:
in explosion risk areas, unless authorisation has been issued for the use in question
in areas with strong electromagnetic fields
in aggressive environments which could attack the components or cause corrosion.

ALTERATIONS AND CHANGES
The unit must not be altered and/or converted in any way. Any unauthorised alterations renders the warranty and CE conformity certification null and void.

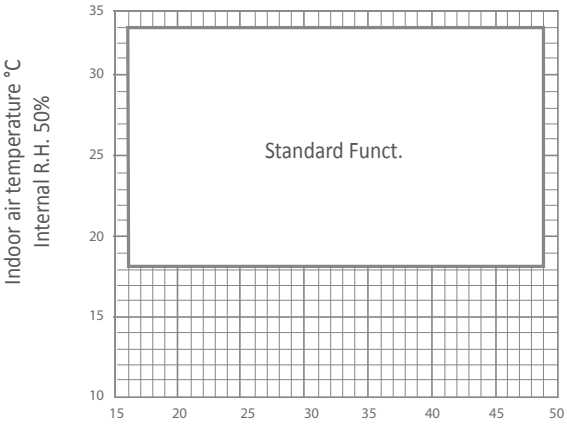
SPARE PARTS
Use only original spare parts. The supplier is not liable for harm to people and/or damage to property due to the use of third party spare parts.

OPERATIONAL LIMITS

Correct operation is not assured following fires, high winds, earthquake and other natural phenomena of exceptional intensity. If the unit is used in an aggressive atmosphere and/or with aggressive water, please consult with the head office. In the event of proximity to the sea or ocean, the impact of salty air must be taken into account when selecting the unit.



Wet-bulb temperature of indoor air 13.7 °C
* Borne by the customer



Outdoor air temperature °C

RECEPTION, HANDLING AND STORAGE

RECEPTION

- Upon reception, you must make sure that:
- the content of the delivery matches that declared on the delivery note, in particular that there is no component and/or accessory missing, otherwise immediately inform the marketing department or your local dealer
- packaging is not damaged and the unit and/or accessories have not been damaged during shipping. Otherwise, immediately inform the marketing department or your local dealer.

HANDLING - GENERAL RULES

For correct and safe handling, proceed as follows:

- do not place the units on top of each another (stacking the units is not allowed unless there has been a specific request by the marketing engineering department and the supplier has issued his approval)
- transport the units individually.

HANDLING - LIFTING WITH CRANE

For correct and safe handling, proceed as follows:

- the unit and its accessories must only be shipped inside the original packaging, which must be removed just before the unit is installed
- the unit must only be handled by means of the intended hooking points, by cords or chains the same length (unless indicated differently)
- the cords and chains must not be knotted and must not come into contact with sharp corners
- the unit must not be handled with sudden movements
- use only handling devices with sufficient loading capacity
- the hooking points intended for vertical handling must not be used to permanently suspend the unit
- do not handle other loads together with the main unit
- to keep the unit from slipping, pay attention to movement of the centre of gravity while lifting it.

HANDLING - LIFTING WITH FORKLIFT TRUCK

For correct and safe handling, proceed as follows:

- Always use the supplied base (pallet or other material) as the support surface for shipping
- the unit must not be handled without the support base if the profiles are not sufficiently protected and reinforced
- the distribution of the load and the centre of gravity must be taken into consideration.

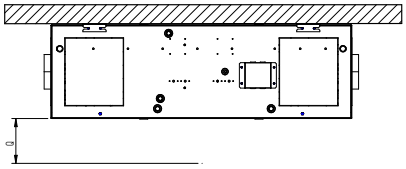
STORAGE

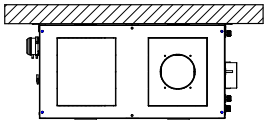
During storage of the unit, proceed as follows:

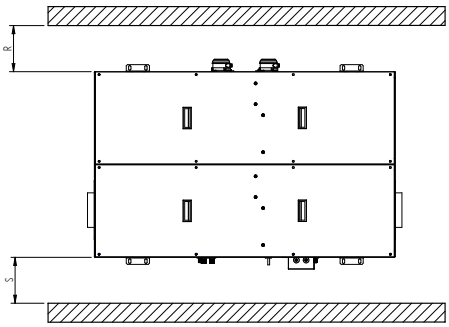
- remove the packaging just before installing the unit
- if the unit is stored without its outer packaging, protective measures must be taken against dirt and dust build up
- always set the unit on a flat surface
- the unit can be kept in a dry environment without condensation, at temperatures ranging from -20° C to +40 °C.

INSTALLATION CLEARANCES

RPLI 030 - 100

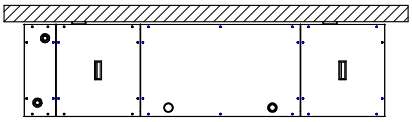


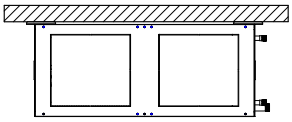


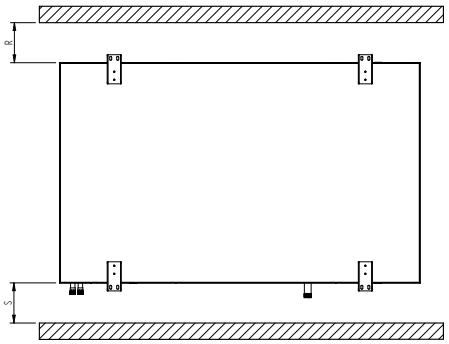


	RPLI030-050 ROUTINE	RPLI030-050 EXTRAORDINARY	RPLI070-100 ROUTINE	RPLI070-100 EXTRAORDINARY
Q	450	600	450	600
R	500	500	500	500
S	500	500	500	500

RPLI 140 - 400





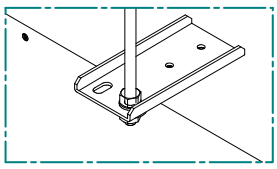


	R - ROUTINE	R - EXTRAORDINARY	S - ROUTINE	S - EXTRAORDINARY
RPLI140	500	500	500	1000
RPLI200	700	700	500	1000
RPLI300	500	500	500	1000
RPLI400	500	500	500	1500

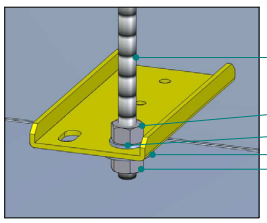
SUSPENDED CEILING INSTALLATION

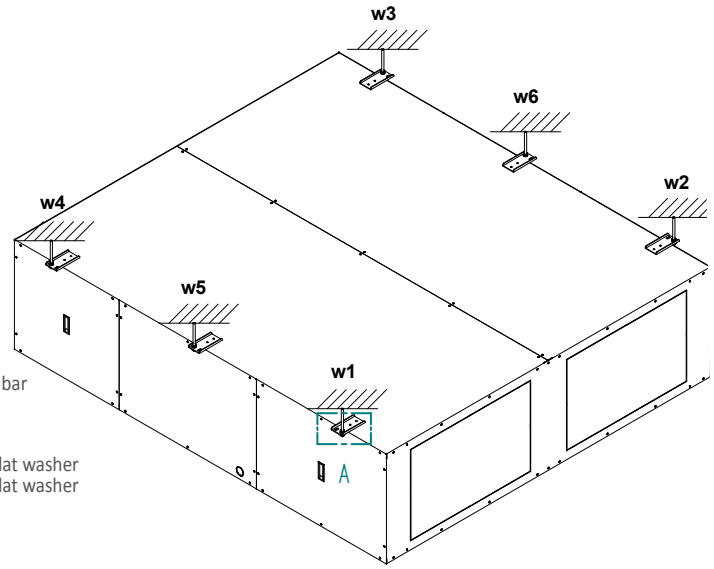
The unit can be suspended with threaded bars of an appropriate size connected to all the brackets installed as standard on the same unit during manufacture.
Always observe the maximum load capacity of the supports.
Install the unit at an angle of 2-3% along the width to the condensate drain to facilitate draining.
The suspended ceiling must not be the fixed type but instead the removable type, to give the technical staff the possibility to perform routine and special maintenance on the unit.

CEILING FIXTURE DIAGRAM



DETAIL A





	Total Weight [kg]	w1 [kg]	w2 [kg]	w3 [kg]	w4 [kg]	w5 [kg]	w6 [kg]
RPLI-030-W/E	97	24	24	24	24	-	-
RPLI-050-W/E	97	24	24	24	24	-	-
RPLI-070-W/E	130	33	33	33	33	-	-
RPLI-100-W/E	132	33	33	33	33	-	-
RPLI-140-W/E	165	41	41	41	41	-	-
RPLI-200-W/E	227	57	57	57	57	-	-
RPLI-300-W/E	290	48	48	48	48	48	48
RPLI-400-W/E	350	58	58	58	58	58	58

CONNECTION OF ACCESSORY MODULES

Connect as follows:

SIZES 030-100:

1) Locate the mouth of the unit on which the module will be fixed;
2) Apply a sealing gasket around the perimeter where the module will be brought in contact with the base unit;
3) Place the accessory module against the base unit, aligning it with the mouth;
4) Use the brackets, if provided, to support the module so that it does not weigh on the unit;
5) Secure the module with the self-tapping screws provided.

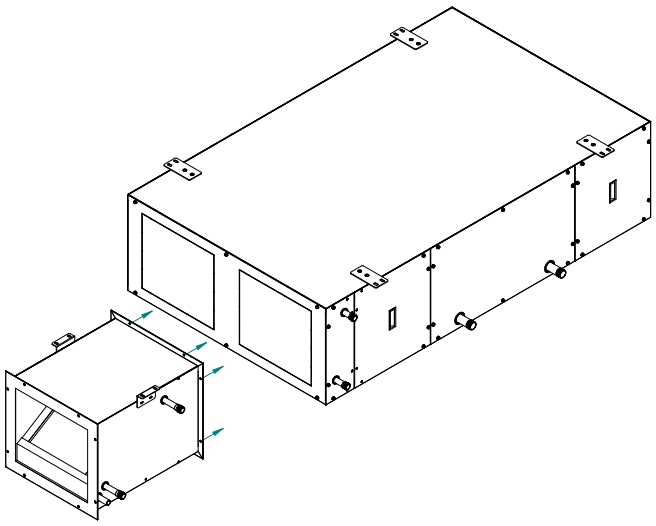
SIZES 140-400:

1) Locate the mouth of the unit on which the module will be fitted;
2) Remove the M6x16 screws in the feedthrough holes of the flange of the accessory module on the unit.

ATTENTION: DO NOT REMOVE OTHER SCREWS/PANELS DURING THIS OPERATION;

3) Apply a sealing gasket around the perimeter where the module will be brought in contact with the base unit;
4) Place the accessory module against the base unit, aligning it with the mouth;
5) Use the brackets, if provided, to support the module so that it does not weigh on the unit;
6) Secure the module with the M6x25 screws provided, fitting these in the threaded holes from which the M6x16 screws were previously removed.

FOR MODULES WITH CEILING FIXING BRACKETS, IT IS PROHIBITED TO LIFT THE UNIT WITH THE MODULE CONNECTED.
THE MODULE MUST BE SUPPORTED WITH THE BRACKETS PROVIDED.



HYDRAULIC CONNECTIONS

CONDENSATE DRAIN

An adequate drain system must have a siphon in order to:

- allow free condensation draining;
- prevent the entry of air into the depression systems;
- prevent the release of air from the pressurised systems;
- prevent the infiltration of smells or insects.

NOTE

A label bearing the recommended dimensions of the siphon is fixed on the external panelling at the point of the condensate drain.

Negative pressure systems:

H1 = 2P

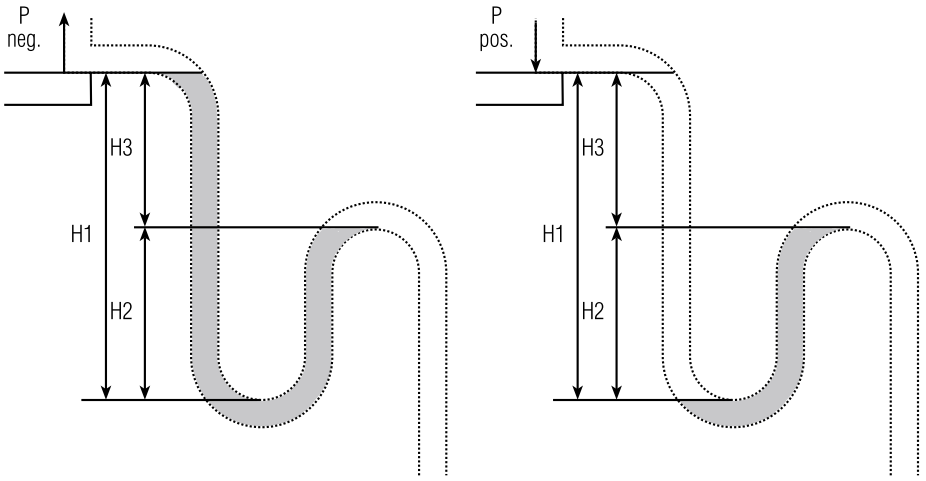
H2 = H1/2

Pressure systems:

H1 = 2P

H2 = H1/2

with P = pressure expressed in mm of water column (1 mm approx = 9.81 Pa).



The condensate drip tray of the base unit has a double 1/2' G UNI 338 male threaded drain (for sizes 03-10 included).
A single 1' G UNI 338 male threaded drain is required for sizes 14-40 and for the MBF modules.
All the drains must be connected to a condensate evacuation system with siphon.

WATER COILS

Follow these instructions to ensure proper connection to the hydraulic system:

- the coils must be connected making sure the unit and system cannot cause each other to vibrate. The installer should, therefore, fit tubes or flexible joints between the two circuits
- the pipe path must be studied in order not to create obstacles when the coil is extracted and to not make inspection and maintenance of the unit and other accessories impossible
- provide adequate clamping units to support the pipes so that their weight is not supported by the recovery unit;
- to connect the unit to the system it is crucial to observe the labels on the side of the unit (fluid inlet - fluid outlet).
- while tightening the hydraulic fittings, it is mandatory to block the coil fittings with a spanner while tightening the system fitting; this is to prevent the coil copper collectors from twisting
- provide shut-off valves to isolate the coil from the rest of the circuit should it need to be disconnected from the rest of the circuit
- mount an air bleed valve on the highest part of the coil and a water drain valve on the lowest part
- in order to prevent burns the pipes must be isolated effectively with suitable material flush with the panelling
- in the event of bad weather conditions, it is recommended to provide anti-freeze devices.

DIAMETER OF THE HYDRAULIC CONNECTIONS

	INTERNAL COIL (W)				EXTERNAL PROMISCUOUS COIL (MBF and MBF_X)				EXTERNAL POST HEATING COIL (MBP)		
	Type	Ø M coil inlet connections	Ø M coil outlet connections	Ø M conden-sate drain connections	Type	Ø M coil inlet connections	Ø M coil outlet connections	Ø M conden-sate drain connections	Type	Ø M coil inlet connections	Ø M coil outlet connections
030	**H/C**	1/2″	1/2″	1/2″	-	-	-	-	Post-Heating	1/2″	1/2″
050	**H/C**	1/2″	1/2″	1/2″	-	-	-	-	Post-Heating	1/2″	1/2″
070	**H/C**	1/2″	1/2″	1/2″	-	-	-	-	Post-Heating	1/2″	1/2″
100	**H/C**	1/2″	1/2″	1/2″	-	-	-	-	Post-Heating	1/2″	1/2″
140	**Hot**	3/4″	3/4″	1″	**H/C**	3/4″	3/4″	1″	Post-Heating	1/2″	1/2″
200	**Hot**	1″	1″	1″	**H/C**	3/4″	3/4″	1″	Post-Heating	1/2″	1/2″
300	**Hot**	1″	1″	1″	**H/C**	1″	1″	1″	Post-Heating	3/4″	3/4″
400	**Hot**	1″	1″	1″	**H/C**	1″	1″	1″	Post-Heating	3/4″	3/4″

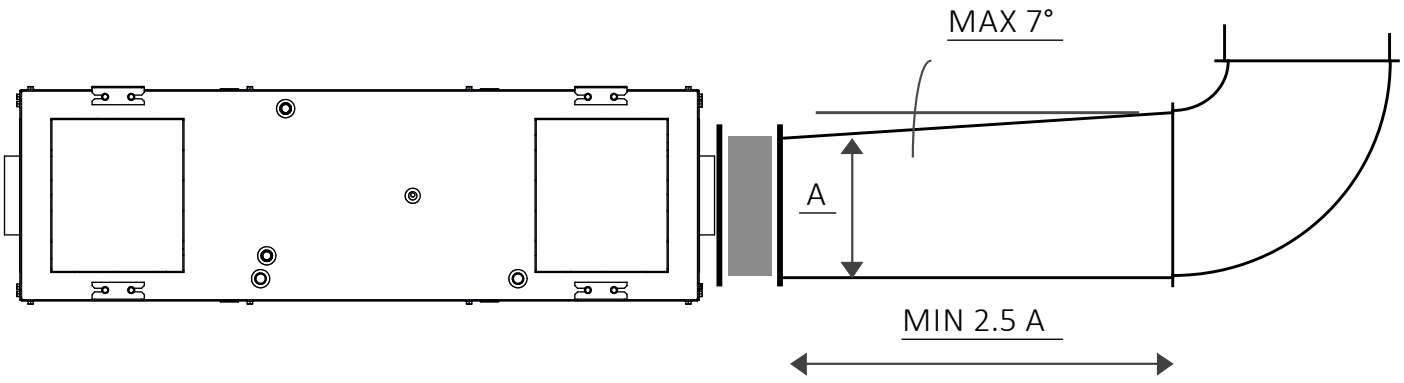
H/C Hot/Cold

AERAULIC CONNECTIONS

GENERAL STANDARDS

For proper installation of the ducts, it is recommended to:

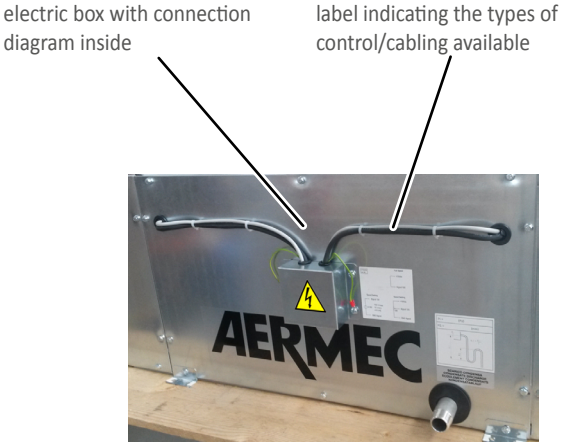
- prepare adequate bracketing to support the ducts so that the unit does not bear their weight
- connect the flow and recovery vents to the ducts placing anti-vibration joints in between (optional)
- provide an earth cable acting as a bridge on the anti-vibration joint to guarantee electrical equipotentiality between the duct and the unit
- provide, before bends and branches, the flow duct with a straight section measuring at least 2.5 times the smallest side of the duct to prevent loss of fan performance
- make sure that the slope of the ducting branching sections does not exceed 7°.



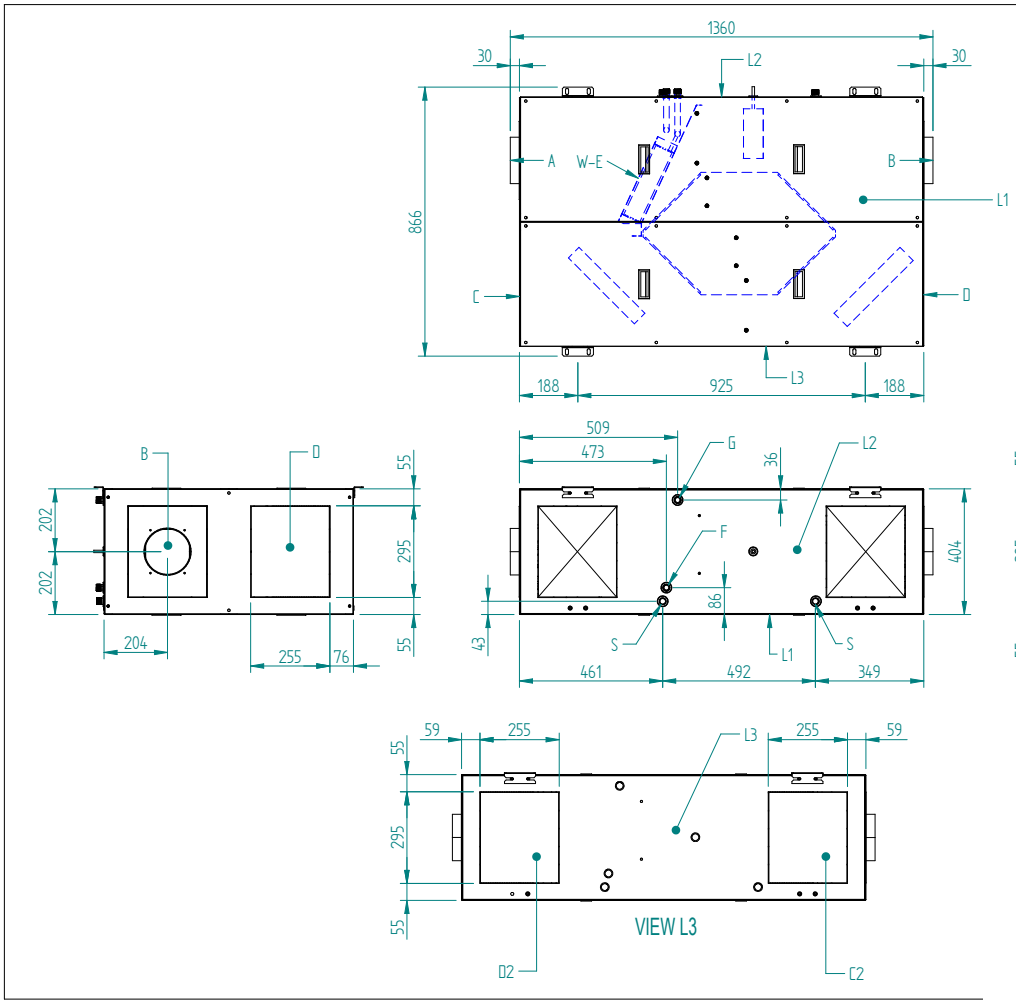
ELECTRICAL CONNECTIONS

GENERAL STANDARDS

The electrical connections must only be made by specialist personnel, with the necessary preparation regarding the prevention of accidents and safety at the workplace.
Make sure that the unit is connected to the earthing system before proceeding and that the entire system is connected to the same potential.
All electric power supplies must be off and disconnected. Make sure that all power supplies are protected against unintentional start-ups.
All the units have an electric box containing a terminal board. The terminal board and fans come already connected.
A diagram in the electric box indicates how to connect the power supply and shows the phase-cutting controls (for AC fans) or control signals (for EC fans).
Another label on the external panelling indicates the types of control/cabling available.

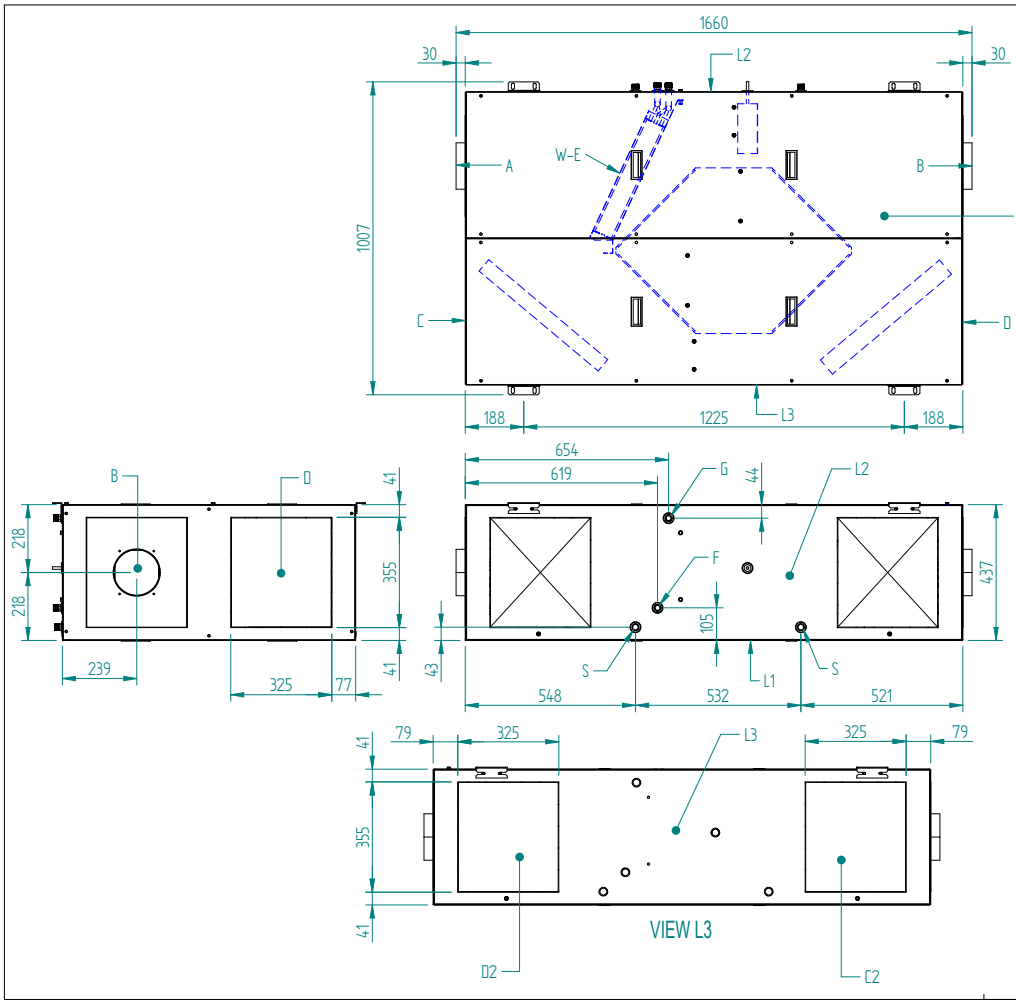


UNIT DIMENSIONS - TYPE 1 ORIENTATION STANDARD



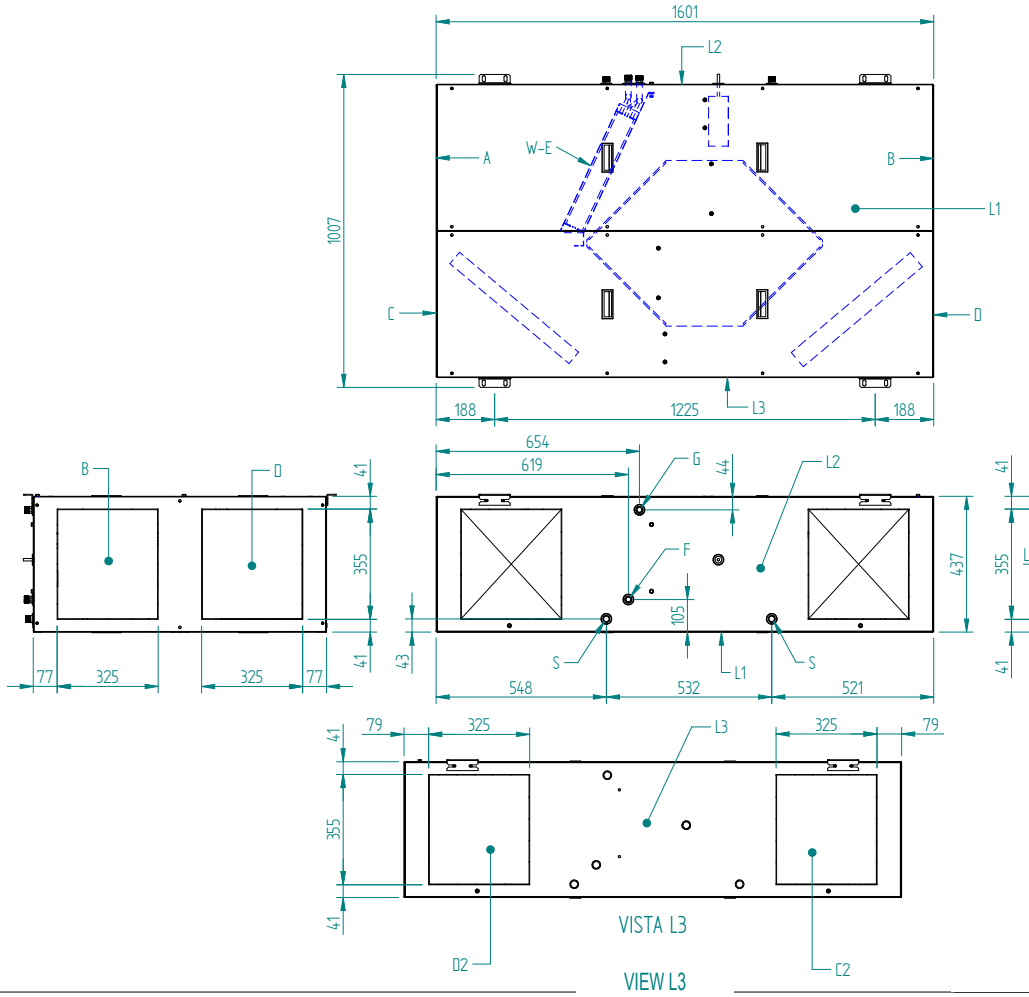
A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 030 - 050	
	Weight kg
030-050 L	95-93
030-050 P	93
030-050 LW	99-97
030-050 PW	97
030-050 LE	95-93
030-050 PE	93



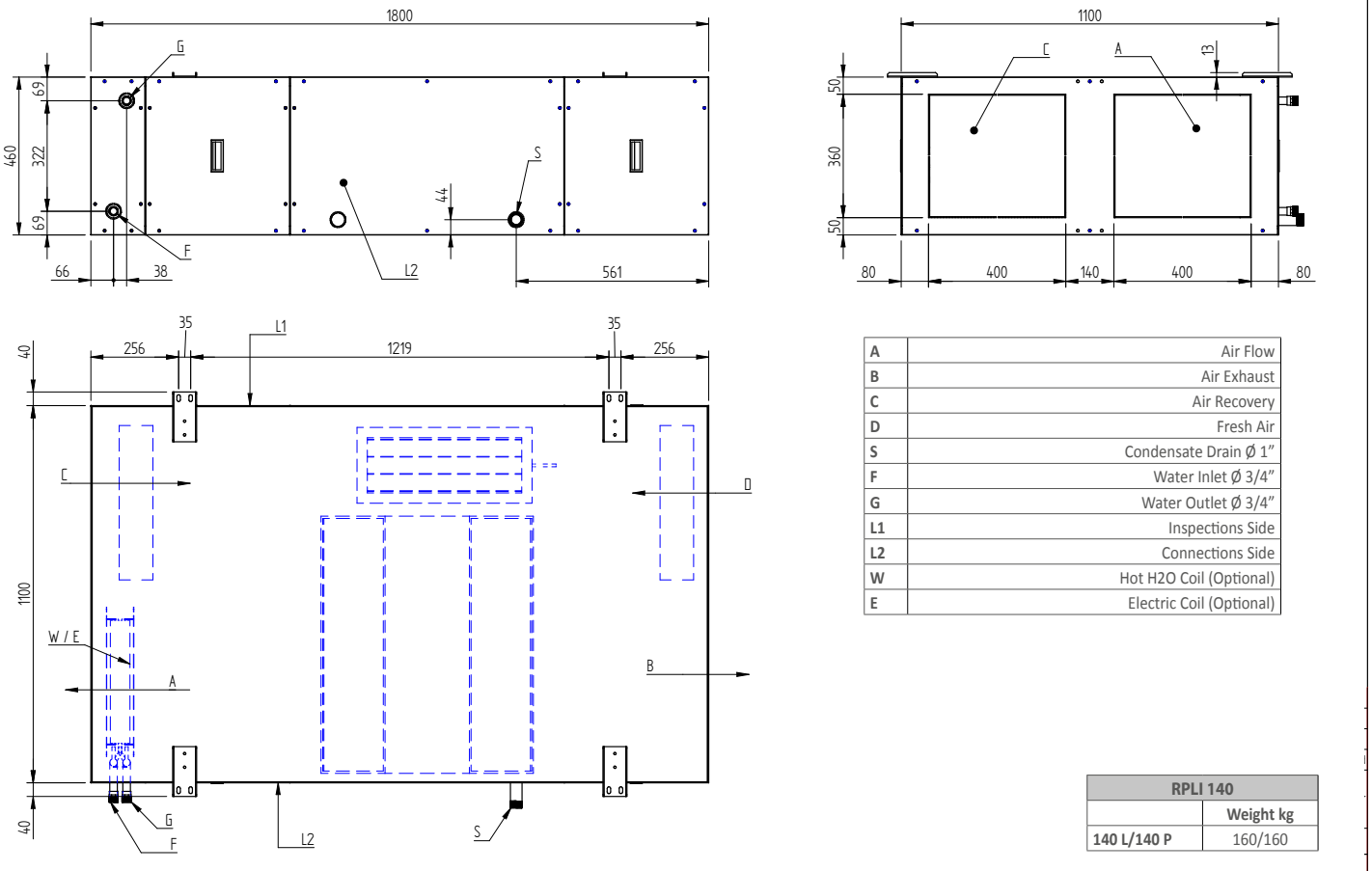
A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 070	
	Weight kg
070 L/070 P	125/125
070 LW/070 PW	125/125
070 LE/070 PE	130/130



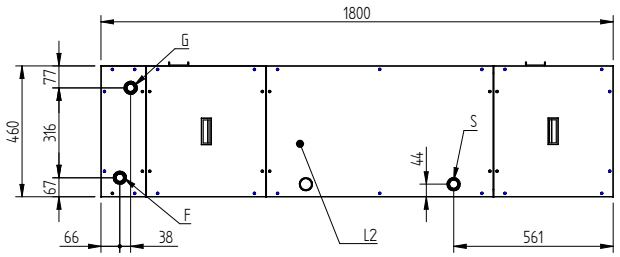
A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

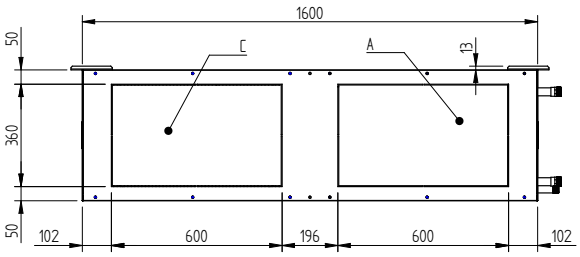
RPLI 070	
	Weight kg
100 L/100 P	123/127
100 LW/100 PW	123/127
100 LE/100 PE	128/132

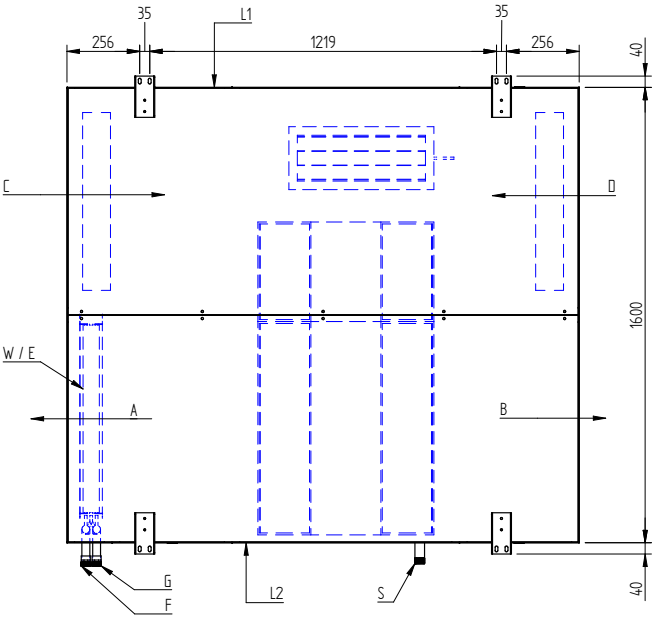


A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1"
F	Water Inlet Ø 3/4"
G	Water Outlet Ø 3/4"
L1	Inspections Side
L2	Connections Side
W	Hot H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 140	
	Weight kg
140 L/140 P	160/160

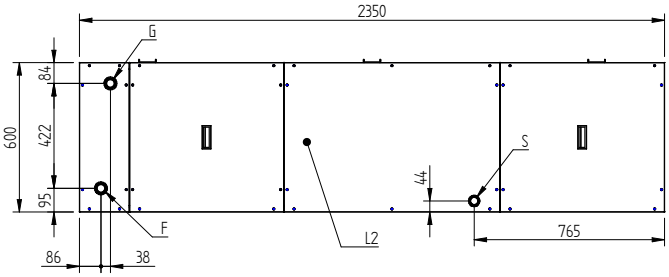


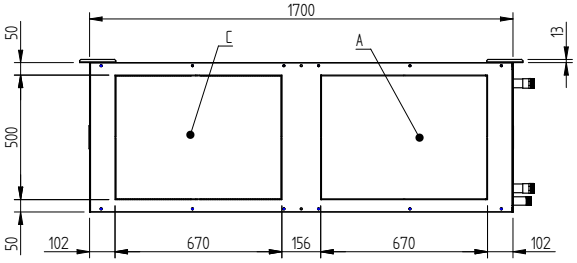


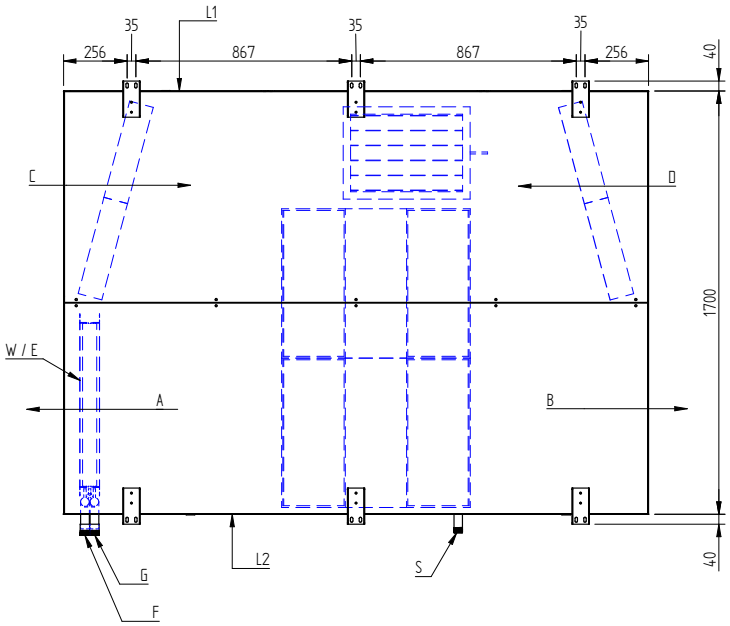


A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1”
F	Water Inlet Ø 1”
G	Water Outlet Ø 1”
L1	Inspections Side
L2	Connections Side
W	Hot H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 140	
	Weight kg
200 L/200 P	210/210

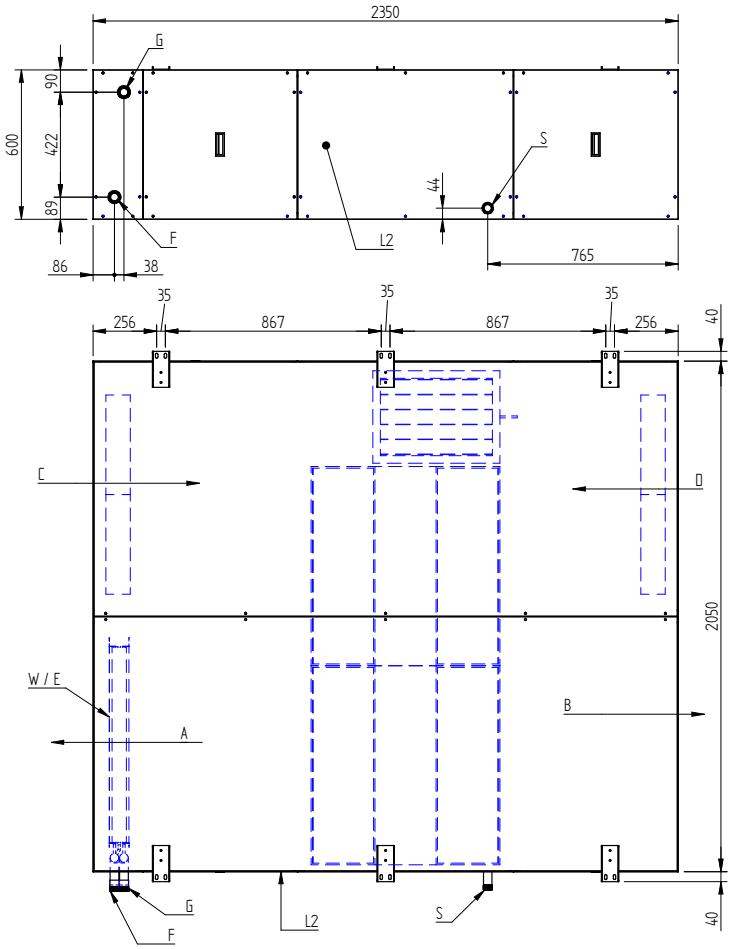


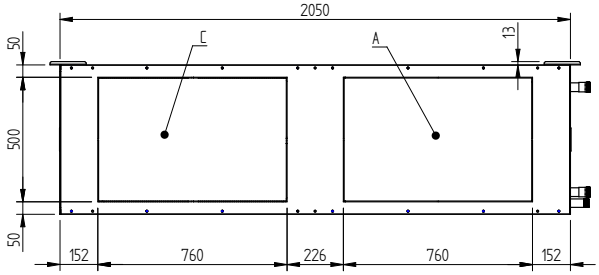




A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1”
F	Water Inlet Ø 1”
G	Water Outlet Ø 1”
L1	Inspections Side
L2	Connections Side
W	Hot H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 140	
	Weight kg
300 L/300 P	287/280

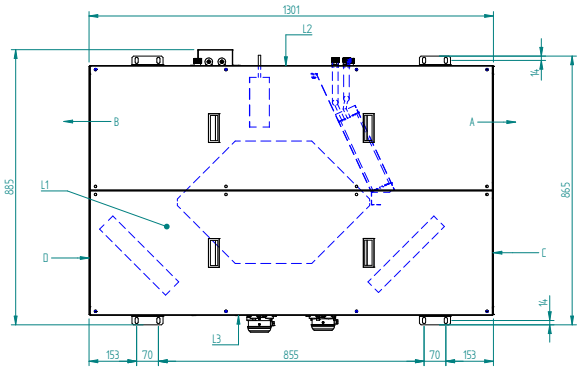




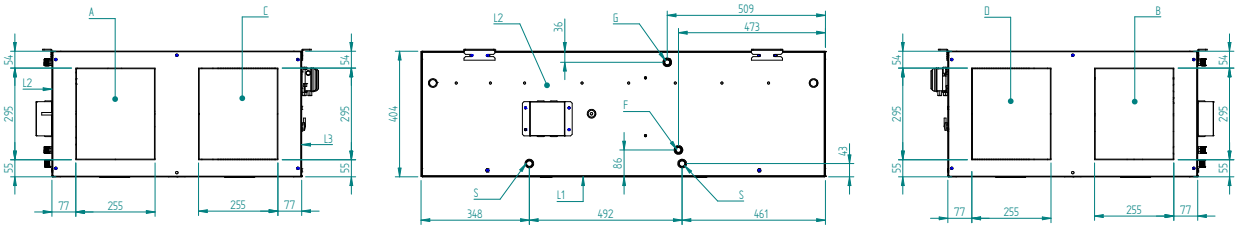
A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1”
F	Water Inlet Ø 1”
G	Water Outlet Ø 1”
L1	Inspections Side
L2	Connections Side
W	Hot H2O Coil (Optional)
E	Electric Coil (Optional)

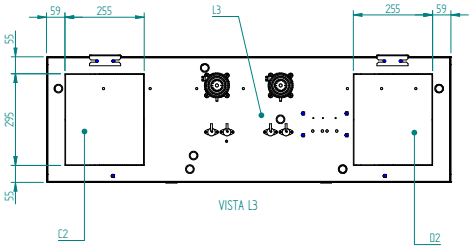
RPLI 400	
	Weight kg
400 L/400 P	340/340

UNIT DIMENSIONS - TYPE 2 ORIENTATION (TO BE REQUESTED DURING ORDER)

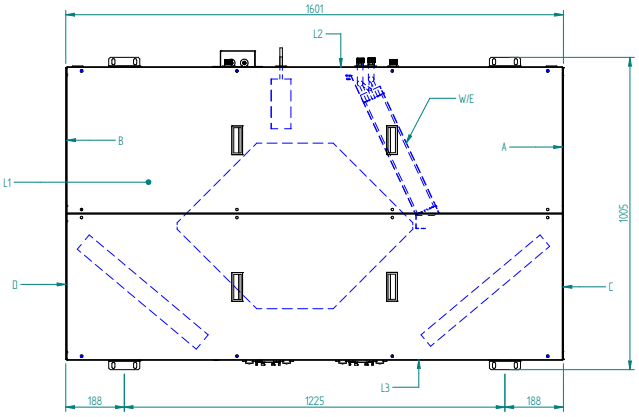


A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

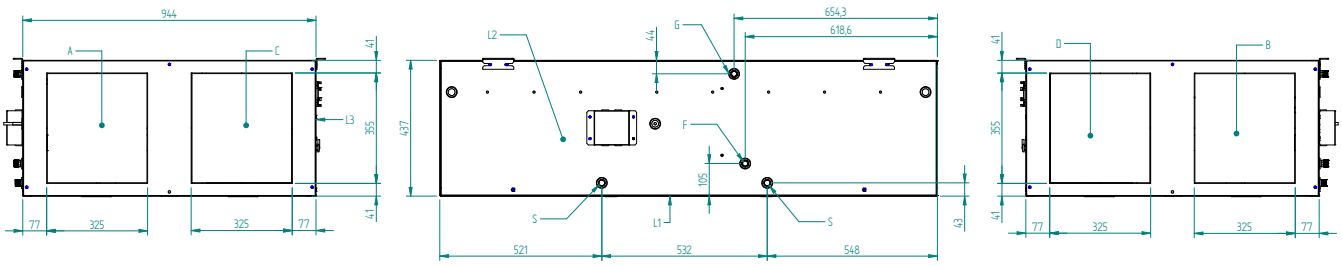


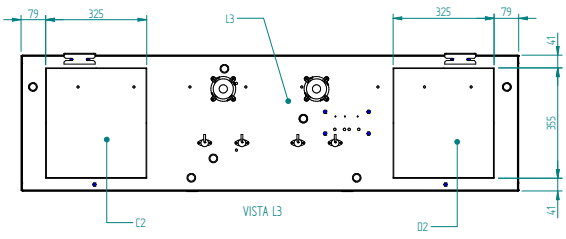


RPLI 030 - 050	
	Weight kg
030-050 L	95-93
030-050 P	93
030-050 LW	99-97
030-050 PW	97
030-050 LE	95-93
030-050 PE	93

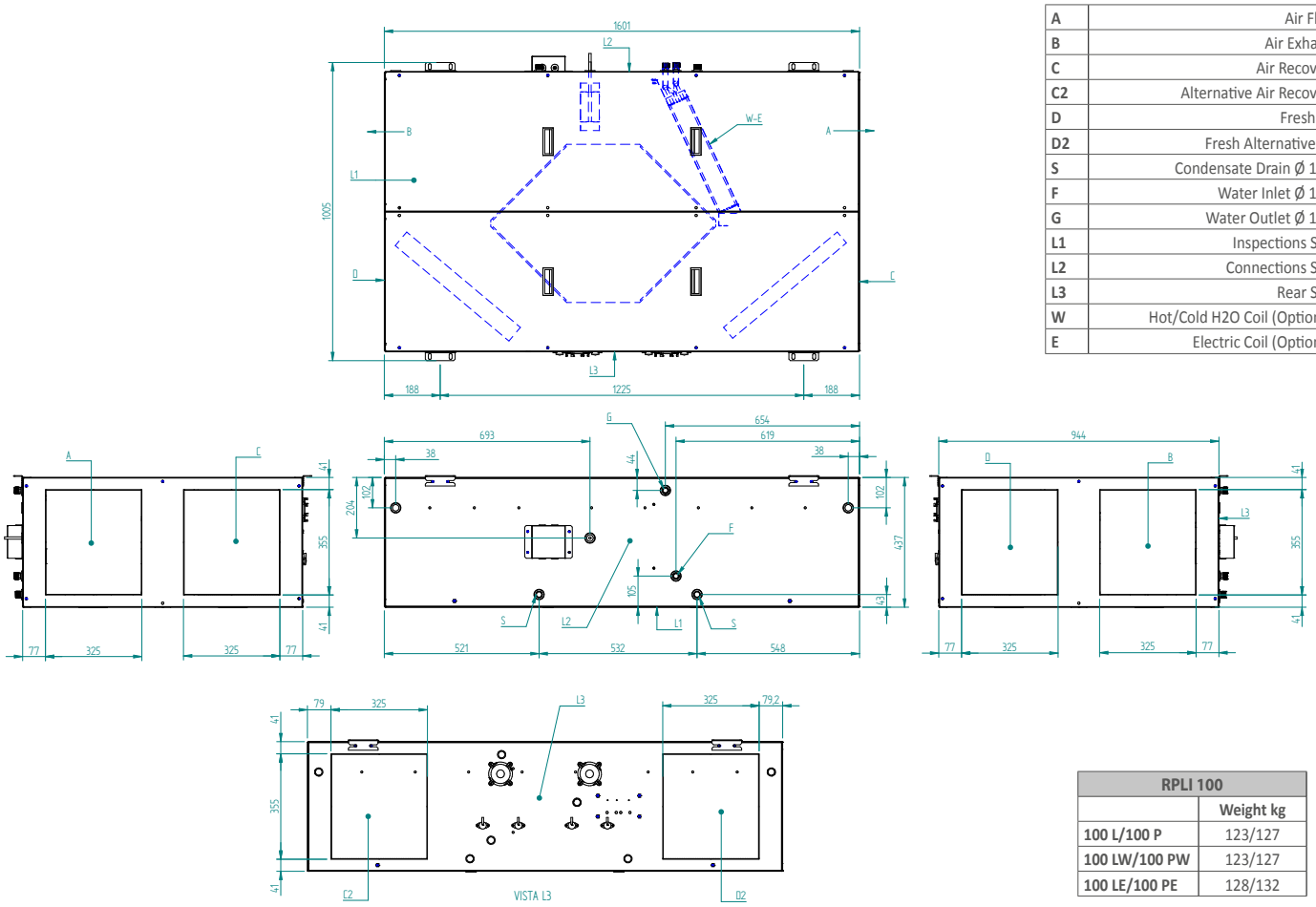


A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)



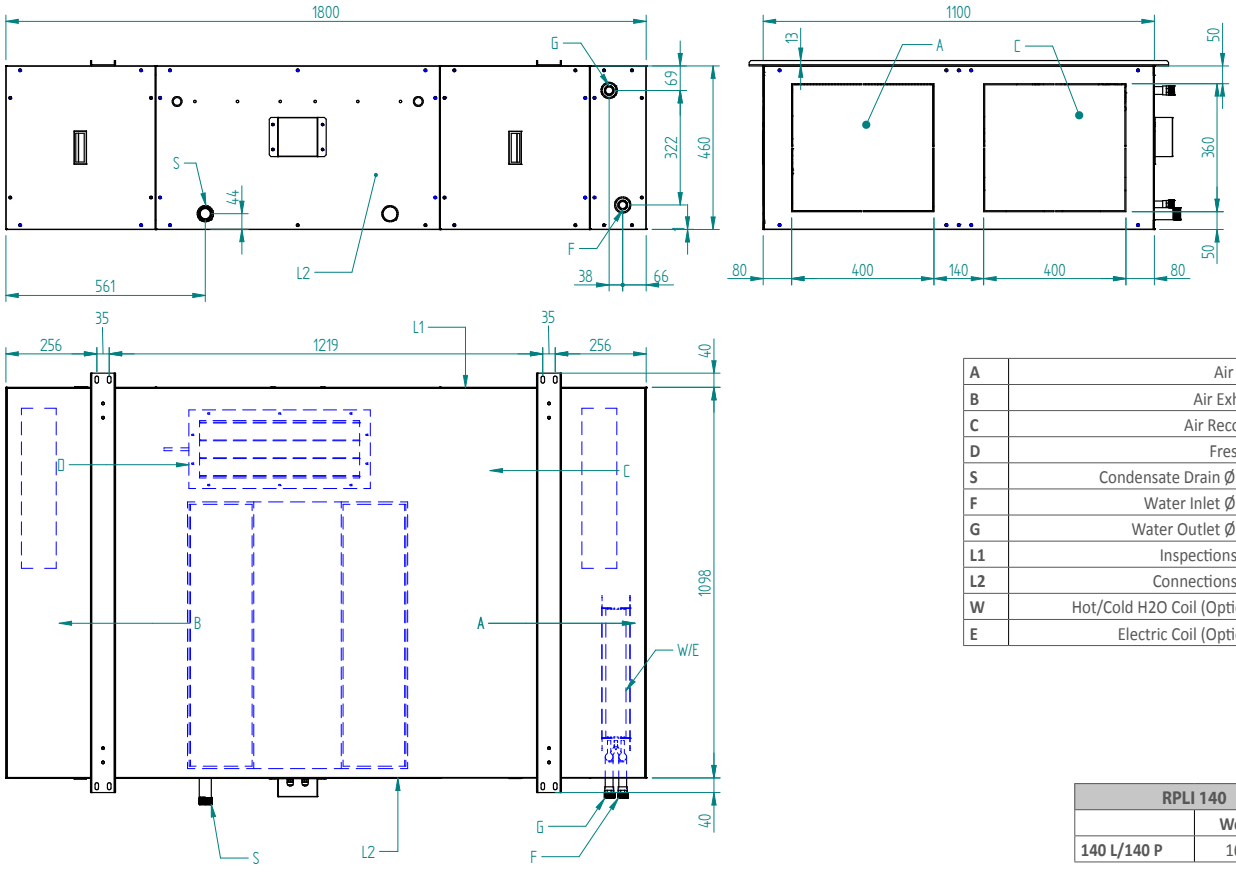


RPLI 070	
	Weight kg
070 L/070 P	125/125
070 LW/070 PW	125/125
070 LE/070 PE	130/130



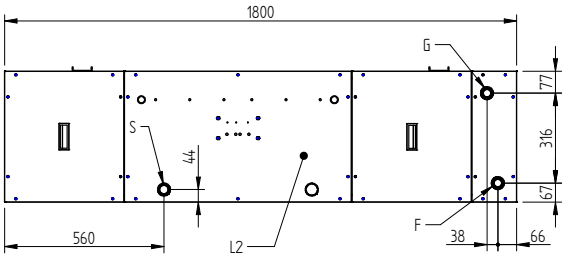
A	Air Flow
B	Air Exhaust
C	Air Recovery
C2	Alternative Air Recovery
D	Fresh Air
D2	Fresh Alternative Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
L3	Rear Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

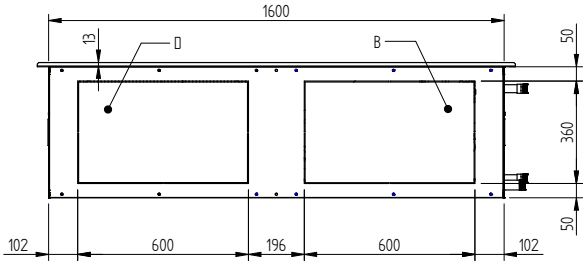
RPLI 100	
	Weight kg
100 L/100 P	123/127
100 LW/100 PW	123/127
100 LE/100 PE	128/132

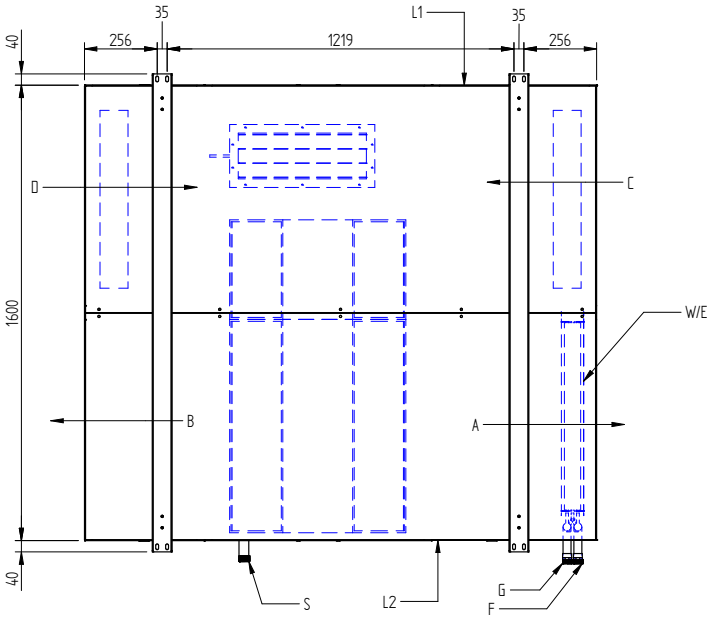


A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 140	
	Weight kg
140 L/140 P	160/160

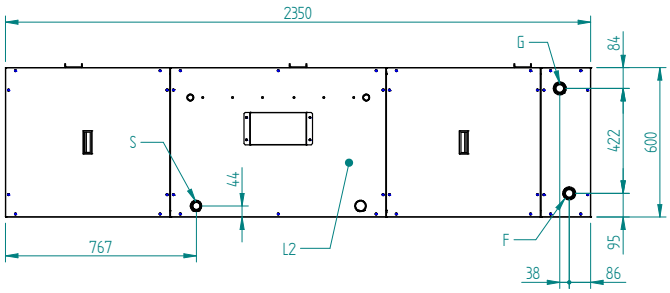


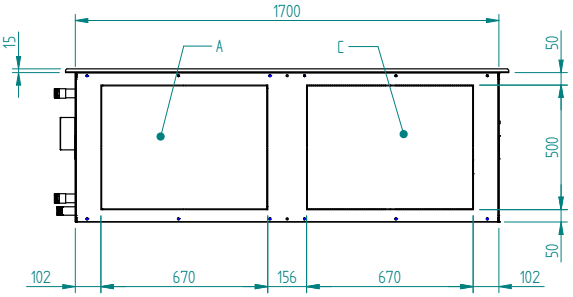


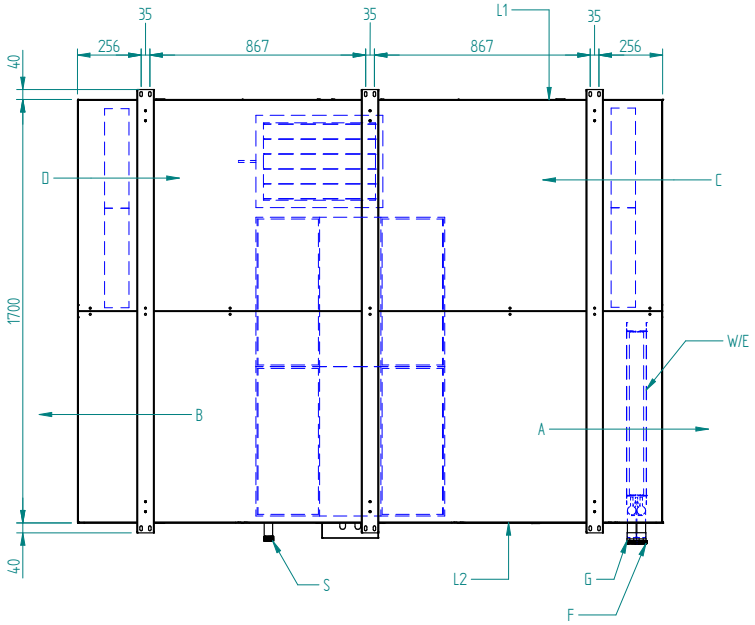


A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 200	
	Weight kg
200 L/200 P	210/210







A	Air Flow
B	Air Exhaust
C	Air Recovery
D	Fresh Air
S	Condensate Drain Ø 1/2"
F	Water Inlet Ø 1/2"
G	Water Outlet Ø 1/2"
L1	Inspections Side
L2	Connections Side
W	Hot/Cold H2O Coil (Optional)
E	Electric Coil (Optional)

RPLI 300	
	Weight kg
300 L/300 P	287/280

DISMANTLING AND DISPOSAL

GENERAL STANDARDS
All dismantling and waste disposal operations must be carried out by qualified personnel in compliance with national legislation in force in the country of use.

DISMANTLING
When dismantling the unit, comply with the following provisions:
- the circuit and electrical connections must be disconnected without the possibility of unintentional switch on. Live parts must be earthed or short-circuited and uncovered wires must be covered and insulated
- the hydraulic circuit must be deactivated and all the valves shut
- the hydraulic connections must be disconnected and the fluids recovered and disposed of at authorised facilities.

DISPOSAL
The unit must be processed at a structure specialising in the reuse, recycling and recovery of the materials.
During waste disposal, the components must be separated, recovered and disposed of at specific specialised facilities based on the manufacturing material:
- galvanised and/or precoated sheet steel (panels, fans, condensation collection trays, bulkheads, inside and outside framework, protective fences)
- aluminium or aluminium alloy sheet metal (louvers, grids and/or dampers, parts of electric motors)
- copper (pipes, louvers, electric motor windings)
- expanded polyurethane (internal insulation of panels)
- mineral wool (internal insulation of panels)
- electric and/or electronic material (electric control boards, controllers).

All necessary precautions must be taken to avoid damaging persons or objects or polluting the surrounding environment.
For further information, contact the installer or local authorities.

WEEE DIRECTIVE (ONLY FOR EU)
The WEEE (waste electric and electronic equipment) Directive defines the waste disposal and recycling of electric and electronic equipment. It foresees that this waste be treated by specific facilities, separate from those dedicated to the disposal of mixed urban waste. The user has the obligation of disposing of these products in appropriately equipped centres, authorised to manage this type of waste.

MAINTENANCE

Wear proper personal protective equipment (PPE) to perform maintenance.
Before accessing the unit for maintenance and/or cleaning, make sure that it is not live, that it cannot be powered without the operator knowing it and that the heat exchange coils are not on.

FILTERS

Cleaning the filters is fundamental to keep the air quality in the room at a high standard. The synthetic filters mounted on the unit can be regenerated with a compressed air jet or washed with cold water. To remove the filters, do as follows:

- remove the inspection panels provided with screws;
- pull the filters off;
- clean the filters;
- put all the components back on in inverse order.

EC AXIAL FANS

The fan-motor unit must be checked for dirt on the impeller, for any traces of corrosion or damage, and for any unusual noise. If the fan-motor units need to be disassembled, follow these instructions:

- remove all the inspection panels
- disconnect the electric power cables
- loosen the screws securing each fan-motor unit to the structure
- check the fan-motor units and replace them if necessary
- put all the components back on in inverse order.

HEAT EXCHANGE COILS

To ensure constant and efficient heat exchange, clean the coils with a jet of compressed air and avoid the infiltration of air in the circuit.

COMPONENT	FILTERS	FREQUENCY
Filters	Check dirtying	Every two weeks or when alerted by the filter cleaning alarm
Heat exchange coils	Check pack cleanliness	Yearly
Condensate drip tray	Check dirtying	Yearly
Recovery unit	Check pack cleanliness	Yearly

TROUBLESHOOTING

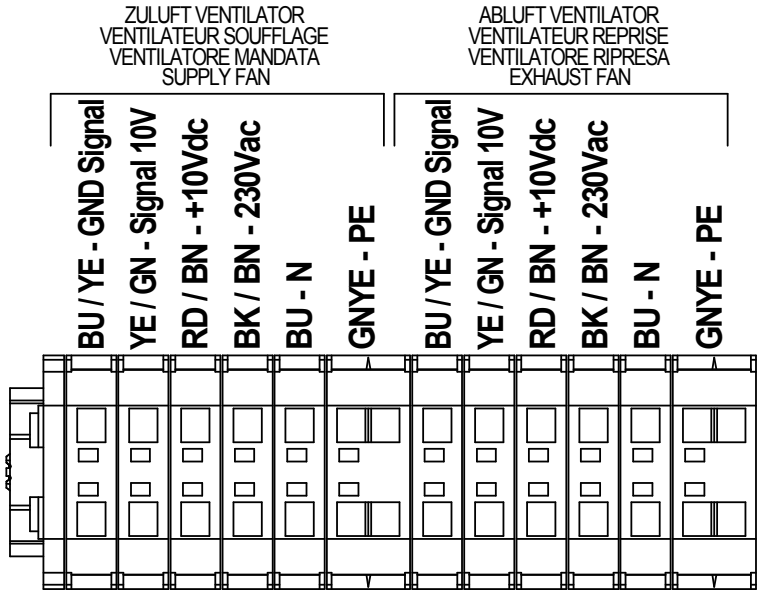
Problem	Possible cause	Possible solution
Air flow rate insufficient	Filters clogged Formation of frost on components; Deposit or soiling of heat exchange coils; Pressure drop of distribution systems underestimated;	Clean the components
Air flow rate excessive	Incorrect calibration of dampers; Pressure drops of distribution system underestimated; Filters not refitted after maintenance	Calibrate the dampers Assemble the filters
Unusual noise	Bearings of motor or fan worn or faulty Extraneous bodies on fan rotor	Replace the fan. Clean the rotor
Water carry over	Siphon clogged Siphon missing or not made correctly	Clean the siphon Set up a professionally installed siphon
The unit does not reach the desired temperatures	Unintended inlet temperatures Air in water coils Water flow rate insufficient Water temperature insufficient Adjustment system failure	Bleed the coils Increase water flow rate Check water temperature Check the adjustment system

WIRING DIAGRAM

WIRING DIAGRAM LABEL - RPLI 030L - 100L - 200L

ET00089
rev.02

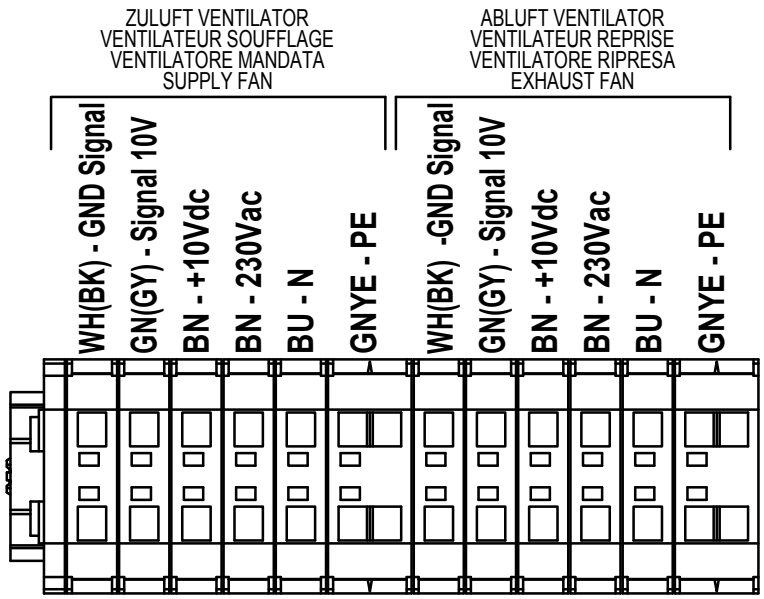
WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		BLUE	
RD		ROSSO		RED	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW



WIRING DIAGRAM LABEL - RPLI 050L - 070L -140L - 300L

ET00055
rev.01

WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		BLUE	
RD		ROSSO		RED	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW



WIRING DIAGRAM LABEL - RPLI 400L

ET00051
rev.02

WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		RED	
RD		ROSSO		BLUE	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW

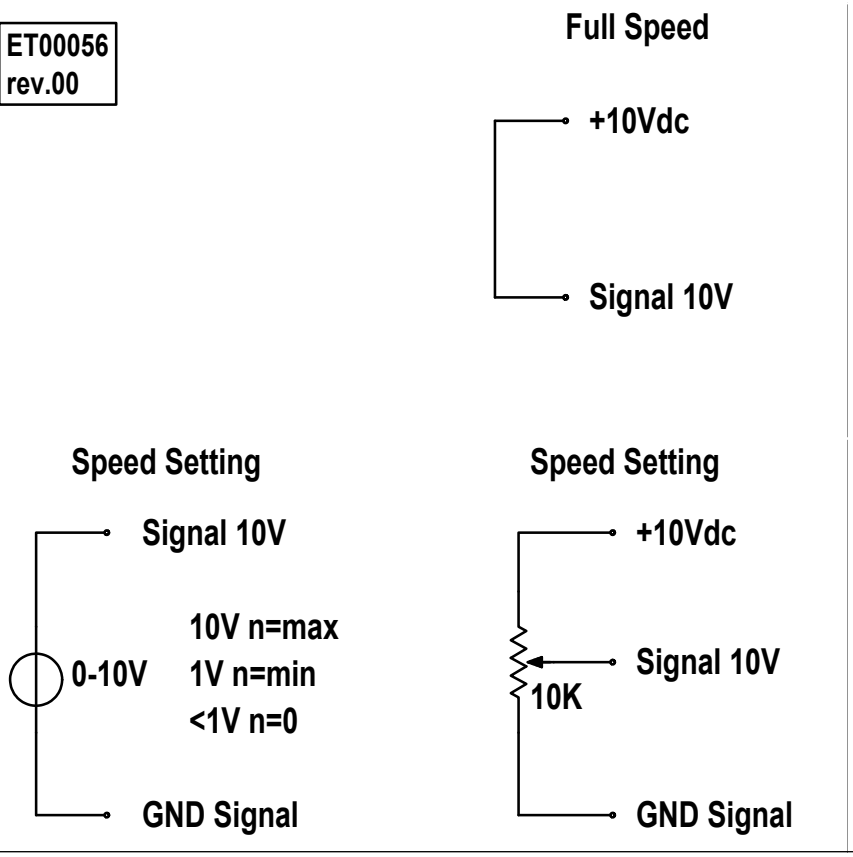
ZULUFT VENTILATOR
VENTILATEUR SOUFFLAGE
VENTILATORE MANDATA
SUPPLY FAN

ABLUFT VENTILATOR
VENTILATEUR REPRISE
VENTILATORE RIPRESA
EXHAUST FAN

+10Vdc - Voltage output	WH										+10Vdc - Voltage output	WH							
10V - Signal	BN										10V - Signal	BN							
GND - Signal	GN										GND - Signal	GN							
NC - Alarm supply 1	YE										NC - Alarm exhaust 1	YE							
COM - Alarm supply 1	GY										COM - Alarm exhaust 1	GY							
NO - Alarm supply 1	PK										NO - Alarm exhaust 1	PK							
400Vac 50/60Hz	GY										400Vac 50/60Hz	GY							
400Vac 50/60Hz	BN										400Vac 50/60Hz	BN							
400Vac 50/60Hz	BK										400Vac 50/60Hz	BK							
⏚	GNYE										⏚	GNYE							

POTENTIOMETER LABEL - FOR ALL THE SIZES

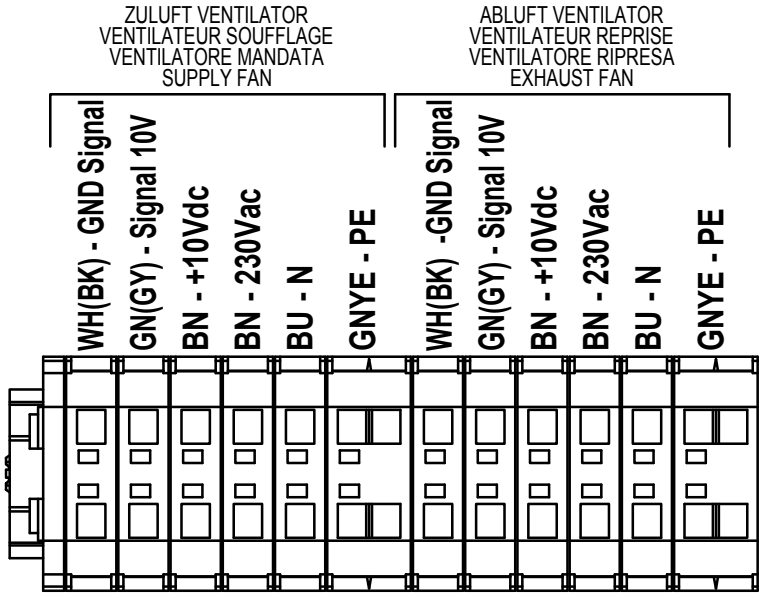
ET00056
rev.00



WIRING DIAGRAM LABEL - RPLI 030P - 050P - 070P - 100P - 140P - 200P

ET00055
rev.01

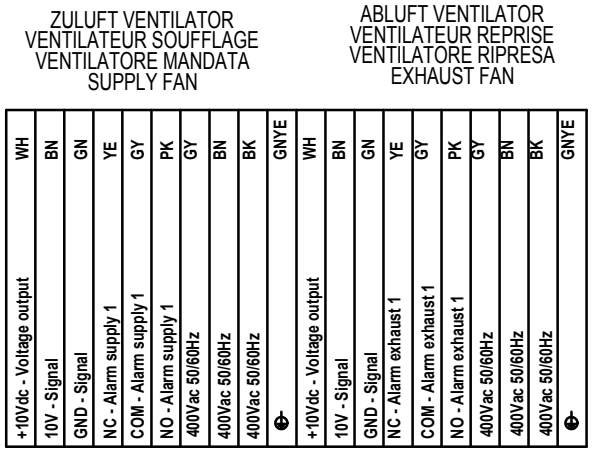
WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		BLUE	
RD		ROSSO		RED	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW



WIRING DIAGRAM LABEL - RPLI 300P

ET00051
rev.02

WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		BLUE	
RD		ROSSO		RED	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW



WIRING DIAGRAM LABEL - RPLI 400P

ET00057
rev.01

WH		BIANCO		WHITE	
BN		MARRONE		BROWN	
GN		VERDE		GREEN	
YE		GIALLO		YELLOW	
GY		GRIGIO		GREY	
PK		ROSA		PINK	
BU		BLU		BLUE	
RD		ROSSO		RED	
BK		NERO		BLACK	
VT		VIOLA		VIOLET	
GY	PK	ROSA	GRIGIO	PINK	GREY
RD	BU	ROSSO	BLU	RED	BLUE
GN	YE	GIALLO	VERDE	GREEN	YELLOW

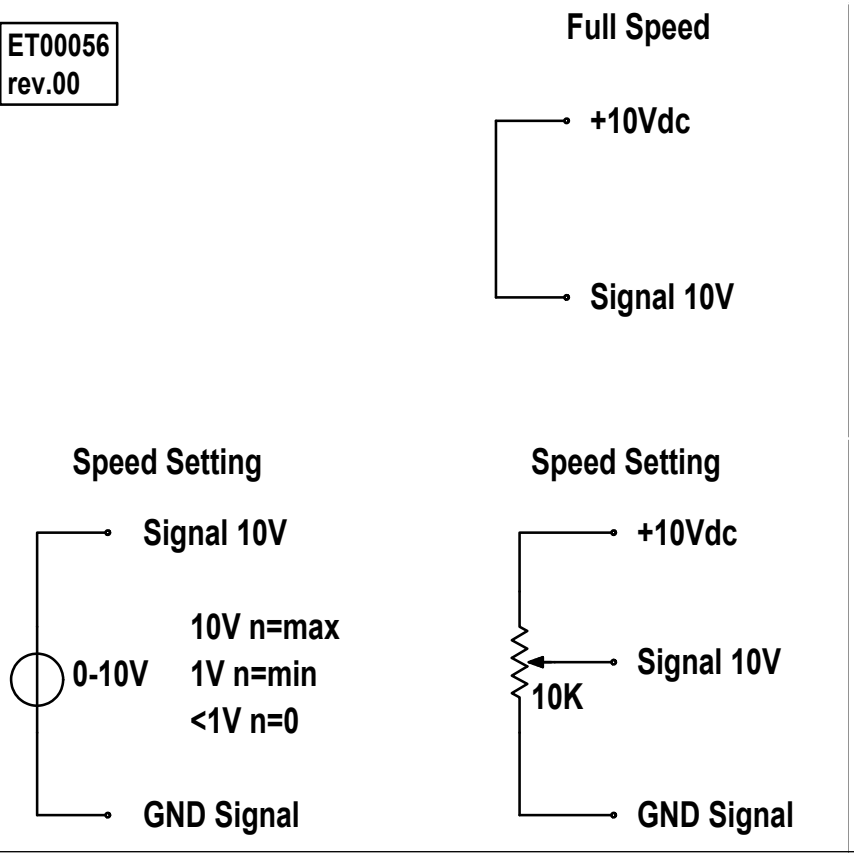
ZULUFT VENTILATOR
VENTILATEUR SOUFFLAGE
VENTILATORE MANDATA
SUPPLY FAN

ABLUFT VENTILATOR
VENTILATEUR REPRISE
VENTILATORE RIPRESA
EXHAUST FAN

WH	BN	GN	YE	GY	PK	GY	BN	BK	GNYE	WH	BN	GN	YE	GY	PK	GY	BN	BK	GNYE	
+10Vdc - Voltage output	10V - Signal	GND - Signal	NC - Alarm supply 1	COM - Alarm supply 1		400Vac 50/60Hz	400Vac 50/60Hz	400Vac 50/60Hz	⏚	+10Vdc - Voltage output	10V - Signal	GND - Signal	NC - Alarm exhaust 1	COM - Alarm exhaust 1		400Vac 50/60Hz	400Vac 50/60Hz	400Vac 50/60Hz	⏚	

POTENTIOMETER LABEL - FOR ALL THE SIZES

ET00056
rev.00



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carta riciclata
recycled paper
papier recyclé
recycled Papier