

# PANDA



MODELS			
H205		H225	
P100	P115	P100	P115
L125			
L250			
L375			

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### PANDA













USE AND MAINTENANCE MANUAL

428900224237

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The manual contains symbols to attract the reader's attention and highlight particularly important aspects. The table below illustrates the meaning of the various symbols used.

	Read the instructions manual		Use of protective clothing
	Danger: Live electrical parts		Requests for maintenance or operations must be carried out by qualified staff or technical after-sales centres.
	Attention / Danger		Important information
	Information		Operations that must be performed by two persons.
	Visual observation		Notes / Important notes
	Condensing unit on board		Remote condensing unit

## 1. NOTES / IMPORTANT NOTES



The content of this manual is of technical nature and is owned by **ISA S.r.l. division TASSELLI**. It is forbidden to reproduce, circulate or modify all or part of its content without written consent. Any infringement will be legally pursued.

The manual and the conformity certificate are an integral part of the equipment and should always accompany the product in the event of a transfer to a new location or to a new owner. The user is responsible for the integrity of these documents, for their consultation and during the whole life cycle of the equipment itself. Keep this manual in a safe place. It should be available for consultation near the equipment at all times. If lost or destroyed, you can request a copy of the manual from **ISA S.r.l. division TASSELLI** by specifying the exact model, serial number and year of manufacture. The manual reflects the manufacturing technology at the time of supply. The manufacturer reserves the right to modify its products in any way it deems necessary, with no obligation to update manuals and machines relating to previous manufacturing batches.



This appliance is not to be intended as directly usable by a final general user: it is intended to be installed and incorporated in one or more plants by an installer, who will use suitable specialised staff for the purpose. Before commissioning, it is necessary that the installer supplies the relative certificate of conformity to the applicable national and international legislation. The appliance can be used only at this point.

In all cases, this appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or by persons lacking the necessary experience and knowledge, unless they are supervised by a person responsible for their safety who has instructed them on how to use the equipment. Children should be supervised to ensure that they do not play with the equipment. Always refer to this manual before going ahead with any operation. Before doing any type of work, disconnect the equipment from the power supply. Any work on electric and electronic parts or cooling system components should only be carried out by trained personnel in compliance with current laws.

The Manufacturer cannot be held liable for any injury to persons or animals, or damage to the product itself in the event of:

- improper use of the equipment or use of the appliance by unqualified or unauthorised personnel;
- failure to comply with current legislation
- incorrect installation and/or power supply faults
- failure to observe the instructions contained in this Manual
- failure to follow the maintenance programme
- unauthorised modifications
- installation of non-original spare parts in the equipment
- installation and use of the equipment for purposes other than those for which the appliance was designed and sold
- Tampering with or damage to the power supply cable.

Liability for applying the safety instructions contained in this manual is held by the technical personnel responsible for the intended use of the equipment, who should ensure that authorised personnel:

- are qualified to carry out the requested activity;
- Are aware of, and carefully comply with, the instructions contained in this document;
- are aware of, and apply, the general safety standards applicable to the equipment.

Failure to comply with safety standards may result in injury to personnel and damage to the equipment components and control unit. The user can contact the dealer to request additional information not contained in this document, or suggest improvements, at any time.



Before the product is delivered to the customer, it is essential that a trained technical member of staff checks that the appliance is operating correctly in order to achieve maximum performance.

## 1.1 Introduction

**ISA S.r.l. division TASSELLI** employs materials of the best quality and as they enter the company, we constantly monitor their storage and the use as part of the manufacturing process to prevent damage, deterioration and failure. All manufacturing elements are designed and manufactured in order to guarantee reliability and high safety standards. All appliances are subjected to a strict testing procedure before delivery. However, please bear in mind that product performance over time depends on correct use and adequate maintenance. This manual contains the necessary instructions to maintain the appliance's initial appearance and functions over time.



### Note

In order not to compromise functionality and safety of the appliance, the particularly complex installation and maintenance activities are not documented in this manual and are performed by specialised ISA s.r.l. division technicians.

The Use and Maintenance manual contains the necessary information for understanding how the appliance works and how to use it properly, namely: the technical description of the various operational units, equipment and safety systems, operations, how to use the instruments and the interpretation of any diagnostics reports, main procedures and information relating to routine maintenance. For correct use of the appliance, the working environment should comply with current health and safety standards.

The safety requirements, indications, standards and notes illustrated in the various chapters of the manual are aimed at establishing a code of conduct and a series of obligations to be observed when performing the various activities, in order to create safe conditions for personnel, the equipment and the surrounding environment. The safety standards reported in this document are intended for trained, authorised personnel responsible for:

- transport
- installation
- operations
- management
- maintenance
- cleaning, putting out of service and disposal that constitute the only methods of use envisioned for the appliance in question



### Attention

Reading this manual, albeit in full, is no substitute for adequate user experience. therefore it should only be considered a useful reminder of the technical features and the main operations to perform.



### Warning

The installers and users must read and understand the instructions contained herein before any operation on the appliance.

## 1.2 Manufacturer's contact details

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## 2. SAFETY

The buyer is responsible for training personnel using the appliance on the risks, safety devices and general health and safety rules required by the laws of the country where the appliance is installed.

Users/operators should be aware of the position of all the controls and how they work, as well as of the features of the appliance.

They should also read this manual in its entirety.

Maintenance work should be conducted by qualified personnel after the appliance has been prepared adequately.



### **Danger**

Unauthorised tampering or replacement of one or more parts of the appliance, use of accessories that modify the use of the same and use of spare parts different to those recommended, can become the cause of injury.



### **Danger**

Before doing any type of work, disconnect the appliance from the power supply.

Any work on electric parts or cooling system components should only be carried out by trained personnel in compliance with current laws.

### 2.1 Staff training.

The buyer is responsible for ensuring personnel who will use the appliance and maintenance technical staff are instructed and trained adequately.

The manufacturer is available for advice, clarifications, etc. so that the operator and technical staff can use the appliance correctly.



### **Attention**

The appliance is intended for professional use.

### 2.2 Safety devices applied

The appliance is equipped with the following safety devices:

#### 2.2.1 Safety devices present

Devices whose operation prevents the occurrence of risk situations in operating conditions (e.g. fuses, pressure switches, protections, magnet circuit breakers, etc.).

#### 2.2.2 Fixed guards

Fixed protective devices consist of fixed perimeter shields, which are used to prevent external parts from entering the equipment.



### **Danger**

It is prohibited to re-start the appliance following maintenance without having correctly restores the panels.



### **Attention**

You should check the integrity of fixed panels and corresponding fixings to the frame, focussing in particular on the protective panels.

### 2.2.3 Isolating the electricity supply

Before conducting any maintenance work on the equipment or part of it, it is necessary to section the power supply that powers it.

**Danger**

Therefore remember, in the event of maintenance operations in which the operator cannot prevent accidental closure of the circuit by others, to totally disconnect the appliance from the mains electricity.

## 2.3 Residual risks

During design the manufacturer examined all the areas or parts at risk. Therefore, all necessary precautions have been taken to prevent risks to persons and damage to the appliance as mentioned earlier.

**Attention**

Periodically check that all safety devices are operating correctly.  
Do not remove the fixed guards.  
Do not introduce objects or tools into the work area.

Although the appliance is fitted with the aforementioned safety devices, there are still some risks that cannot be eliminated, but reduced via corrective actions by the end user and correct operational procedures.

Below is a summary of the remaining risks associated with the appliance during:

- Normal operation
- Adjustments and tweaking
- Maintenance
- Cleaning

### 2.3.1 Risk of contact with live parts

Risk of breaking or damaging the electrical components of the appliance, with a possible reduction in safety levels, following a short circuit or other events.

Before connecting the electricity supply, make sure there is no ongoing maintenance work.

**Attention**

Before making the connection, check that the d.c. current in the installation point does not exceed that indicated on the protections switches present in the electric control board. If this is not the case, the user must envision the relevant limiting devices.  
It is strictly forbidden to conduct any electrical modification, in order to prevent additional unforeseen hazards and risks.

### 2.3.2 Fire

**Danger**

In the event of a fire, immediately disconnect the master switch from the main power supply line and move as far away as possible from the appliance.

### 2.3.3 Explosive atmosphere

The equipment must not be located in an area classified as an explosion risk according to 1999/92/EC such as:

#### Zone 0

An area in which there is a permanent, long-lasting or frequently explosive atmosphere made up of a mixture of air and flammable substances in the form of gases, fumes or steam.

#### Zone 1

An area in which the formation of an explosive atmosphere, made up of a mixture of air and flammable substances in the form of gases, fumes or steam is occasionally probable during normal activities.

#### Zone 20

An area in which there is a permanent, long-lasting or frequently explosive atmosphere in the form of clouds of combustible dust in the air.

#### Zone 21

An area in which the formation of an explosive atmosphere in the form of clouds of combustible dust is occasionally probable during normal activities.

### 2.3.4 Slipping



Any leaks in the areas surrounding the appliance may cause personnel to slip. Check that there are no leaks and keep these areas clean at all times.

### 2.3.5 Tripping



Generally untidy deposits of material may constitute a tripping hazard and a total or partial obstruction of emergency exit routes. Ensure that operating and transit areas and emergency exit routes are free from obstacles in compliance with current legislation.

### 2.3.6 Circuit faults

Owing to potential faults, safety circuits may become less effective, which results in lower safety levels.

You should check the operational condition of the appliance devices regularly.

### 2.3.7 Falling objects

Positioning of the cabinet display parts (i.e. counters, rods and hooks), as also product arrangement inside the cabinet can be the source of potential hazards if not properly performed.

Follow the positioning instructions described in this Manual before you place products inside the cabinet, check that the counters are properly fastened, as also the hooks, etc. Do not exceed the maximum load limit. Do not tilt the shelves.

Do not place any goods and in general, do not load the tank sliding element closing devices with any load, while open or closed.

### 2.3.8 Cooling

During different operations to perform on the counter, such as cleaning or loading goods, it is necessary to handle products and/or counter parts at a low temperature with the risk of "cold injury" for the operators and/or accidental slipping hazard.

Follow the safety regulations in the place where the cabinet is installed; more specifically, be sure to always use the right PPE (especially gloves).



### 2.3.9 Foodstuffs safety

The refrigerator cabinet described herein is meant to be used to display packaged products. As such, it is not designed for direct contact between the foodstuffs and display surfaces. If the foodstuffs do accidentally make contact with the surfaces and for a rather long time, the product may be contaminated.

Follow the guidelines on how to use the cabinet. If a product package breaks, remove it from the cabinet and clean, if necessary.

### 2.4 Warning signs (if any)

Depending on the residual risks of various nature, identify the equipment with warning danger, warning and obligation signs defined in agreement with the Standard relative to the graphical signs to be used on plants.

The signs are located in clearly visible positions.



#### **Attention**

The warning plates present on the appliance must not be removed.

The user is responsible for replacing warning signs that, owing to wear, become unreadable.

### 3. DISPOSAL OF WASTE MATERIAL

During normal operation, the appliance does not generate any environmental contamination. At the end of its life cycle, or if it is necessary to proceed to permanent decommissioning, we recommend following the procedures below:

#### DISPOSAL (User)



The symbol, applied to either the product or its packaging, indicates that the product should not be considered as normal domestic waste, but should be taken to a waste collection point for the recycling of electrical and electronic appliances. The correct disposal of this product helps to prevent potential negative consequences that might derive from inadequate product disposal. For detailed information about recycling this product, contact your council, your local waste collection service or the store where you purchased the product.

#### PROCEDURE FOR DISPOSAL and RECYCLING AT THE END OF APPLIANCE LIFE SPAN (Authorised Bodies)

##### Foreword

During the period of use, the appliance subject of this manual, is an integral part of a cooling plant, an electric plant and a hydraulic plant (drain lines). At the end of the life cycle, the appliance must first be completely disconnected from all plants mentioned above, in compliance with methods and procedures that are the responsibility of the operator of the plants and whose description lies outside this manual.

Once disconnected, perform the following procedures:

1. Check that the appliance is disconnected from the electric plant (cables disconnected) and from the cooling plant (piping cut and opened on the input and output sides).
2. Remove the lamps (if installed). These should be disposed of separately.
3. Remove the power units and the electronic cards. These should be disposed of separately.
4. Remove all the independent parts (grids, casings, profiles, etc.) and group them according to shared features in order to access the heat exchangers, pipes, cables, etc. and be careful not to damage the cooling circuit.
5. Remove all mobile parts (doors, sliding doors, glass parts, etc.) and group the various materials according to their features.
6. Disconnect the evaporator, condenser, compressor, pipes and fans. These are made of copper, aluminium, steel and plastic and should therefore be disposed of separately.
7. On removal of all guards and the various components from the frame, separate the different types of material making up the appliance (plastic, sheet steel, polyurethane, copper, etc) and collect them separately.



All recyclable materials and waste should be processed and recycled by professionals, in compliance with the laws in the country in question.

The company responsible for recycling the materials should be registered and certified as a waste disposal service in accordance with the country in question



##### Attention

Illegal disposal of the product by the owner will result in administrative sanctions as required by current laws.  
Disposal of the product should comply with current laws on the disposal of coolant liquids and mineral oils.



##### Important

If the crossed wheeled bin sign is not present on the appliance, it means that the disposal of the product is not the manufacturer's responsibility. In this case, the Regulations regarding the disposal of waste in force are valid.



##### Additional information

Further information on the disposal of liquid coolant, oils and other substances is available on the safety data sheet corresponding to the substance itself.

In order to dispose of foamed assemblies, remember that the polyurethane foams used are CFC, HFC and HCFC free.

## 4. INSTALLATION

This manual supplies the information necessary for correct unpacking, procedures for positioning and connection to mains electricity.

### 4.1 Storage and unpacking

The appliance, with or without the packaging, should be carefully stored inside warehouses or in areas away from the elements and direct sunlight, at a temperature between 00 and +40 °C.



The appliance should only be moved by qualified personnel operating forklift trucks, the power of which should be suited to handling the weight of the product: during this operation the appliance **MUST** be placed on the special pallet supplied.

For the specifications to follow regarding the lifting truck and for the unpacking operations, refer to the instructions attached.

All packaging materials are recyclable and should be disposed of in accordance with local regulations. Please destroy "plastic" bags to prevent them from becoming hazardous to children (suffocation).

### 4.2 Installation, positioning and ambient conditions



#### Attention

Position the appliance away from heat sources (radiators, stoves of all types, etc.) and away from the effects of continuous currents of air (e.g. caused by fans, air conditioning vents, etc.).

Also avoid exposure to direct sunlight; all of this causes the temperature inside the refrigerated compartment to rise with negative consequences on operation and energy consumption. Do not use the appliance outdoors and do not leave it exposed to rain.

### 4.3 Electrical connection



#### Attention

Remember that the electric connection of this appliance and its connection as a utility in an entire electric plant must be performed by a qualified installer, who must produce suitable certification of compliance. Check that the voltage indicated on the appliance is the same as the value on the appliance identification label and in the table provided in paragraph 1 of this manual, and check that the required voltage is suitable.

The plant power supply socket must be fitted with a disconnection device from the mains electricity (dimensioned to the load and in compliance with Standards in force), which guarantees complete disconnection in category III (3) over-voltage conditions and therefore protects the circuits against earth faults, overloads and short circuits.

Do not route the electricity cable in passageways.



#### Attention

Earthing is necessary and mandatory by law.



#### Attention

This cabinet is fitted with antisweat heaters, mainly placed in the doorframe, which have been designed and sized to work under continuous power supply. The use of "on/off economizer" devices in the upstream lines of the heaters may bring to malfunctions and/or early damages: **we therefore strongly advise not to use them.**

## 5. TECHNICAL SPECIFICATIONS

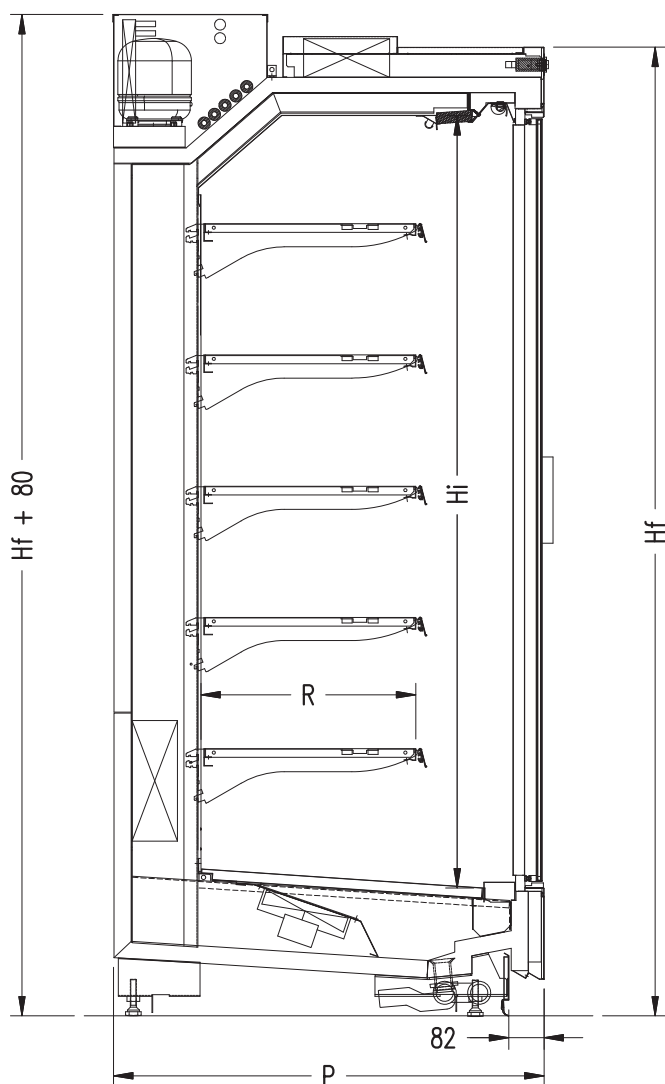
This appliance is exclusively intended to **display and sell cheeses, milk products and/or fresh pre-packed products**.

The manufacturer is not liable for injury to persons or damage to property or the appliance itself caused by the displaying of products other than those described above.



### Uses not allowed:

- Food preservation.
- Displaying and/or preserving non-food products (chemicals, pharmaceuticals, etc...).



			P	Hf	Hi	R max
			mm			
P100	H205	mm	1000	2050	1590	500
	H225	mm	1000	2250	1790	500
P115	H205	mm	1145	2050	1590	600
	H225	mm	1145	2250	1790	600

**PANDA**

USE AND MAINTENANCE MANUAL

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EN

## 5. TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		Dimensions (pxH)	Length (without ends)	Thickness back	TDA (Total Display Area)	Net weight (without ends)	Climatic Class	Environmental conditions	Performance	Defrost
equipment	shelves	mm	mm	mm	m <sup>2</sup>	Kg	-	°C / %	-	
PANDA 100/205	125	1000 x 2050	1250	40	1,65	348	3	25° / 60	M1/M2/H	off-cycle
PANDA 100/205	250	1000 x 2050	2500	40	3,31	597	3	25° / 60	M1/M2/H	off-cycle
PANDA 100/205	375	1000 x 2050	3750	40	4,96	861	3	25° / 60	M1/M2/H	off-cycle
PANDA 100/225	125	1000 x 2250	1250	40	1,84	373	3	25° / 60	M1/M2/H	off-cycle
PANDA 100/225	250	1000 x 2250	2500	40	3,69	640	3	25° / 60	M1/M2/H	off-cycle
PANDA 100/225	375	1000 x 2250	3750	40	5,53	919	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/205	125	1145 x 2050	1250	40	1,71	361	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/205	250	1145 x 2050	2500	40	3,42	622	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/205	375	1145 x 2050	3750	40	5,13	899	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/225	125	1145 x 2250	1250	40	1,90	386	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/225	250	1145 x 2250	2500	40	3,80	665	3	25° / 60	M1/M2/H	off-cycle
PANDA 115/225	375	1145 x 2250	3750	40	5,70	957	3	25° / 60	M1/M2/H	off-cycle

TECHNICAL SPECIFICATIONS		Power supply [V / ph / Hz]	electrical power standard [W]				electrical power defrosting [W]			
(LED light)	colour/number light (#)		light LED Philips		light LED standard		light LED Philips		light LED standard	
banco			version ARIA	version H2O	version ARIA	version H2O	version ARIA	version H2O	version ARIA	version H2O
PANDA 100 - 115	125	R	700	450	691	441	50	50	41	41
PANDA 100 - 115	125	R	750	500	736	486	100	100	86	86
PANDA 100 - 115	125	R	760	510	745	495	110	110	95	95
PANDA 100 - 115	125	R	770	520	754	504	120	120	104	104
PANDA 100 - 115	125	W	711	461	691	441	61	61	41	41
PANDA 100 - 115	125	W	791	541	716	466	141	141	66	66
PANDA 100 - 115	125	W	807	557	721	471	157	157	71	71
PANDA 100 - 115	125	W	823	573	726	476	173	173	76	76
PANDA 100 - 115	250	R	1386	886	1368	868	86	86	68	68
PANDA 100 - 115	250	R	1486	986	1458	958	186	186	158	158
PANDA 100 - 115	250	R	1506	1006	1476	976	206	206	176	176
PANDA 100 - 115	250	R	1526	1026	1494	994	226	226	194	194
PANDA 100 - 115	250	W	1408	908	1368	868	108	108	68	68
PANDA 100 - 115	250	W	1568	1068	1418	918	268	268	118	118
PANDA 100 - 115	250	W	1600	1100	1428	928	300	300	128	128
PANDA 100 - 115	250	W	1632	1132	1438	938	332	332	138	138
PANDA 100 - 115	375	R	2086	1336	2059	1309	136	136	109	109
PANDA 100 - 115	375	R	2236	1486	2194	1444	286	286	244	244
PANDA 100 - 115	375	R	2266	1516	2221	1471	316	316	271	271
PANDA 100 - 115	375	R	2296	1546	2248	1498	346	346	298	298
PANDA 100 - 115	375	W	2119	1369	2059	1309	169	169	109	109
PANDA 100 - 115	375	W	2359	1609	2134	1384	409	409	184	184
PANDA 100 - 115	375	W	2407	1657	2149	1399	457	457	199	199
PANDA 100 - 115	375	W	2455	1705	2164	1414	505	505	214	214

(#): L = luce frontale - canopy light, S = luce soffitto - ceiling light, R = luce ripiano - shelf light, R = rosata - meat colour, W = bianca - white

## 5.1 Installation and Levelling

The installation of the apparatus involves the formation of channels as that described in figure, typically consisting of one or more counters and from the shoulders of the ends.

If the channel were to be installed against walls, the minimum distances of:

- 100 mm / 300 mm posterior versions respectively for water / air; to meet this distance for versions air is advisable to mount the rear spacer as shown in the annex to this manual.
- 500 mm between the back and side walls.

Once unpacked and placed in the ground equipment, approach and level them taking them at the same height.

Channeling then adjoining equipment (1-2 and 2-3) by following the instructions laid down in annex.

If they were not already pre-assembled, mount the shoulders S and D according to the instructions attached.

Once installation is complete, ensure stability and leveling using the adjustable feet (all of which must touch the ground).



**Warning:**

It is absolutely necessary after placement level l' equipment to the floor.



**Warning:**

E' assolutamente necessario dopo il posizionamento livellare l' apparecchiatura a pavimento.



S	1	2	3	D
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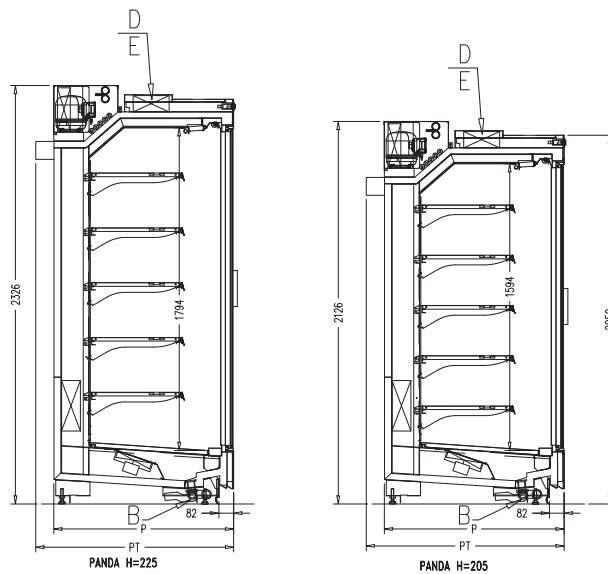
**PANDA**

USE AND MAINTENANCE MANUAL

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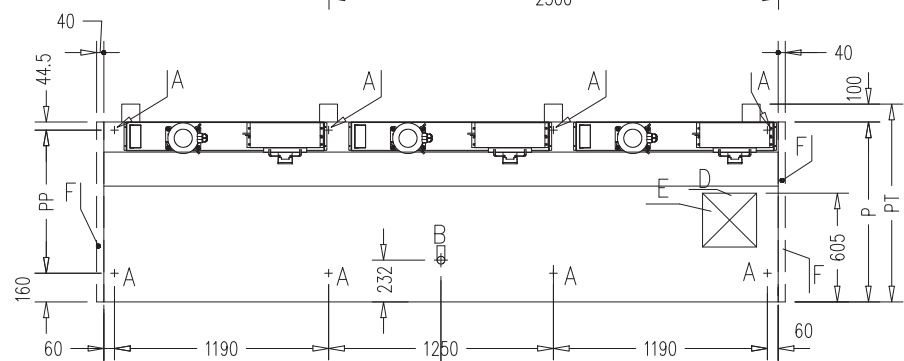
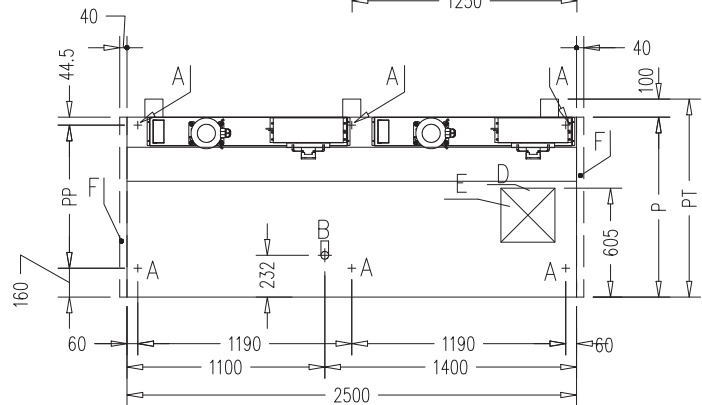
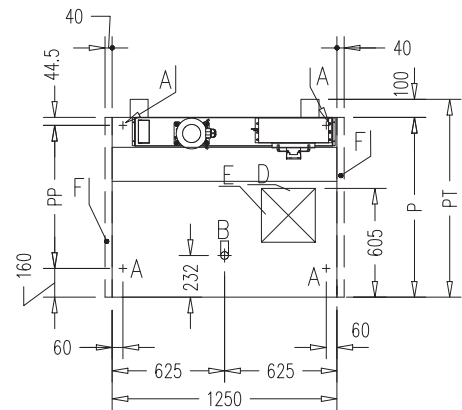
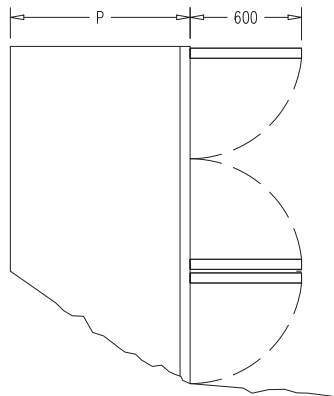
EN

## 5.2 Technical plan - AIR cooled



	P100	P115
P	1000 mm	1145 mm
PT	1100 mm	1245 mm
PP	795.5 mm	940.5 mm

A	Cabinet feet	● 32 mm
B	Drain pipe	Ø 40 mm
D	Terminal box	
E	Control board	
F	Standard endwall (optional)	

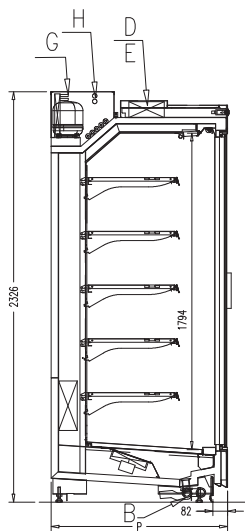


### PANDA

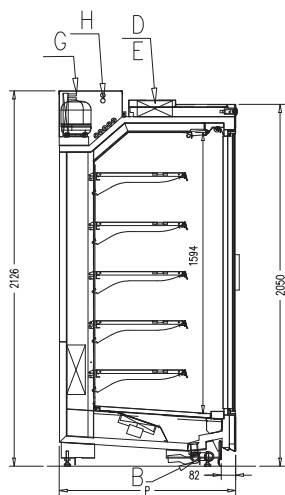
USE AND MAINTENANCE MANUAL

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## 5.2 Technical plan - WATER cooled



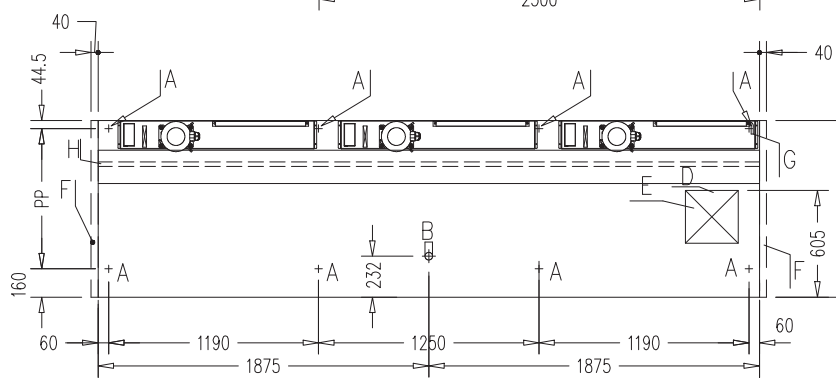
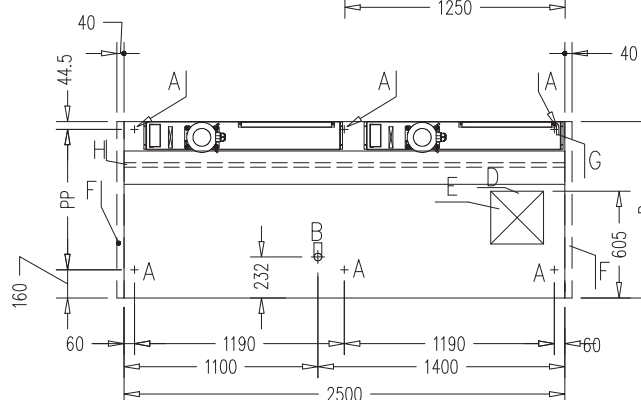
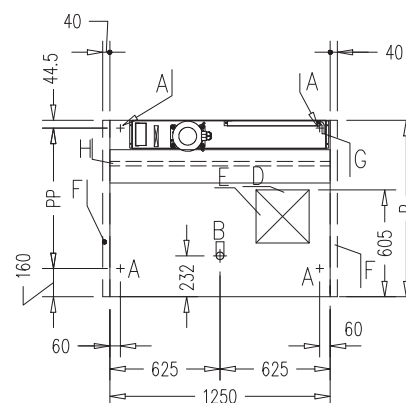
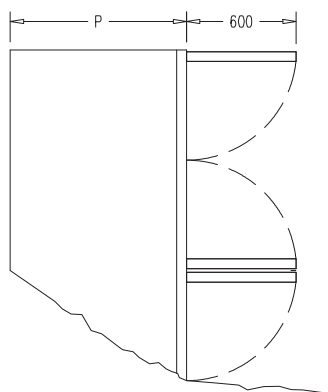
PANDA H=225



PANDA H=205

	P100	P115
P	1000 mm	1145 mm
PP	795.5 mm	940.5 mm

A	Cabinet feet	● 32 mm
B	Drain pipe	Ø 40 mm
D	Terminal box	
E	Control board	
F	Standard endwall (optional)	
G	H2O IN / H2O OUT	1/2" F
H	Piping H2O	



**PANDA**

USE AND MAINTENANCE MANUAL

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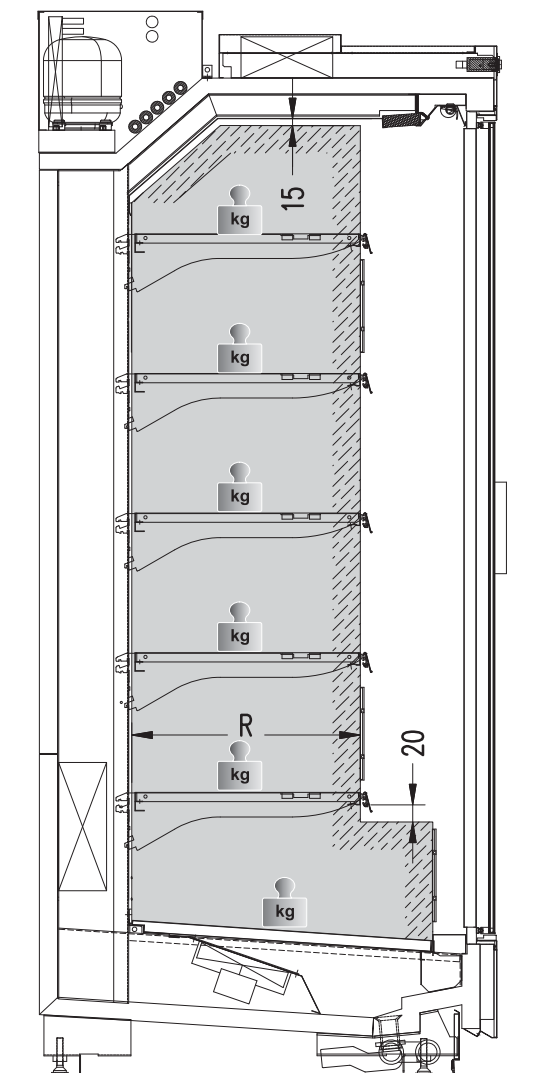
## 5.3 Load limits



### Attention

It is fundamental not to exceed the load limits indicated in order not to alter the correct air circulation and thus prevent a high product temperature.

The limits indicated refer to a static and evenly distributed load. Therefore dynamic overloads due to violent loading operations are excluded, which must be prevented for safety reasons.



## 5.4 Shelf load limits (max)



Shelves: **165 Kg/m<sup>2</sup>**

Bottom plates: **165 Kg/m<sup>2</sup>**

The maximum number of shelves is that represented in the silhouette shown in the manual



### Attention

It is absolutely necessary to respect the weight limits indicated for each shelf in order to prevent the deformation or breakage of the shelves themselves.

## 5.5 Connecting the water line (water cooled)

If provided in the condensation water, the device provides for the connection to an external line with water at **P<sub>max</sub> <4 bar**.

The following table shows the data required for the sizing of the line and the external cooling system.

version	-	Panda water cooled condensation	
		chilled water	air-cooled water
T <sub>in</sub> (min/max)	[°C]	5 / 15	25 / 35
T <sub>outdoor</sub> (min/max)	[°C]	n/a	20 / 30
T <sub>in</sub> (nominal)	[°C]	13	33
T <sub>out</sub> (nominal)	[°C]	20	40
Flow rate L=125	[m <sup>3</sup> /h]	0,1	0,1
Flow rate L=250	[m <sup>3</sup> /h]	0,2	0,2
Flow rate L=375	[m <sup>3</sup> /h]	0,3	0,3
Pressure drop	bar	0,5	0,5



### Attention

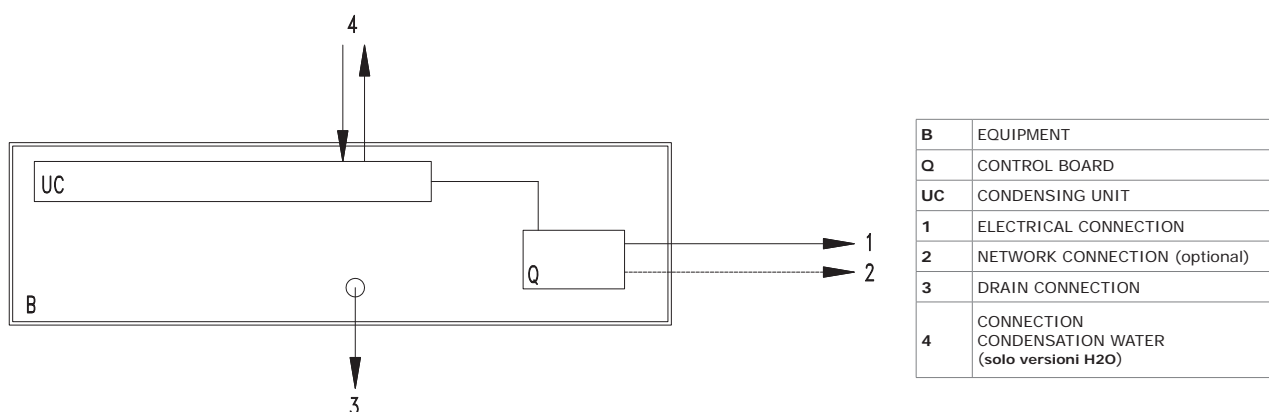
The unit on board equipment is not equipped with a control system of the water freezing.  
In the case of water-cooled chiller is equipped to ensure that the controls anti-freeze.

## 6. DESCRIPTION OF THE APPLIANCE

To ensure the operator's safety, appliance devices should be kept in constant working order. Regarding this, the manual has the purpose of illustrating use and maintenance of the appliance and the operator has the responsibility and the duty to respect it scrupulously.

### 6.1 Composition

Once the appliance is installed, it is an integral part of the electric plant, a cooling plant and a hydraulic plant and can be schematized according to the following layout.



The appliance is made up from:

- an external support structure.
- insulation in ecological polyurethane.
- an internal support structure.
- internal display sheets.
- an electric plant that refers to a connection terminal board to the electric plant.
- a control board.
- a condensing unit to **R744 (CO<sub>2</sub>)** which, in the case of versions to water, is connected to a circulation system and cooling water.
- a system for collecting condensation water that ends on a drain connection to the hydraulic.

### 6.2 Refrigerant R744 (CO<sub>2</sub>)

The refrigerant **R744 (CO<sub>2</sub>)** is a gas that is compatible with the environment. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.

#### IN THE EVENT OF DAMAGE:

Keep away from the flame or ignition sources. Properly ventilate the premises for a few minutes. Turn the unit off, pull the plug. Inform customer support service.

#### WARNING

The refrigerant system is **High Pressure**. Do not tamper with the system, but call a specialised and qualified technician before disassembly. Maintenance must be performed exclusively by qualified staff.



**HIGH PRESSURE**

## 6.3 Identification

1

2

Ord. Prod. Prod. Ord. 3 Tipologia Type 4

Modello Model 5

Articolo Article 6

Matricola Nr. Serial Number 7 Data Prod. Prod. Date 8 psig min: psig max:

V 9 ~ 10 Hz Capacità lorda Gross volume 11

12 W 13 W 14 W

15 W 16 A Classe Class 17

18 Nr 19 20 Kg Classe Class 21

Ordine Cliente Customer order 22 23

Foaming gas: CO<sub>2</sub> 24

1	Symbols of Compliance
2	Identification of the Company Product Manager
3	Production Order
4	Type
5	Model Name
6	Article
7	Serial Number
8	Production Date
9 - 10	Power supply - Voltage and Frequency
11	Gross Capacity
12	Absorption at Rated Capacity
13	Absorption during Defrosting
14	Absorption of Heating Elements
15	Lamp Power
16	Fuse Value
17	Climate Class
18	Number of Motors
19	Type of Coolant
20	Amount of Coolant
21	Safety Class
22 - 23	Customer order
24	WEEE Mark

## 7. CONTROL PANEL



Switch-on/off  
lights on the counter

Key lights Optional.

In the control panels with  
CAREL controller, and  
ELIWELL DIXELL the button  
lights are integrated in the  
keys of the same units.



The counter subject of this manual, can be fitted with an electronic command and supervision unit which, even being an integral part of the appliance, is provided with a separate manual to be consulted for all details.

## 8. CLEANING

### 8.1 Inside the cabinet

a) Remove the product contained in the cabinet and put it immediately in a relevant cold storage container in order to guarantee correct preservation.

b) Switch the appliance off.

Wait at least 4 to 6 hours, until the ice on the evaporator has melted completely, before proceeding with cleaning operations. We recommend waiting until the following day to make sure the product has been completely defrosted.

c) Wash the bottom of the tank and the sides with a mild detergent, warm water and a cloth or a non-abrasive sponge.

Rinse well and dry using a cloth.

d) Whenever the appliance is fitted with drain, allow warm water to run through containing a suitable sanitizing solution. The amount of solution to use must be such to ensure perfect removal of any product residues and correct sanitization along the entire drainage route.

If the appliance is not connected to a drain channelled into the ground, follow the procedure described in the previous paragraph. The water used to rinse the solution should be collected in the tray located inside the base of the appliance. Clean and disinfect the collection tray.

### 8.2 External

The following surfaces must be cleaned as follows:

#### STAINLESS STEEL

Only use warm water and non-aggressive detergents and then rinse and dry using a soft cloth.

#### ACRYLIC OR POLYCARBONATE SURFACES

Wash with lukewarm water, using a soft cloth or a chamois cloth.

Do not use detergents, alcohol, acetone or solvents.

Do not use abrasive cloths or sponges.

#### GLASS SURFACES

Only use products specifically designed for cleaning glass.

We do not recommend using tap water, which may leave calcium deposits on the surface of the glass.

### 8.3 Condenser (air)

To access the condenser, turn off the device, wait a few hours until the equipment of condensing unit has reached a temperature close to that of the environment; then remove the top cover and proceed to clean.

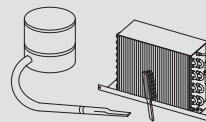


#### Attention

Clean the condensing unit using a suction brush.



Clean the **condenser** with a soft bristle brush;

make sure you do not bend the condensing unit springs whilst cleaning it.





## 9. MAINTENANCE

The **Staff in charge of the appliance** must control and respect the expiry dates for maintenance, given in the table below, calling the authorised **Technical After-sales assistance** when indicated.

OPERATION	FREQUENCY				ORDINARY	EXTRAORDINARY	AUTHORISED PERSONNEL
	Depending on the Use and Necessity	Monthly	six-month	Annual			
CLEANING THE EXTERNAL SURFACES	X				X		USER
CLEANING THE ACCESSIBLE INTERNAL PARTS (without the use of tools)	X				X		
CONTROL POWER SUPPLY CABLE, PLUGS AND / OR ELECTRICAL SOCKETS			X		X		
INTEGRITY CONTROL SEAL		X			X		
FILTER CLEANING CONDENSING UNIT (whenever present)			X		X		
CLEANING THE DEFROSTING WATER COLLECTION TRAY	X				X		 TECHNICAL ASSISTANCE SERVICE
CONDENSER CLEANING	X			X	X		
CHECK COMPRESSORE OIL LEVEL (whenever present)			X		X		
AIR TANK DRAINING (whenever present)			X		X		
CONTROL PNEUMATIC CONNECTIONS (whenever present)			X		X		
INTEGRITY CONTROL PIPE COOLING SYSTEM			X		X		
INSPECTION OF CABLES INTERNAL CONNECTIONS AND POWER			X		X		
CLEANING CONDENSATE DRYING SPONGES (whenever present)			X		X		
LAMP / LED REPLACEMENT (whenever present)						X	
CONTROL PANEL REPLACING (electronic control unit - thermostat - etc)						X	
REPLACEMENT POWER SUPPLY CABLE, PLUGS AND / OR ELECTRICAL SOCKETS						X	
<div>Attention</div> <div></div> <div>After all maintenance it is <b>mandatory</b> to perform all electric safety tests in agreement with the IEC EN 50106 Standard.</div>							

## 10. FAULTS - TECHNICAL AFTER-SALES ASSISTANCE

If the appliance is not working properly or stops working, **before contacting** the **Customer support centre**, check the following:

FAULT	CAUSE	SOLUTION	AUTHORISED PERSONNEL
<b>THE APPLIANCE IS NOT WORKING</b>	Blown protective fuse	Previously find the cause of the intervention of the switch, and then re-introduce the new fuse.	<b>USER</b>
	The master switch is open	Close the master switch.	
	The plug is not inserted	Insert the plug.	
	Electric black-out	If the black-out should be prolonged, transfer the product into an appropriate cold storage container.	
<b>THE INTERNAL TEMPERATURE IS NOT LOW ENOUGH</b>	Evaporator/s obstructed completely by ice	Carry out an additional defrosting cycle.	<b>USER</b>
	Wrong setting temperature	Set the appropriate temperature.	
	The appliance is affected by draughts or is exposed to direct or reflected sunlight	Remove any draughts and prevent any direct or reflected sunlight.	
	Insufficient cooling air flow rate of the air condenser	Remove anything that may affect air flow inside the condensing unit (paper sheets, cardboard, grids with an insufficient number of holes, etc.).	
	Internal fans at standstill or with fans damage		<b>TECHNICAL ASSISTANCE</b> 
	Internal ventilation is too high		
	Thermostat / Electronic control unit is not efficient	Replace the electronic control board. If the control unit is set up especially for must <b>R290</b> refrigerant, it must only be replaced with an original replacement from ISA. Replace the temperature probes only after checking which of the two is not operating efficiently.	
	Air condenser blocked by dust or dirt in general	Clean the condensing unit thoroughly. The air condenser or MAINTENANCE FREE, in particular heavy environments (eg presence of dust, the presence of excessive moisture, oiled vapours etc..) in order to avoid performance loss, needs accurate cleaning.	
	Insufficient refrigerant load in the cooling system	Find the cause behind the lower amounts of coolant and eliminate it. Top up the coolant. If necessary, empty the system before topping up.	
<b>THE COMPRESSOR DOES NOT START-UP OR OPERATES FOR A FEW MOMENTS</b>	No electric power supply to the appliance	Check if there is a power cut. Close the various switches on the power supply line.	<b>USER</b>
	The power supply voltage is too low	Check that the network voltage of the power supply cable is 220V +/- 10%.	
	Temperature set too high	If the set temperature is higher than that of the air in the display area, the compressor does not activate itself. Set a more suitable temperature if the current value is not low enough	
	The pressure switch (if any) was activated at maximum pressure	Check the reasons why the pressure switch is operating at maximum pressure levels, such as: air condensing unit blocked, condensing unit fan stopped, ambient temperature too high, pressure switch broken.	<b>TECHNICAL ASSISTANCE</b> 



## 11. WARRANTY TERMS AND CONDITIONS



The seller's warranty on the equipment is valid for **12 (TWELVE) months from the date of delivery**.

The warranty includes repairs or replacements of any faulty parts due to manufacturing processes or installation after written communication has been received, stating the appliance serial number and date of installation.

All defects caused by incorrect use of the appliance, inappropriate electrical connection, normal wear (for instance compressor failure and fluorescent lamp malfunctioning that is not due to manufacturing defects), as well as calls for installation, technical instructions, adjustments and cleaning, are not included in the warranty.

If the seller's technical staff detect any tampering, unauthorised repairs or inappropriate use of appliance the warranty will be invalidated.

Shipment of components covered by the warranty is freight collect only.

Any damage to the appliance detected at the time of delivery due to transport must be reported on the same shipping note to claim compensation from the carrier.

The seller cannot be held liable in the event of damage to the preserved product due to appliance failure

**DECLARATION OF CONFORMITY**We: **ISA S.r.l.**

Via del Lavoro, 5 - 06083 - Bastia Umbra (PG)

declare under our own responsibility, that the product:

Product: **PANDA**

Serial number: .....

To which this declaration refers, is in compliance with the following:

**MACHINERY SAFETY**

General electric safety Standard EN 60335-1/Ed.2002+Modifications A11:2004,A1:2004,A12:2006,A2:2006 + A13:2008 A15:2011. Particular requirements for commercial refrigerating appliances EN 60335-2-89/Ed.2010. Standard for Measuring Electro-magnetic Fields (EMF) of Electrical Appliances EN 62233:2008, Directive 2006/95/EC of the European Parliament and the Council of 12th December 2006 on the harmonisation of the Laws of Member States relating to electrical equipment for use within certain voltage limits EN 62471/Ed.2009 Photo-biologic safety of lamps and lamp systems

**ELECTROMAGNETIC COMPATIBILITY (EMC)**

Limits and methods of measurement of radio interference characteristics of household appliances and similar motor-operated and thermal appliances, of equipment, electrical appliances and similar equipment EN 55014-1 (valid until 2009: Ed.2000+Amendments A1:2001, A2:2002 - or: Ed.2006)

Minimum requirements for household appliances, tools and similar electrical appliances EN 55014-2 (Ed.1997+Amendment A1:2001)

Part 3: Limits – Section 2: Limits for harmonic current emissions (equipment input current=16A per phase)

EN61000-3-2 (valid until 2009: Ed.2000+Modification A2:2005-or: Ed.2006) Part 3: Limits-Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current=16A EN61000-3-3 (Ed.1995+Modifications A1:2001,A2:2005)

Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test EN61000-4-2 (Ed.1995) Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test EN61000-4-4 (Ed.1995)

**PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC**

As the equipment falls into a class lower than I, it is excluded from the PED's application field (art.1 par.3.6)

**FOODSTUFF COMPATIBILITY**

Regulation (CE) N.1935/2004 of the European Parliament and of the Council dated 27 October 2004 Regulation (CE) N.2023/2006 of the Council dated 22 December, Directive 2008/39/CE of the Council dated 6 March 2008 Directive 2007/19/CE of the Council dated 30 March 2007 Directive 2005/79/CE of the Council dated 18 November 2005 Directive 2004/19/CE of the Council dated 10 March 2004 Directive 2004/1/CE of the Council dated 6 January 2004 Regulation (UE) 10/2011 of the Council dated 14 January 2011

**ROHS and WEEE**

Directive 2011/95/EC of the European Parliament and of the Council of 8th June 2011  
Directive 2002/96/EC of the European Parliament and of the Council of 27th January 2003

**REACH**

Regulation (CE) n. 1907/2006 of the European parliament and council dated 18 December 2006 concerning the recording, evaluation, authorisation and restriction of the chemical substances (REACH), which establishes a European Agency regarding chemical substances, which modifies the Directive 1999/45/CE and that repeals the Regulation (CEE) n. 793/93 of the Council and the regulation (CE) n. 1488/94 of the Commission 91/155/CEE, 93/105/CE and 2000/21/CE

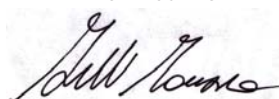
**SUBSTANCES THAT REDUCE THE OZONE LAYER**

Regulation (CE) N. 1005/2009 dated 16 September 2009 (Official Journal (OJ) of the European Union 31/10/2009 L286)  
According to the requirements set by Directives: 2006/95/EC, 2004/108/EC, 2006/42/EC, 97/23/EC

The person authorised to draw-up the Technical Folder is Mr. **Minelli Maurizio** (Technical Department Manager)  
Via del Lavoro 5 - 06083 Bastia Umbra (PG)

Bastia Umbra: **04 / 08 / 2014**  
(place and date of issue)

Minelli Maurizio

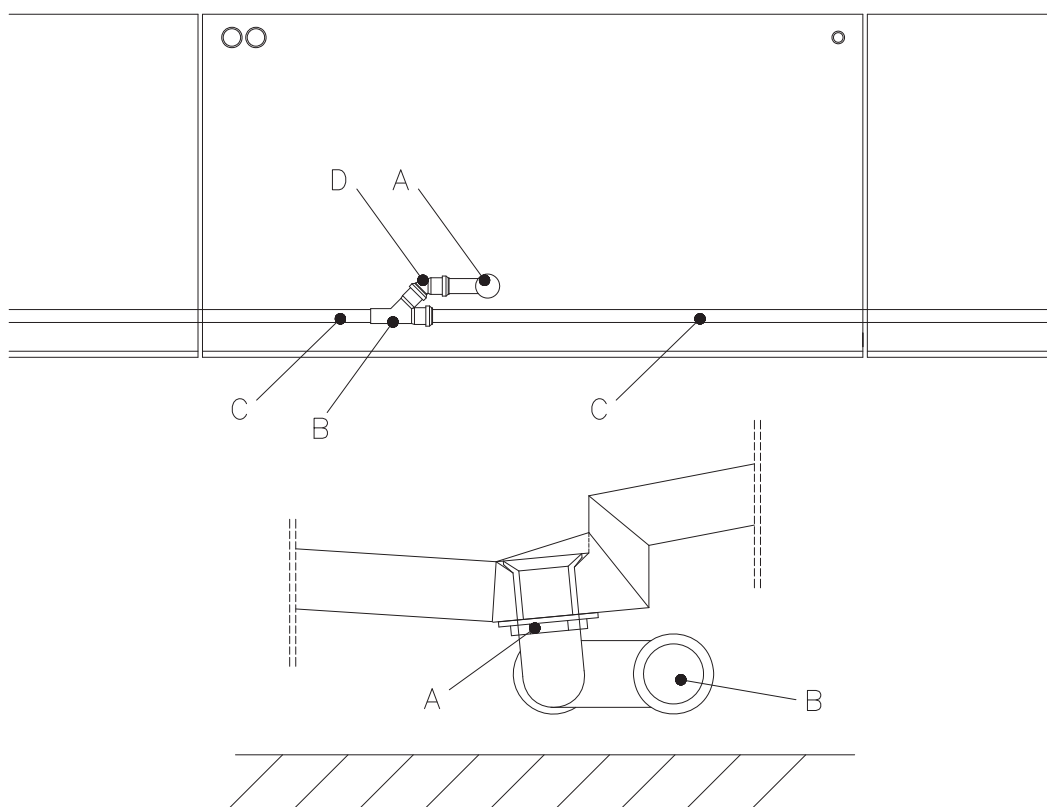
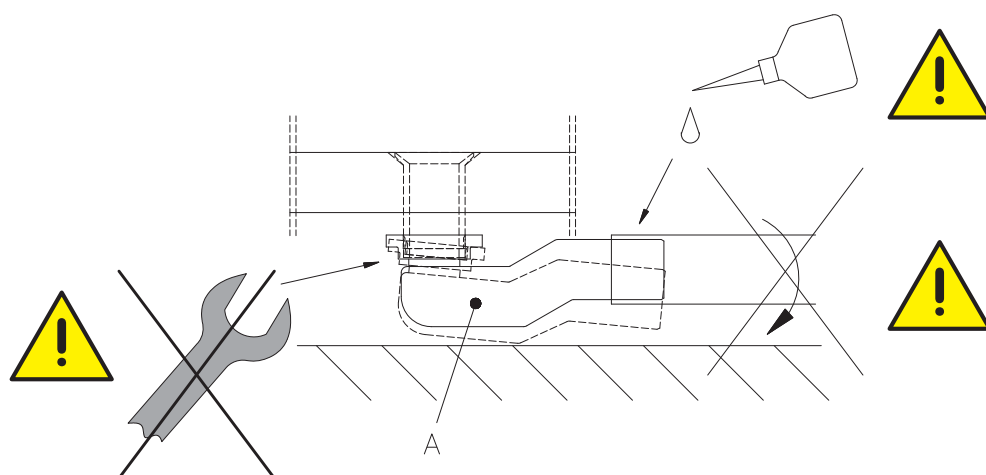
**PANDA**

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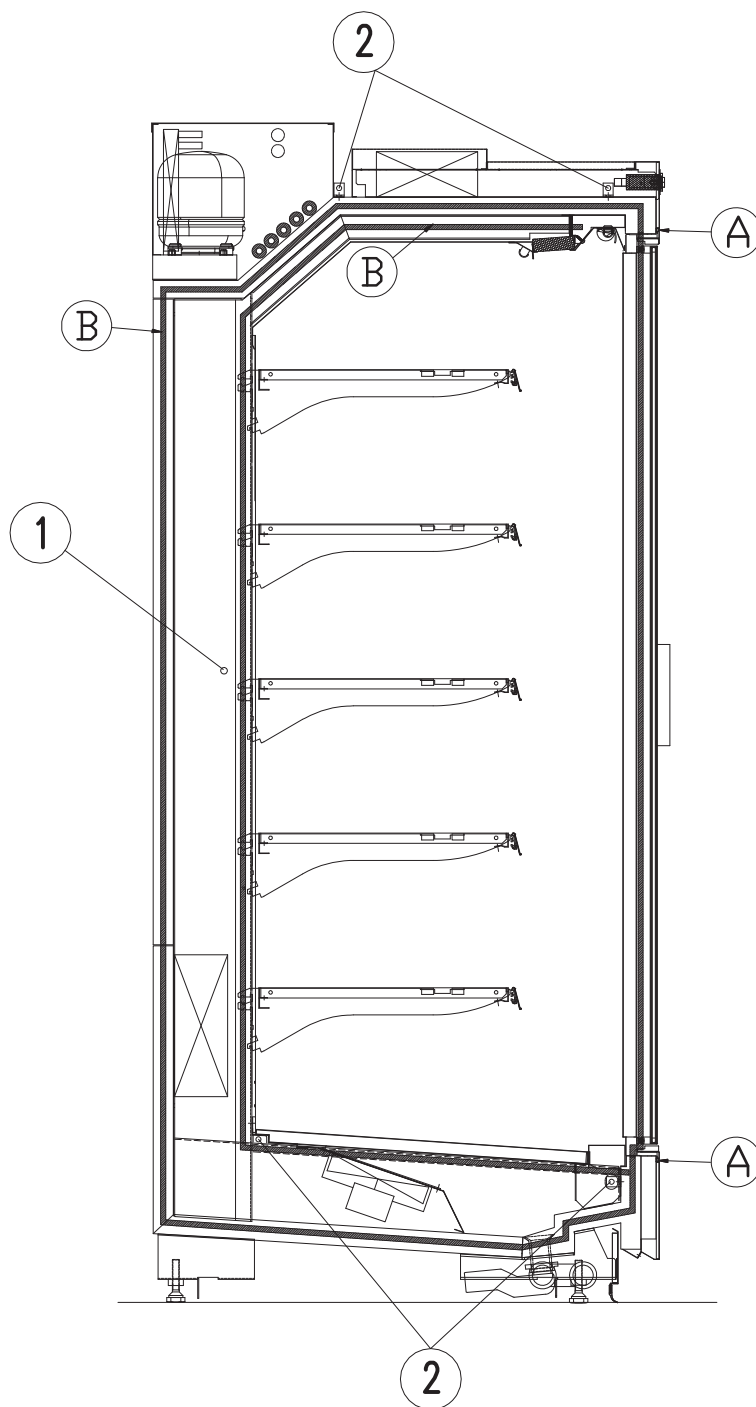
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## Attachment 2 - DISCHARGE



<b>A</b>	Discharge	Ø 40 mm
<b>B</b>	Braga - Z max: 45°	Ø 40 mm
<b>C</b>	Quick connections pipes	Ø 40 mm
<b>D</b>	Curved tube 45°	Ø 40 mm

### Attachment 3 - DUCTING



<b>1</b>	<ul style="list-style-type: none"> <li>• Screw M8x35 (rif. W9211186)</li> <li>• Nut M8 (rif. W9215124)</li> <li>• Washer Ø 8 (rif. 50030002501)</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li>• Screw M8x150 (rif. W9211131)</li> <li>• Nut M8 (rif. W9215124)</li> <li>• Washer Ø 8 (rif. 50030002501)</li> </ul>
<b>A</b>	Connecting plug - Quantity 2
<b>B</b>	Sponge tape 10x10 mm

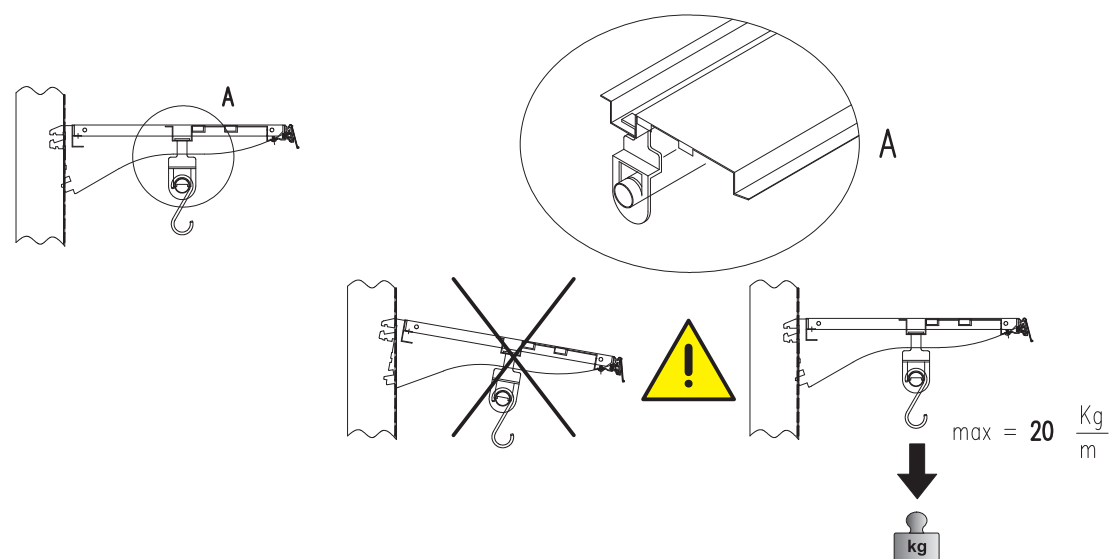
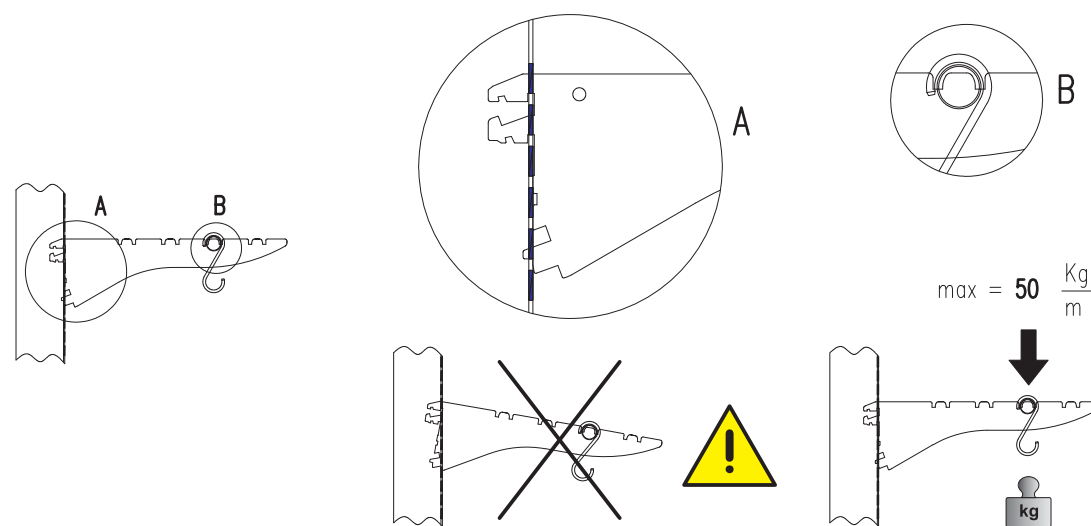
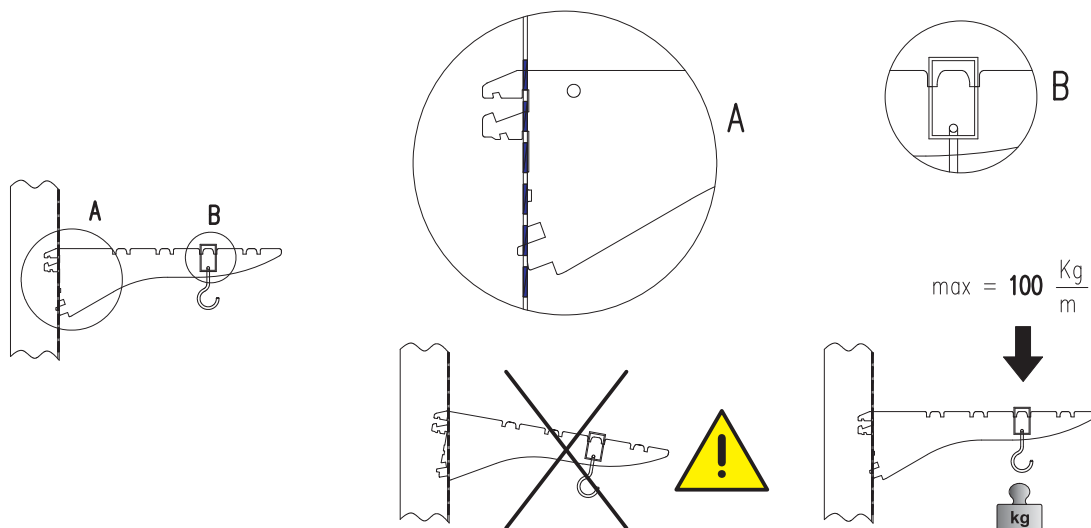
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USE AND MAINTENANCE MANUAL

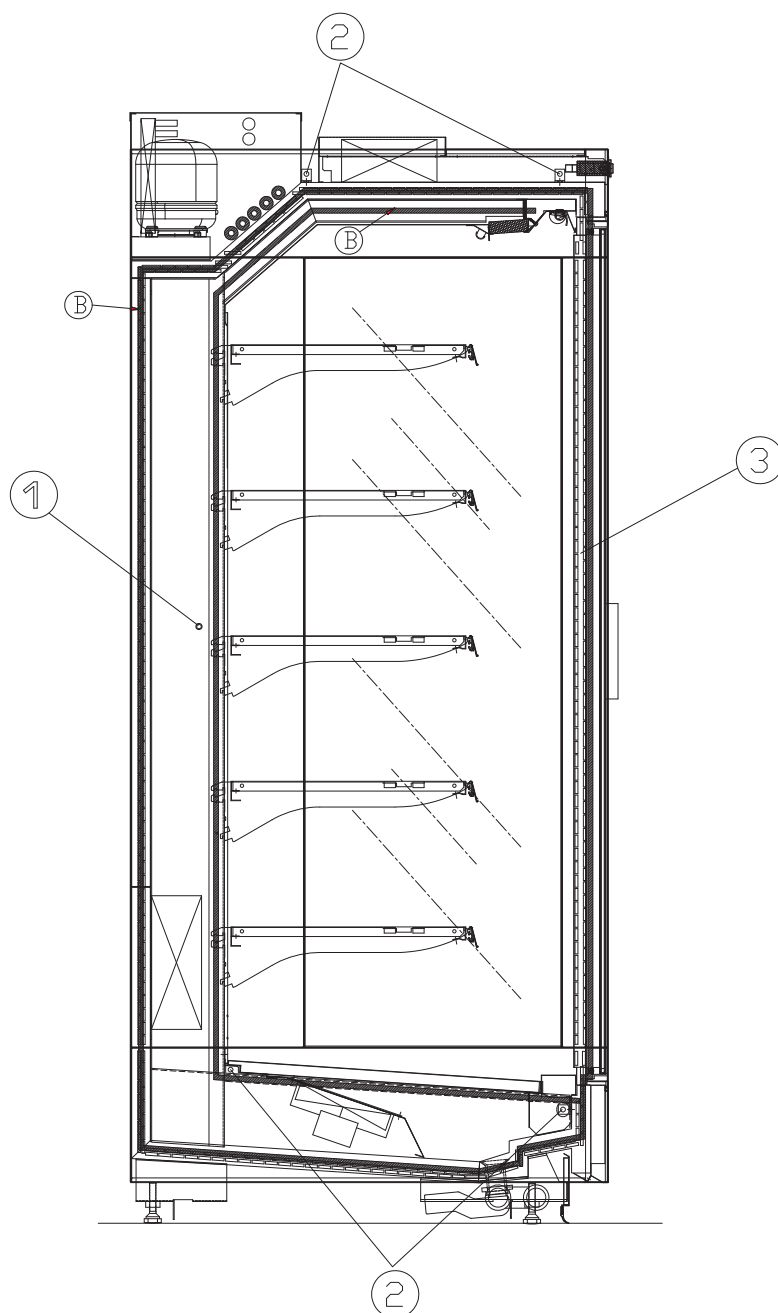
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# Attachment 4 - BRACKETS



## Attachment 5 - SIDE ASSEMBLY



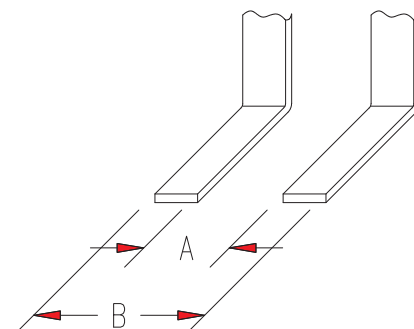
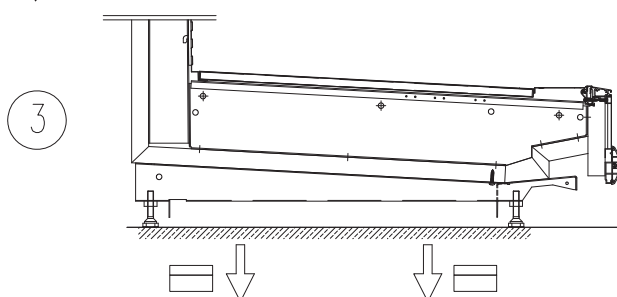
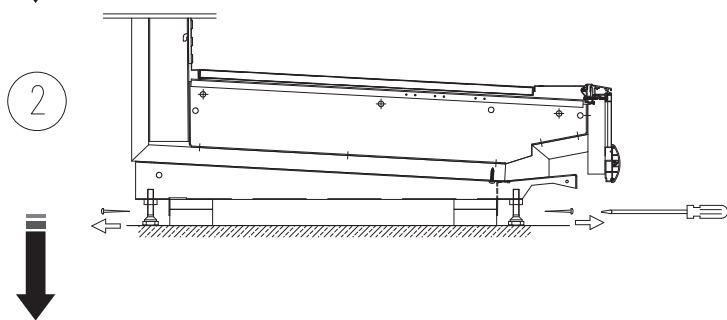
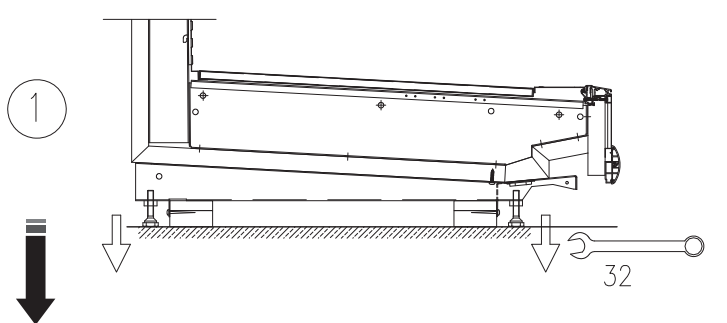
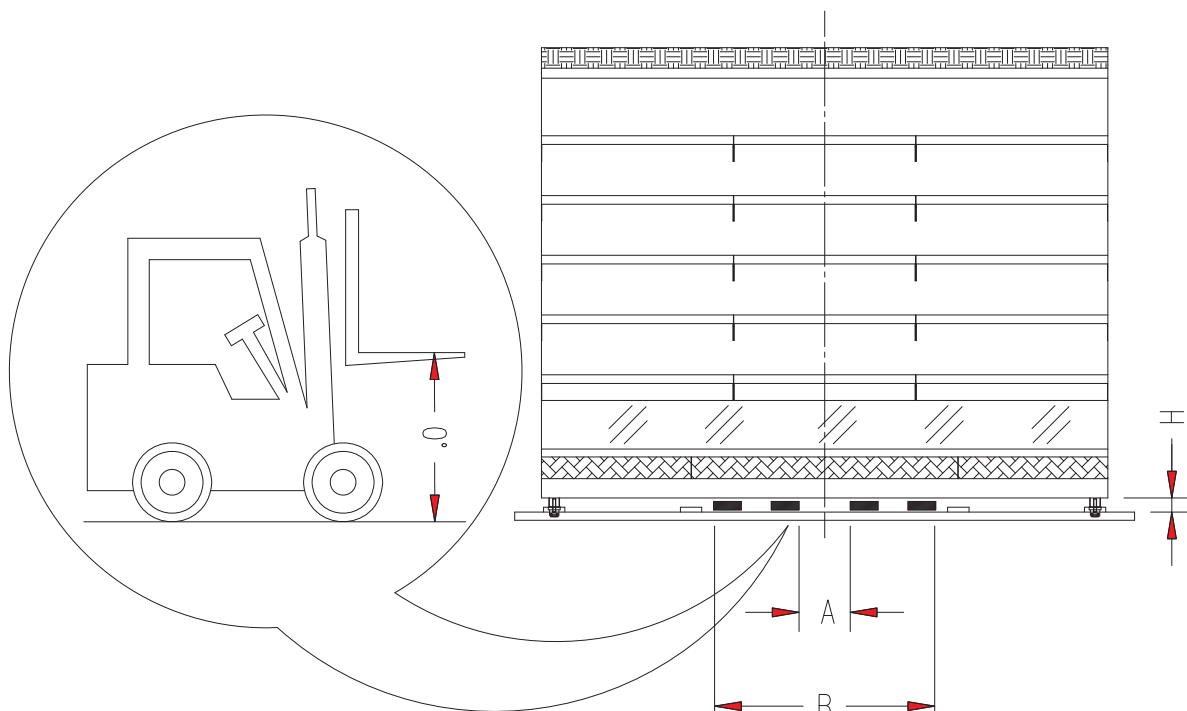
1	<ul style="list-style-type: none"> <li>Screw M6x30 (rif. 50010804709)</li> </ul>
2	<ul style="list-style-type: none"> <li>Screw A-FOR M5x70 (rif. W9211983)</li> <li>Nut M8 (rif. W9215124)</li> <li>Washer Ø 8 (rif. 50030002501)</li> </ul>
3	Bolts included frame doors
B	Sponge tape 10x10 mm

**PANDA**

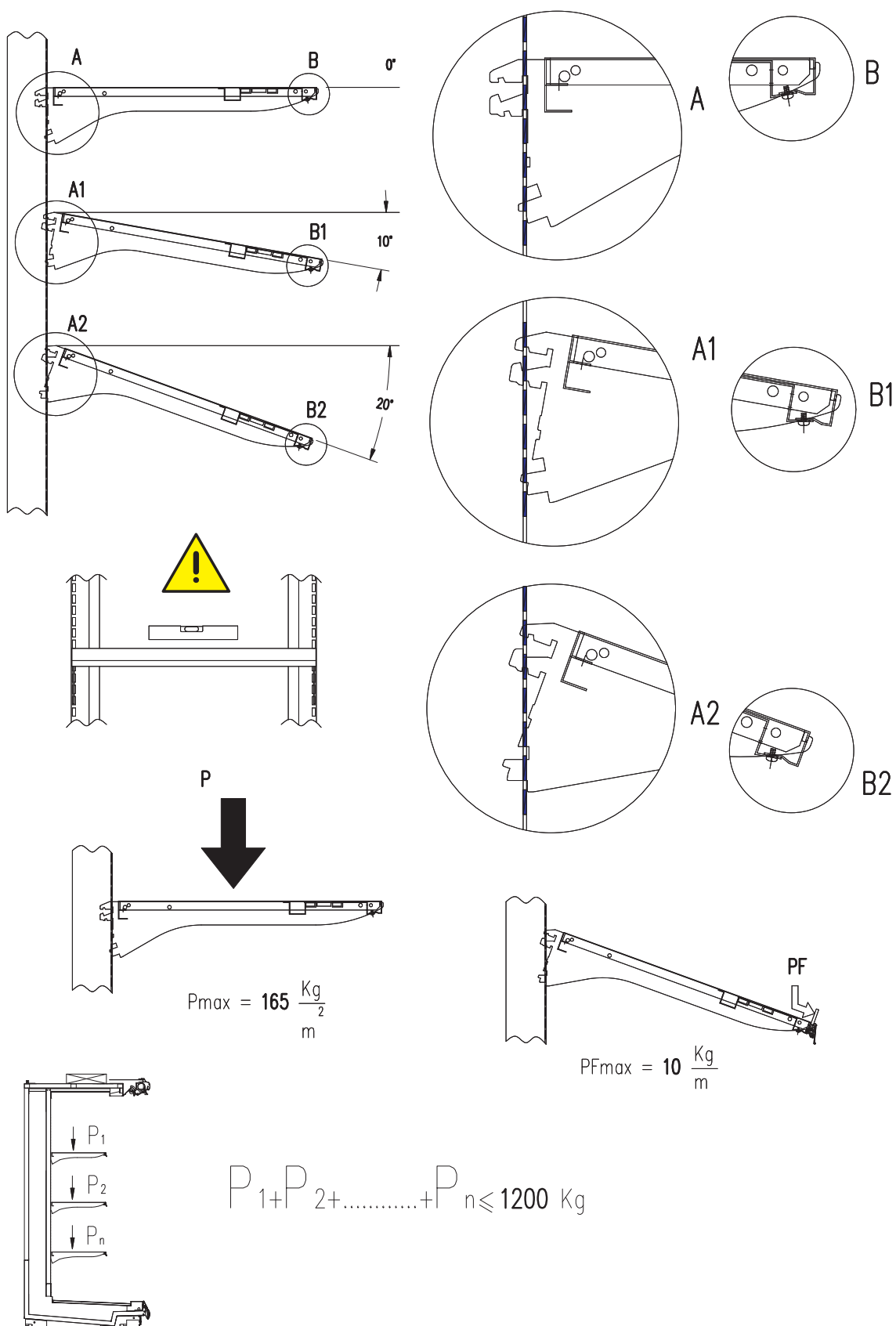
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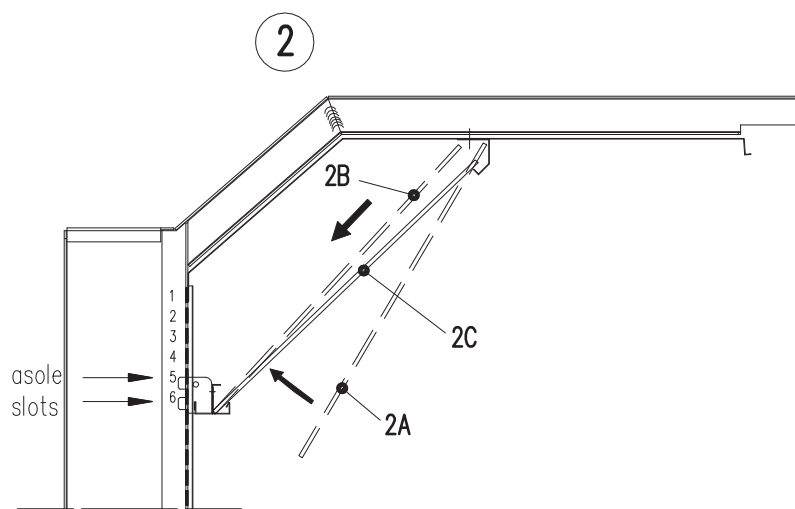
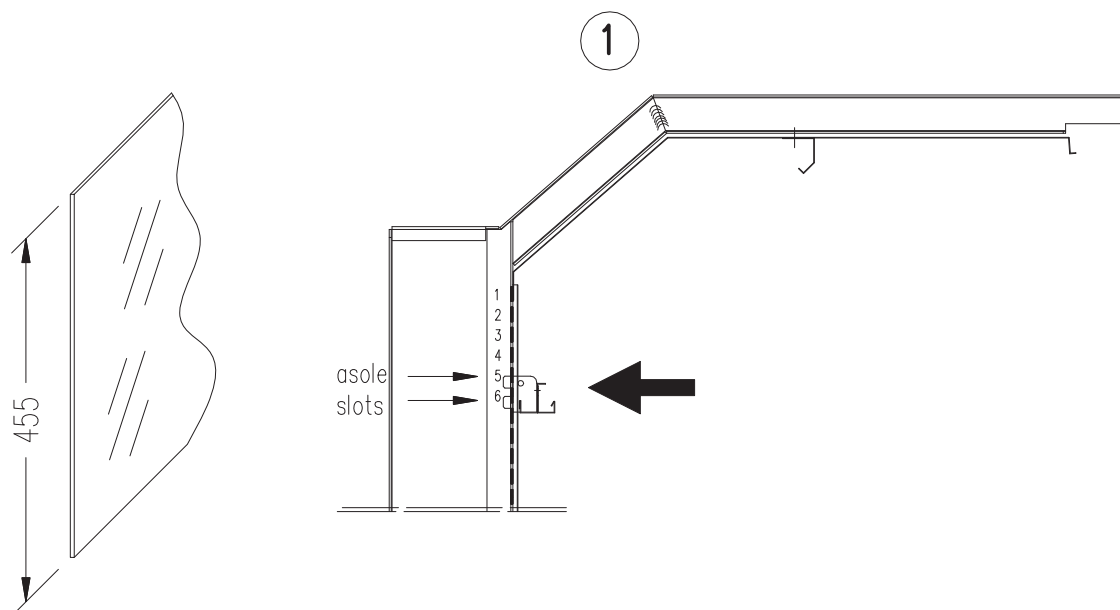
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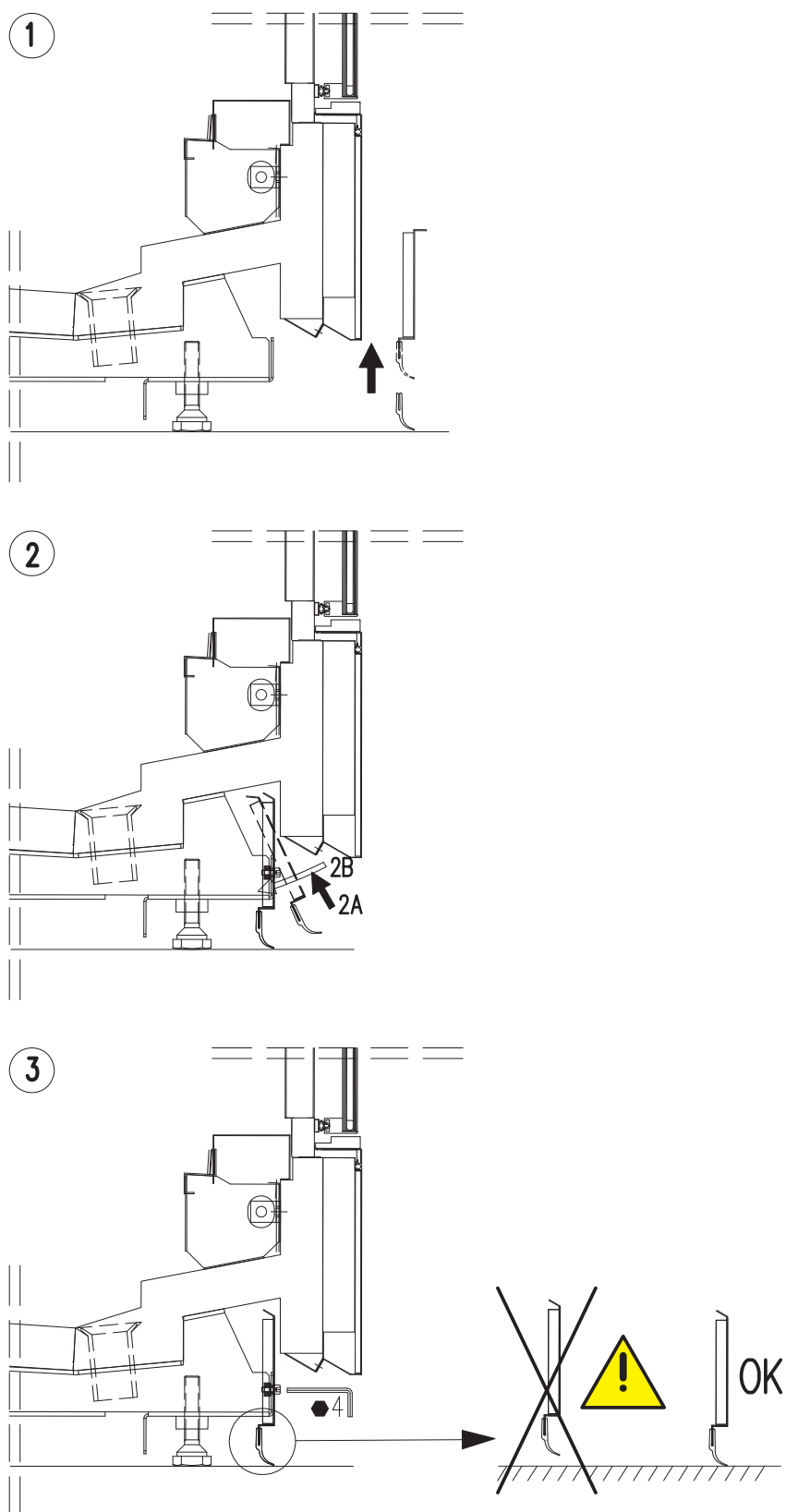


	Min.	Max
A	390	—
B	—	1010
H	66	

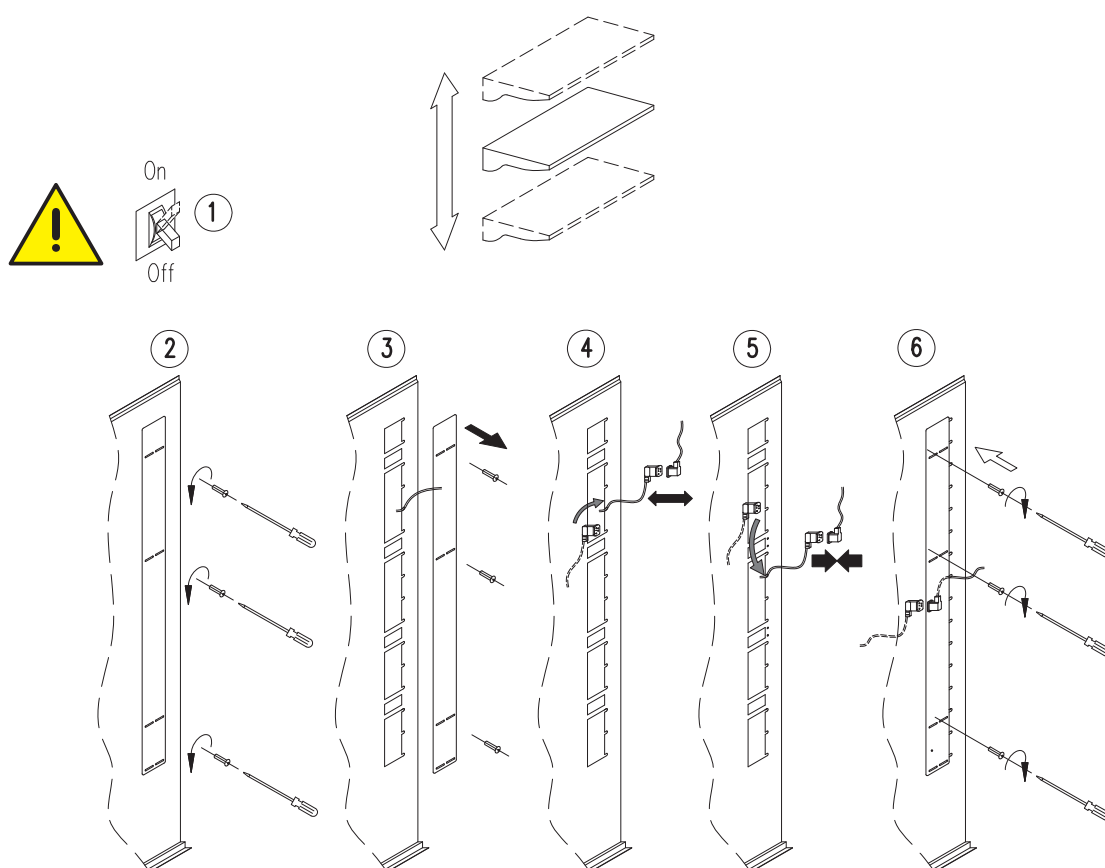
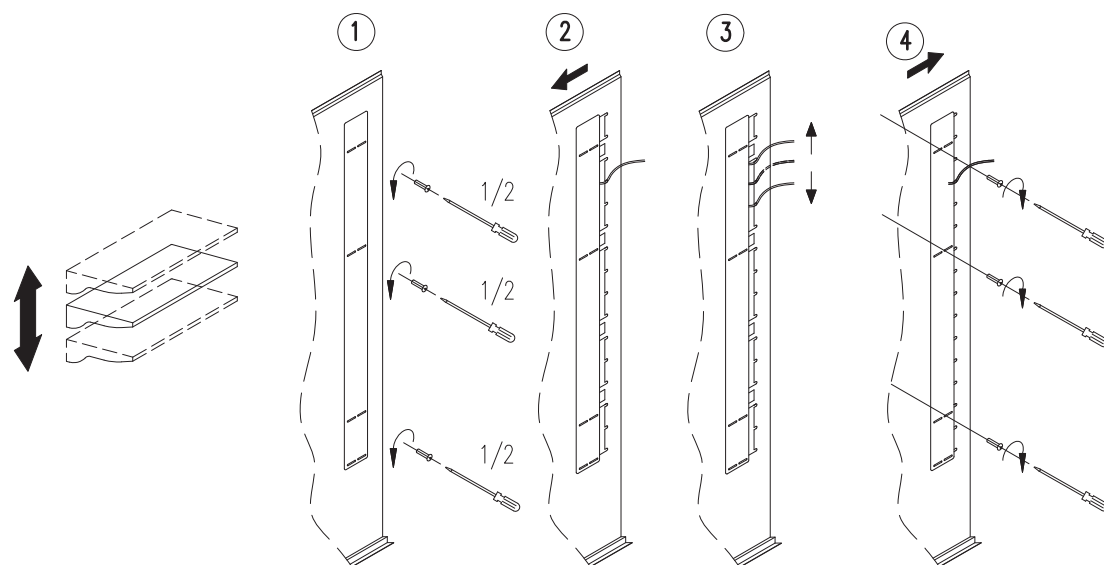




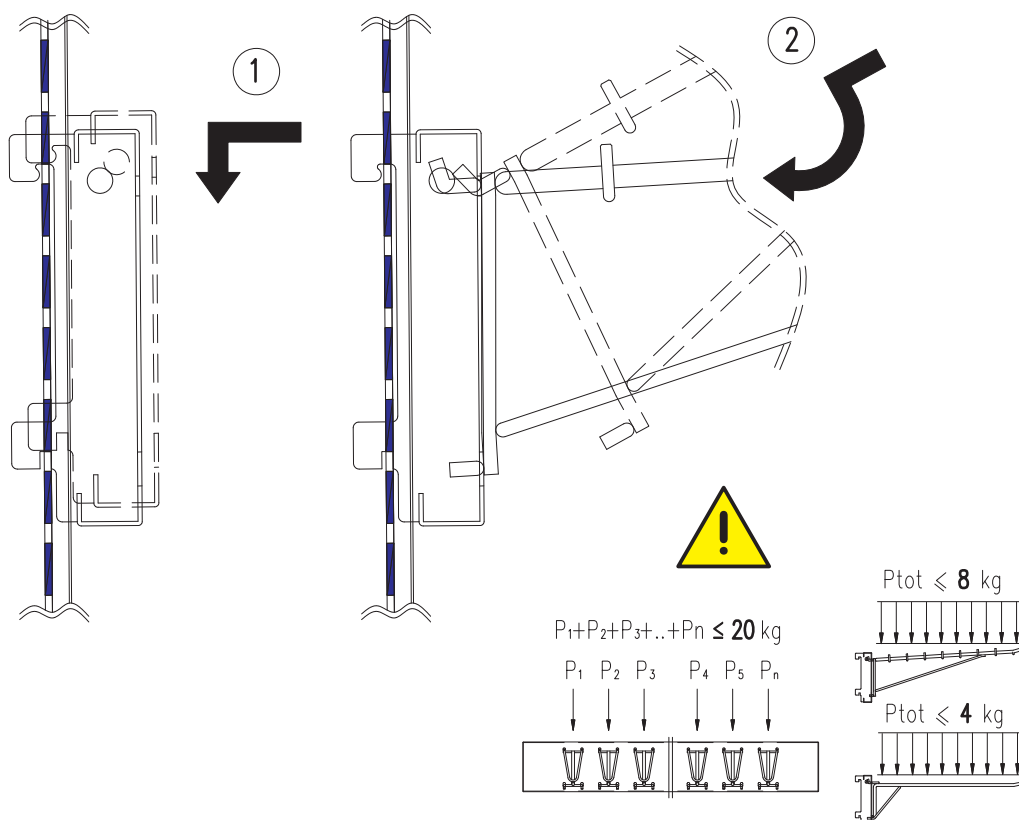
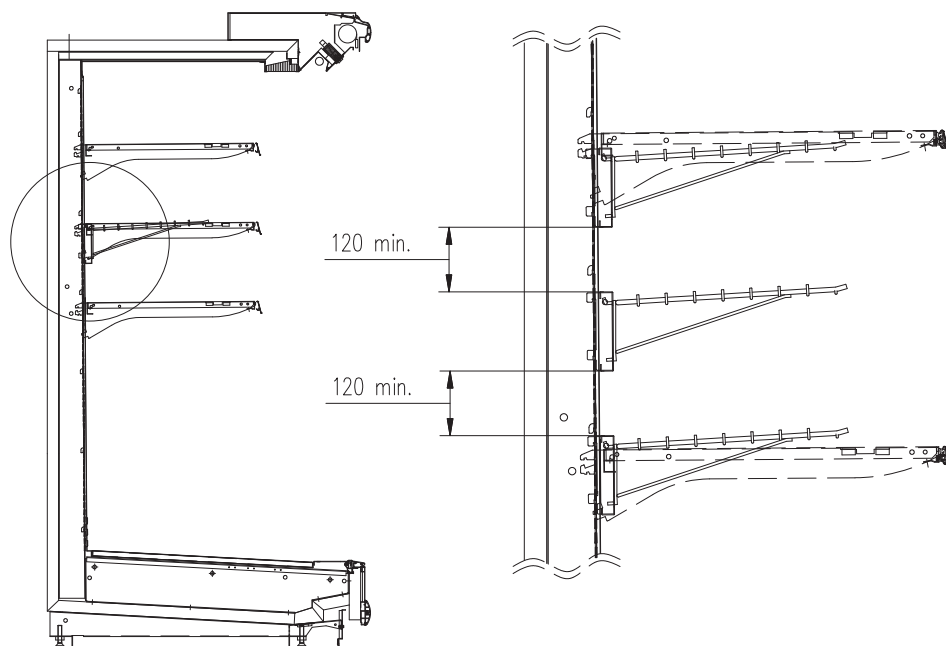




## Attachment 10 - CHANGE IN SHELVES



# Attachment 11 - HOOKS



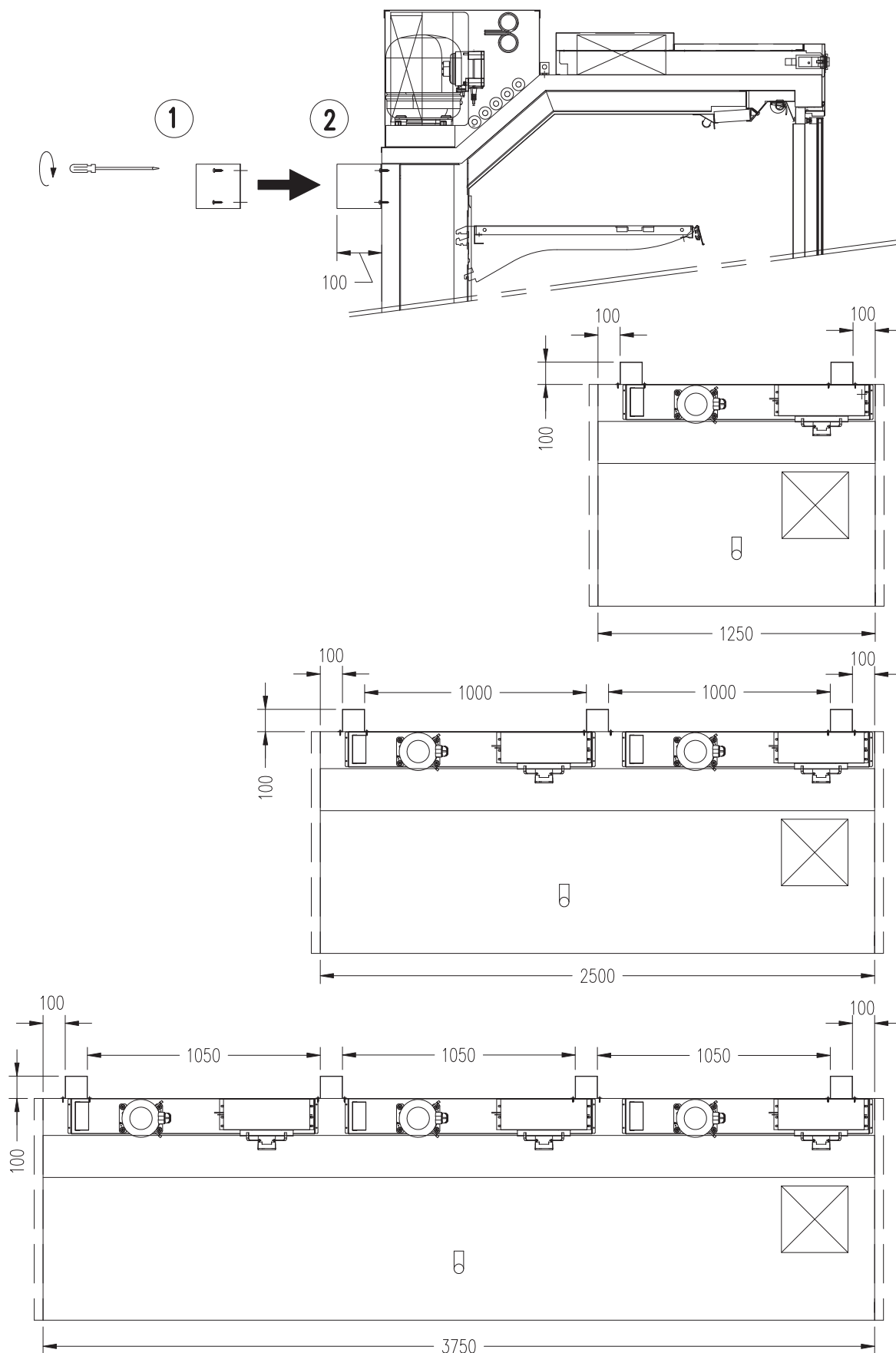
**PANDA**

USE AND MAINTENANCE MANUAL

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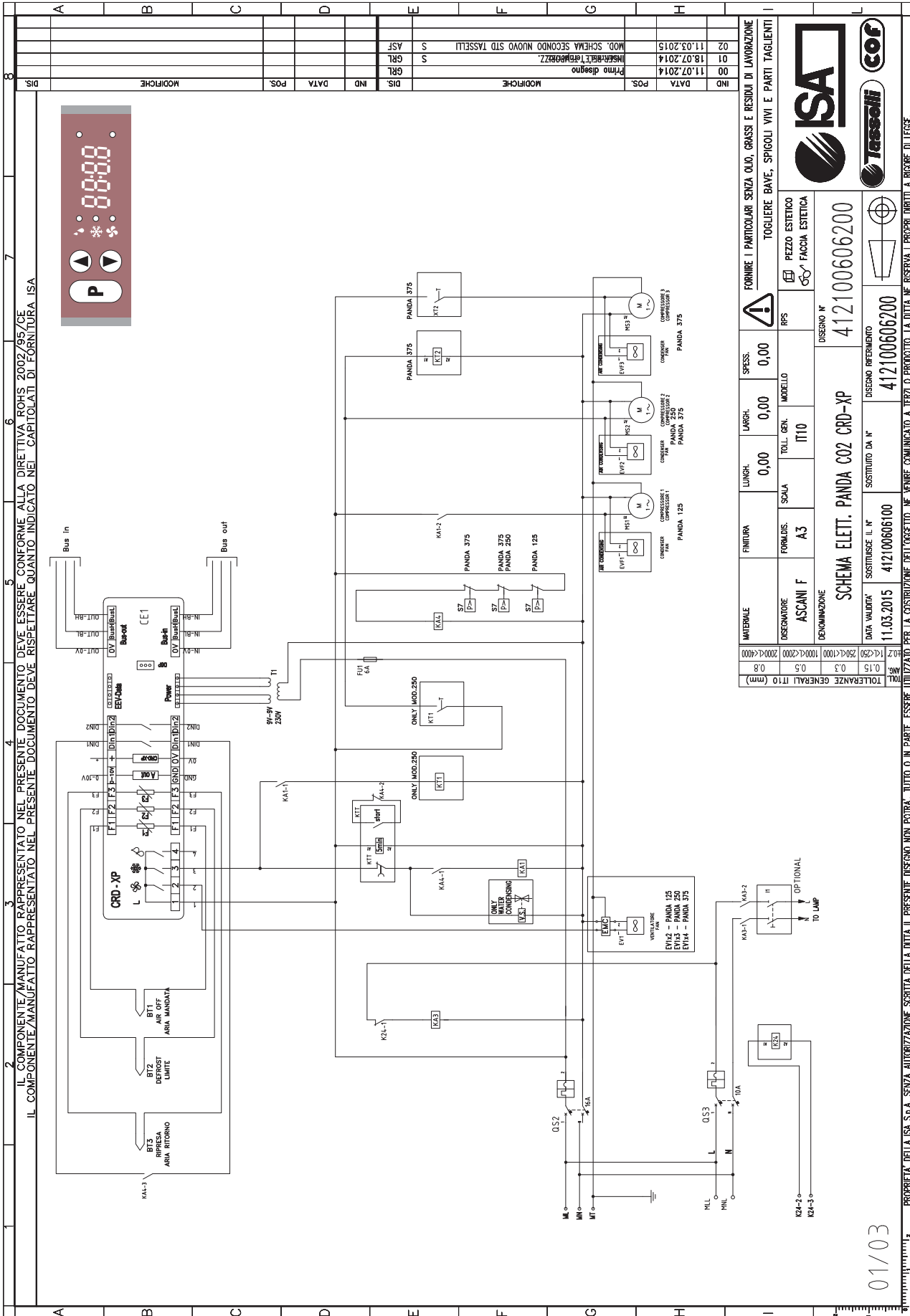
## Attachment 12 - SPACERS REAR



**PANDA**

USE AND MAINTENANCE MANUAL

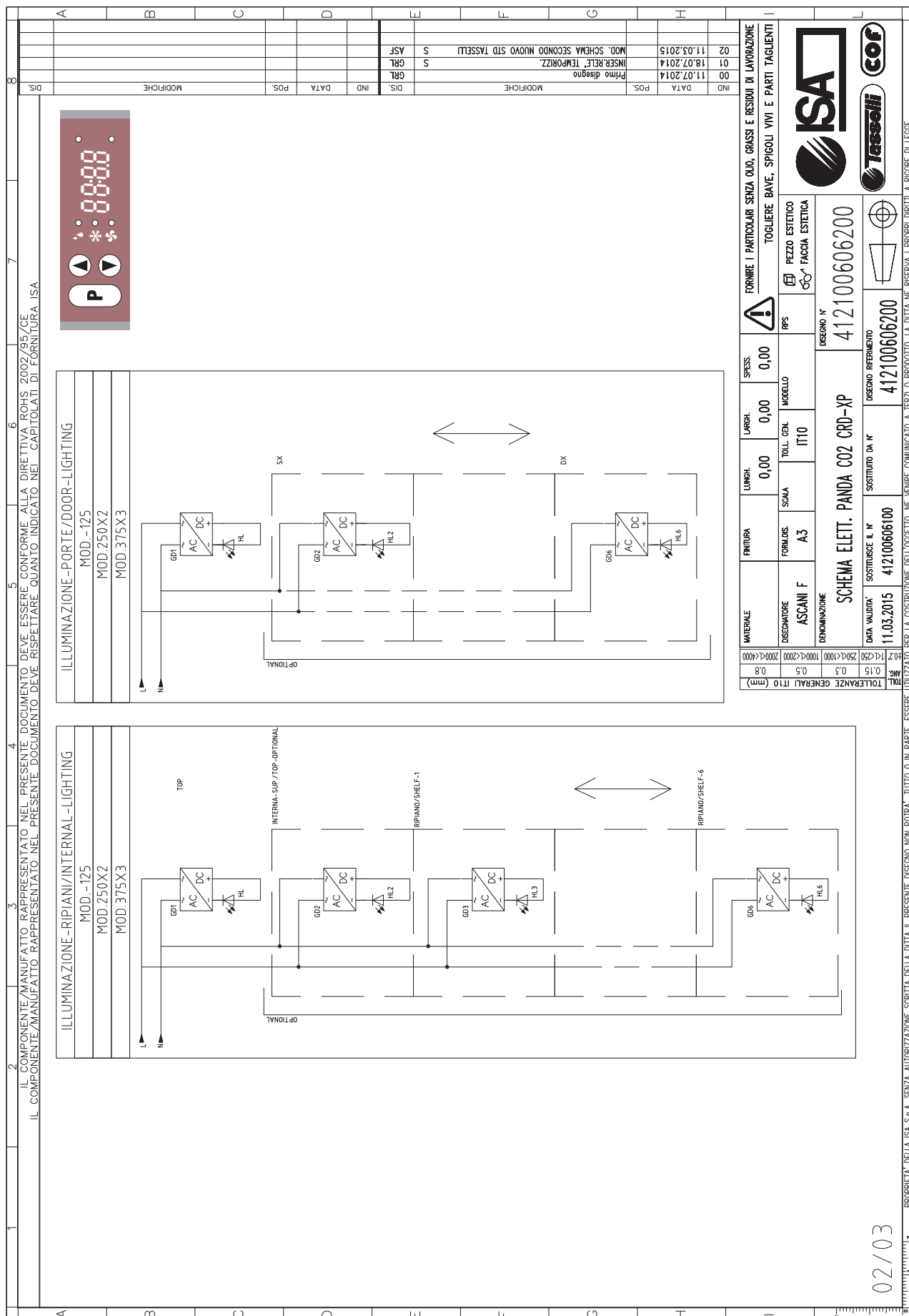
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PANDA

USE AND MAINTENANCE MANUAL

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03/03

PROPRIETA' DELLA ISA S.p.A. SENZA AUTORIZZAZIONE SCRITTA DELLA DITTA IL PRESENTE "DISEGNO NON POTRA' TUTTO O IN PARTE, ESSERE UTILIZZATO PER LA COSTRUZIONE DELL'OGGETTO, NE' VENIRE COMUNICATO A TERZI O PRODOTTO. LA DITTA NE RISERVA I PROPRI DIRITTI A RIGORE DI LEGGE.

BT1

AIR OFF PROBE

BT2

DEFROST PROBE

BT3

AIR IN PROBE

CE1

ELECTRONIC CONTROL BOARD

EMC

EMC FILTER

EVF

CONDENSER FAN

EV1

FAN

FU1

FUSE LINE ELECTRONIC CONTROL BOARD

GD

POWER SUPPLY LED

H1

LED LAMP

I1

LIGHT SWITCH (OPTIONAL)

KA1

RELAY COMPRESSOR 1

KA3

RELAY LIGHT

KA4

RELAY PRESSOSTAT

KA24

RELAY EXTERNAL LIGHT

KT1

RELAY COMPRESSOR 2 - MOD. 250 - MOD. 375

KT2

RELAY COMPRESSOR 3 - MOD. 375

KTT

RELAY FINDER mod. 81.01

MS1

COMPRESSOR 1 - ALL MODELS

MS2

COMPRESSOR 2 - MOD. 250 - MOD. 375

MS3

COMPRESSOR 3 - MOD. 375

OS2

POWER SWITCH

OS3

POWER SWITCH LIGHT

S7

PRESSURE SWITCH

T1

TRASFORMER

VS

SOLENOID VALVE 230V

BT1

AIR OFF PROBE

BT2

DEFROST PROBE

BT3

AIR IN PROBE

CE1

ELECTRONIC CONTROL BOARD

EMC

EMC FILTER

EVF

CONDENSER FAN

EV1

FAN

FU1

FUSE LINE ELECTRONIC CONTROL BOARD

GD

POWER SUPPLY LED

H1

LED LAMP

I1

LIGHT SWITCH (OPTIONAL)

KA1

RELAY COMPRESSOR 1

KA3

RELAY LIGHT

KA4

RELAY PRESSOSTAT

KA24

RELAY EXTERNAL LIGHT

KT1

RELAY COMPRESSOR 2 - MOD. 250 - MOD. 375

KT2

RELAY COMPRESSOR 3 - MOD. 375

KTT

RELAY FINDER mod. 81.01

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COMPRESSOR 1 - ALL MODELS

MS2

COMPRESSOR 2 - MOD. 250 - MOD. 375

MS3

COMPRESSOR 3 - MOD. 375

OS2

POWER SWITCH

OS3

POWER SWITCH LIGHT

S7

PRESSURE SWITCH

T1

TRASFORMER

VS

SOLENOID VALVE 230V

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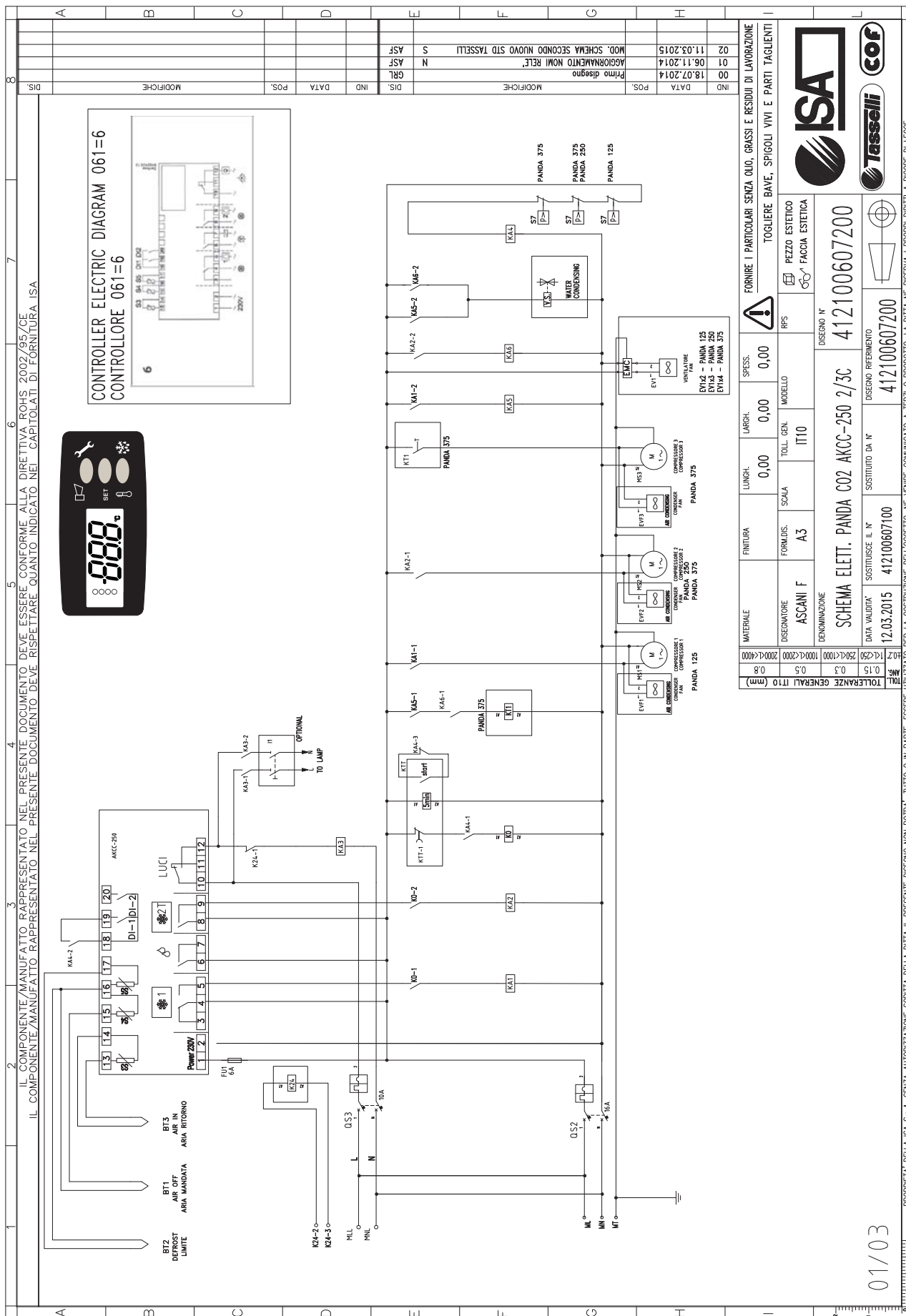
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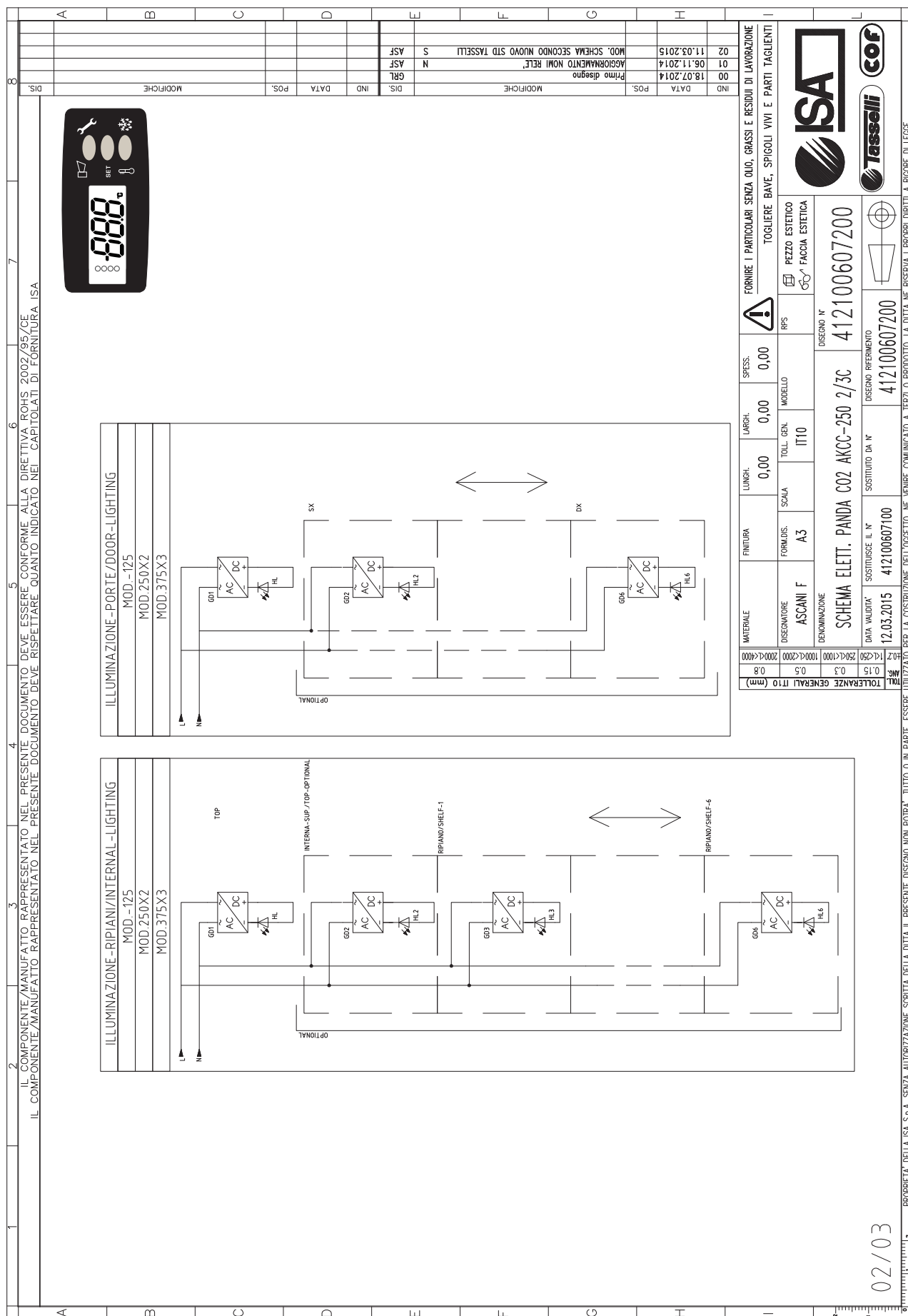
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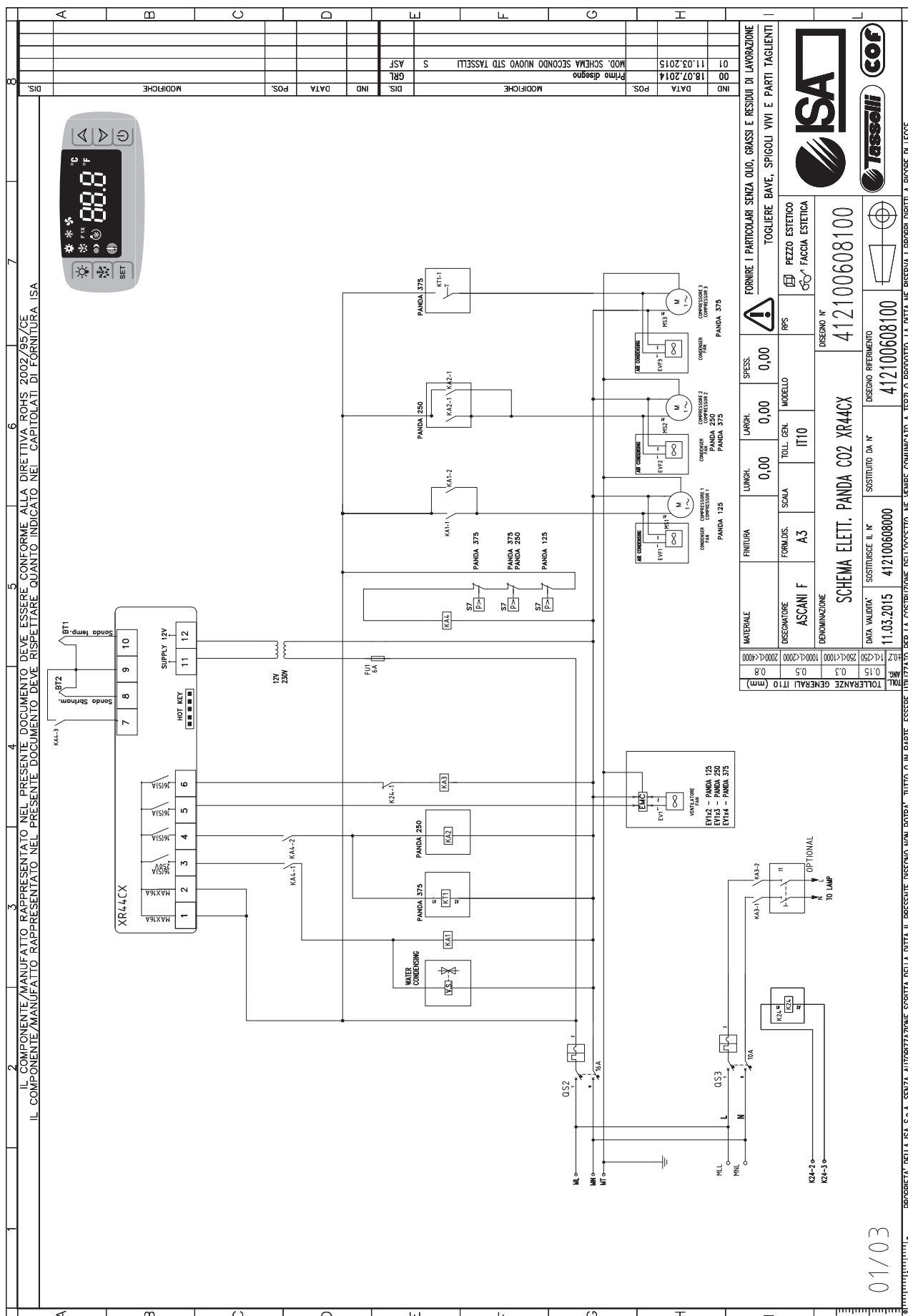


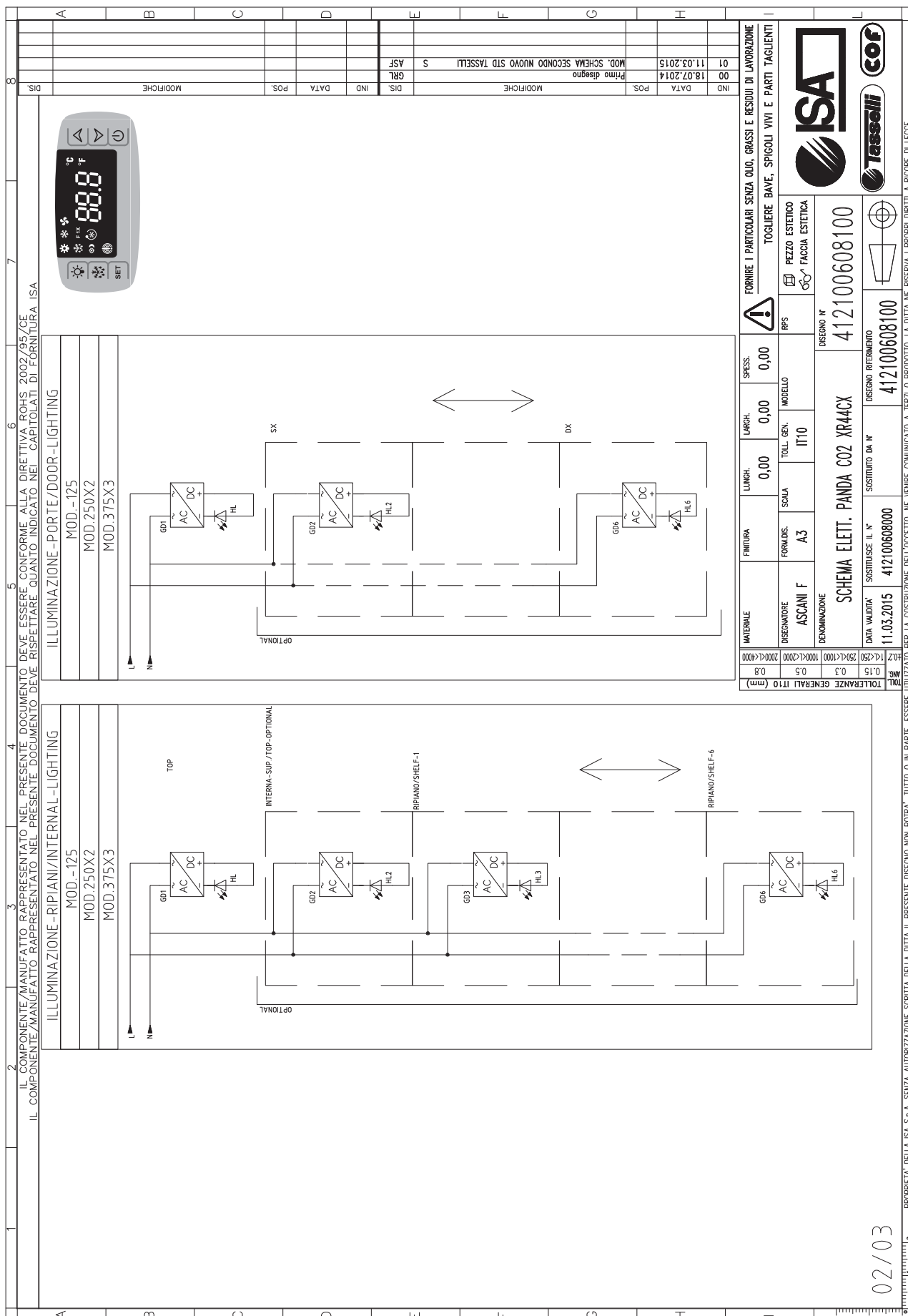
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0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	RPS			
DENOMINAZIONE				SOSTITUISCE IL N°				SOSTITUITO DA N°				DISEGNO RIFERIMENTO				DISEGNO N°			
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	412100607200			
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	412100607200			



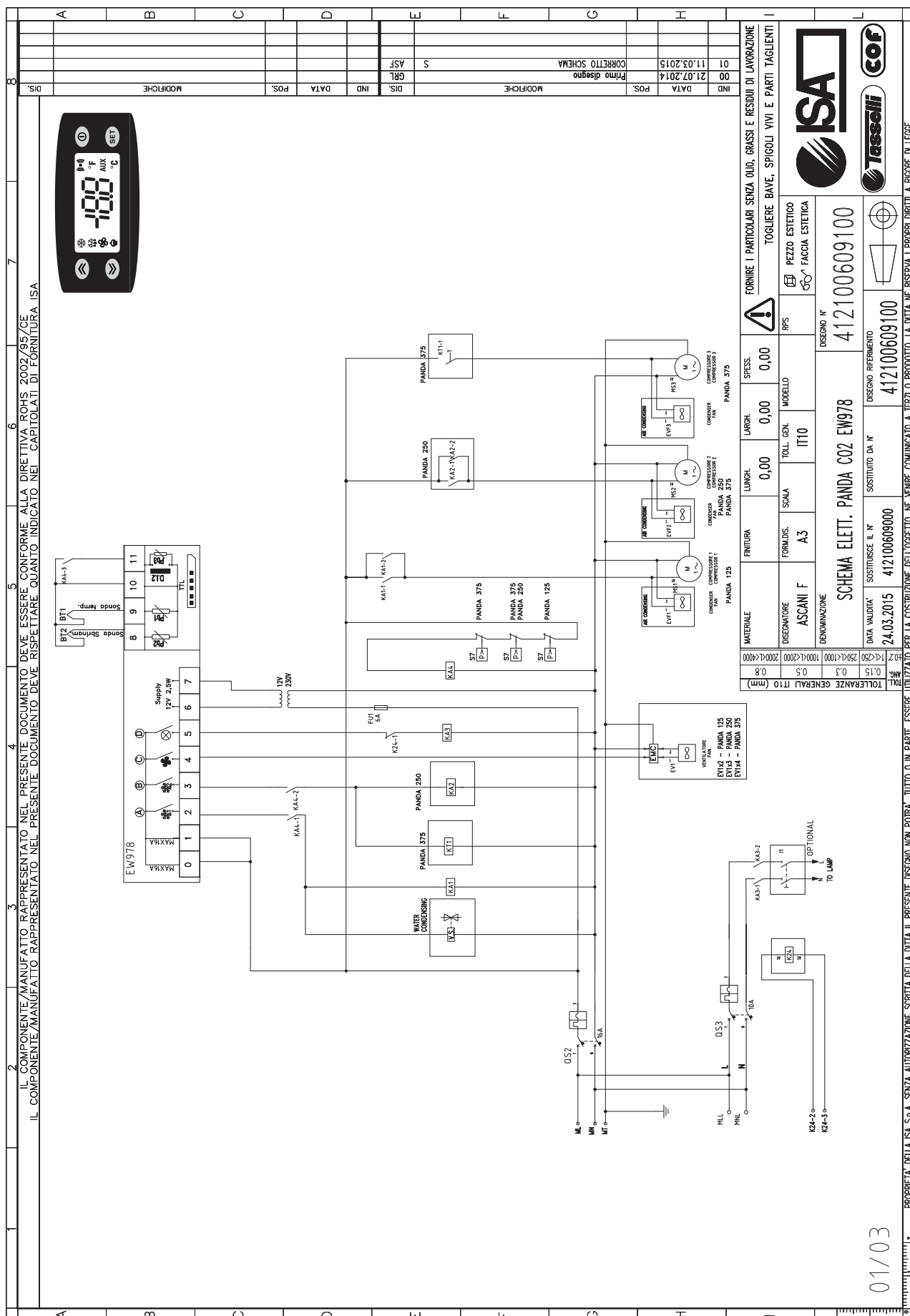


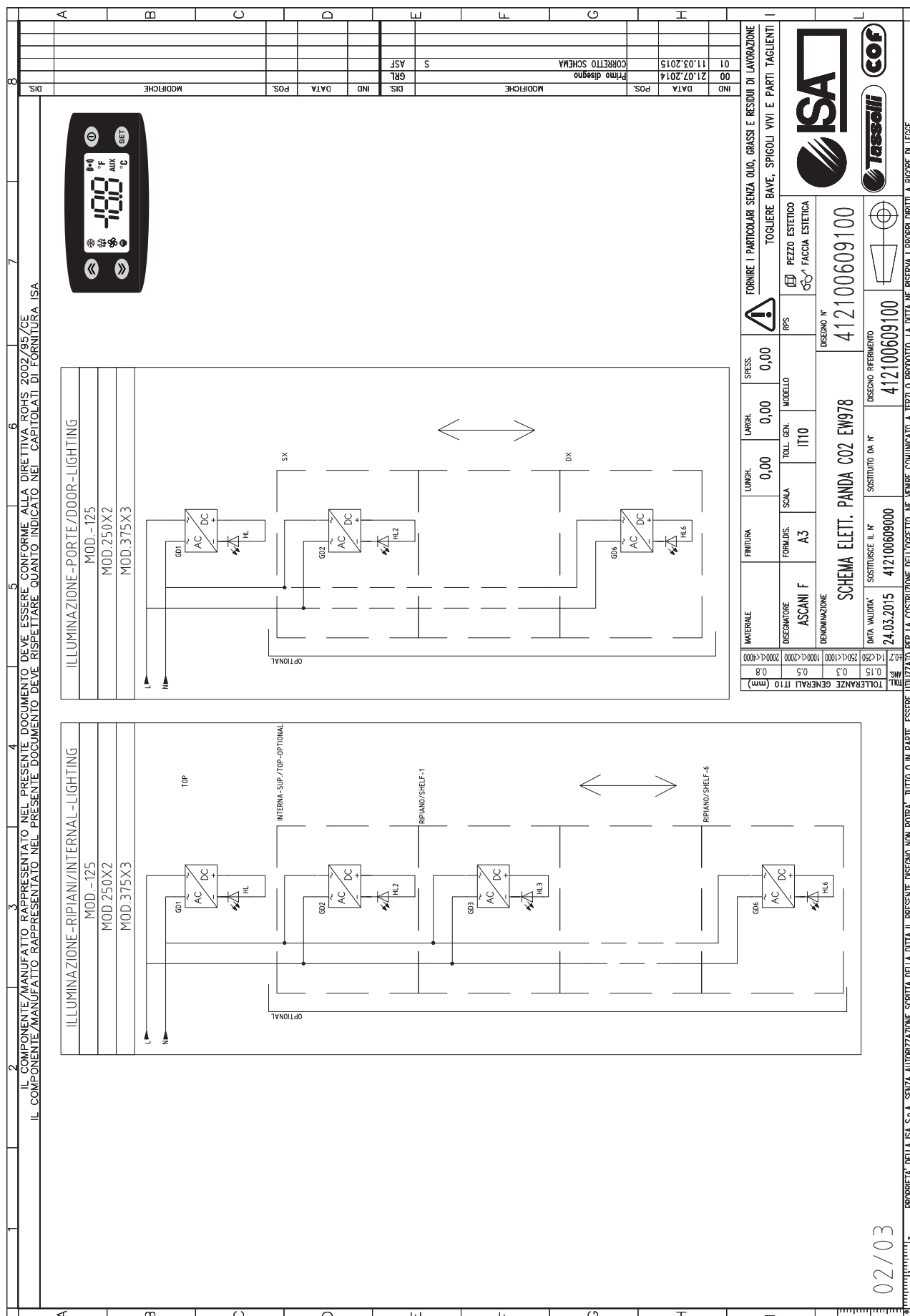






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		IL COMPONENTE/MANUFATTO RAPPRESENTATO NEL PRESENTE DOCUMENTO DEVE ESSERE CONFORME ALLA DIRETTIVA ROHS 2002/95/CE		IL COMPONENTE/MANUFATTO RAPPRESENTATO NEL PRESENTE DOCUMENTO DEVE RISPETTARE QUANTO INDICATO NEL CAPITOLATO DI FORNITURA ISA											
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B															
C															
D															
E															
F															
G															
H															
I															
L															

IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
01	11.03.2015			ASF					
00	21.07.2014			GR					
				Primo disegno					
				CORRETTO SCHEMA					

MATERIALE	FINITURA	LUNGH.	LARGH.	SPES.	FORMID.	SCALA	TOLL. GEN.	MODELLO	RPS	TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI
		0,00	0,00	0,00						
DESCRIZIONE	ASCANI F									
DATA VALIDITA'	24.03.2015									
SOSTITUISCE IL N°	412100609000									
SOSTITUITO DA N°										
DISEGNO RIFERIMENTO	412100609100									
DISEGNO N°	412100609100									
DENOMINAZIONE	SCHEMA Elett. PANDA C02 EW978									

TOL.	0,2	0,15	0,1	0,05	0,02	0,01	0,005	0,002	0,001	0,0005	0,0002	0,0001	0,00005	0,00002	0,00001
0,2															
0,15															
0,1															
0,05															
0,02															
0,01															
0,005															
0,002															
0,001															
0,0005															
0,0002															
0,0001															
0,00005															
0,00002															
0,00001															

BT1	AIR OFF PROBE
BT2	DEFROST PROBE
CE1	ELECTRONIC CONTROL BOARD
EMC	EMC FILTER
EVF	CONDENSER FAN
EV1	FAN
FU1	FUSE LINE ELECTRONIC CONTROL BOARD
GD	POWER SUPPLY LED
H1	LED LAMP
I1	LIGHT SWITCH (OPTIONAL)
KA1	RELAY COMPRESSOR 1
KA2	RELAY COMPRESSOR 2
KA3	RELAY LIGHT
KA4	RELAY PRESSURE SWITCH
KA24	RELAY EXTERNAL LIGHT
KT1	RELAY COMPRESSOR 2 - MOD. 375
MS1	COMPRESSOR 1 - ALL MODELS
MS2	COMPRESSOR 2 - MOD. 250 - MOD. 375
MS3	COMPRESSOR 3 - MOD. 375
QS2	POWER SWITCH
QS3	POWER SWITCH LIGHT
S7	PRESSURE SWITCH
T1	TRASFORMER
VS	SOLENOID VALVE 230V

IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
01	11.03.2015			ASF					
00	21.07.2014			GR					
				Primo disegno					
				CORRETTO SCHEMA					

MATERIALE	FINITURA	LUNGH.	LARGH.	SPES.	FORMID.	SCALA	TOLL. GEN.	MODELLO	RPS	TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI
		0,00	0,00	0,00						
DESCRIZIONE	ASCANI F									
DATA VALIDITA'	24.03.2015									
SOSTITUISCE IL N°	412100609000									
SOSTITUITO DA N°										
DISEGNO RIFERIMENTO	412100609100									
DISEGNO N°	412100609100									
DENOMINAZIONE	SCHEMA Elett. PANDA C02 EW978									

TOL.	0,2	0,15	0,1	0,05	0,02	0,01	0,005	0,002	0,001	0,0005	0,0002	0,0001	0,00005	0,00002	0,00001
0,2															
0,15															
0,1															
0,05															
0,02															
0,01															
0,005															
0,002															
0,001															
0,0005															
0,0002															
0,0001															

BT1	AIR OFF PROBE
BT2	DEFROST PROBE
CE1	ELECTRONIC CONTROL BOARD
EMC	EMC FILTER
EVF	CONDENSER FAN
EV1	FAN
FU1	FUSE LINE ELECTRONIC CONTROL BOARD
GD	POWER SUPPLY LED
H1	LED LAMP
I1	LIGHT SWITCH (OPTIONAL)
KA1	RELAY COMPRESSOR 1
KA2	RELAY COMPRESSOR 2
KA3	RELAY LIGHT
KA4	RELAY PRESSURE SWITCH
KA24	RELAY EXTERNAL LIGHT
KT1	RELAY COMPRESSOR 2 - MOD. 375
MS1	COMPRESSOR 1 - ALL MODELS
MS2	COMPRESSOR 2 - MOD. 250 - MOD. 375
MS3	COMPRESSOR 3 - MOD. 375
QS2	POWER SWITCH
QS3	POWER SWITCH LIGHT
S7	PRESSURE SWITCH
T1	TRASFORMER
VS	SOLENOID VALVE 230V

IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
01	11.03.2015			ASF					
00	21.07.2014			GR					
				Primo disegno					
				CORRETTO SCHEMA					

MATERIALE	FINITURA	LUNGH.	LARGH.	SPES.	FORMID.	SCALA	TOLL. GEN.	MODELLO	RPS	TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI
		0,00	0,00	0,00						
DESCRIZIONE	ASCANI F									
DATA VALIDITA'	24.03.2015									
SOSTITUISCE IL N°	412100609000									
SOSTITUITO DA N°										
DISEGNO RIFERIMENTO	412100609100									
DISEGNO N°	412100609100									
DENOMINAZIONE	SCHEMA Elett. PANDA C02 EW978									

TOL.	0,2	0,15	0,1	0,05	0,02	0,01	0,005	0,002	0,001	0,0005	0,0002	0,0001	0,00005	0,00002	0,00001
0,2															
0,15															
0,1															
0,05															
0,02															
0,01															
0,005															
0,002															
0,001															
0,0005															
0,0002															
0,0001															

BT1	AIR OFF PROBE
BT2	DEFROST PROBE
CE1	ELECTRONIC CONTROL BOARD
EMC	EMC FILTER
EVF	CONDENSER FAN
EV1	FAN
FU1	FUSE LINE ELECTRONIC CONTROL BOARD
GD	POWER SUPPLY LED
H1	LED LAMP
I1	LIGHT SWITCH (OPTIONAL)
KA1	RELAY COMPRESSOR 1
KA2	RELAY COMPRESSOR 2
KA3	RELAY LIGHT
KA4	RELAY PRESSURE SWITCH
KA24	RELAY EXTERNAL LIGHT
KT1	RELAY COMPRESSOR 2 - MOD. 375
MS1	COMPRESSOR 1 - ALL MODELS
MS2	COMPRESSOR 2 - MOD. 250 - MOD. 375
MS3	COMPRESSOR 3 - MOD. 375
QS2	POWER SWITCH
QS3	POWER SWITCH LIGHT
S7	PRESSURE SWITCH
T1	TRASFORMER
VS	SOLENOID VALVE 230V

IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
01	11.03.2015			ASF					
00	21.07.2014			GR					
				Primo disegno					
				CORRETTO SCHEMA					

MATERIALE	FINITURA	LUNGH.	LARGH.	SPES.	FORMID.	SCALA	TOLL. GEN.	MODELLO	RPS	TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI
		0,00	0,00	0,00						
DESCRIZIONE	ASCANI F									
DATA VALIDITA'	24.03.2015									
SOSTITUISCE IL N°	412100609000									
SOSTITUITO DA N°										
DISEGNO RIFERIMENTO	412100609100									
DISEGNO N°	412100609100									
DENOMINAZIONE	SCHEMA Elett. PANDA C02 EW978									

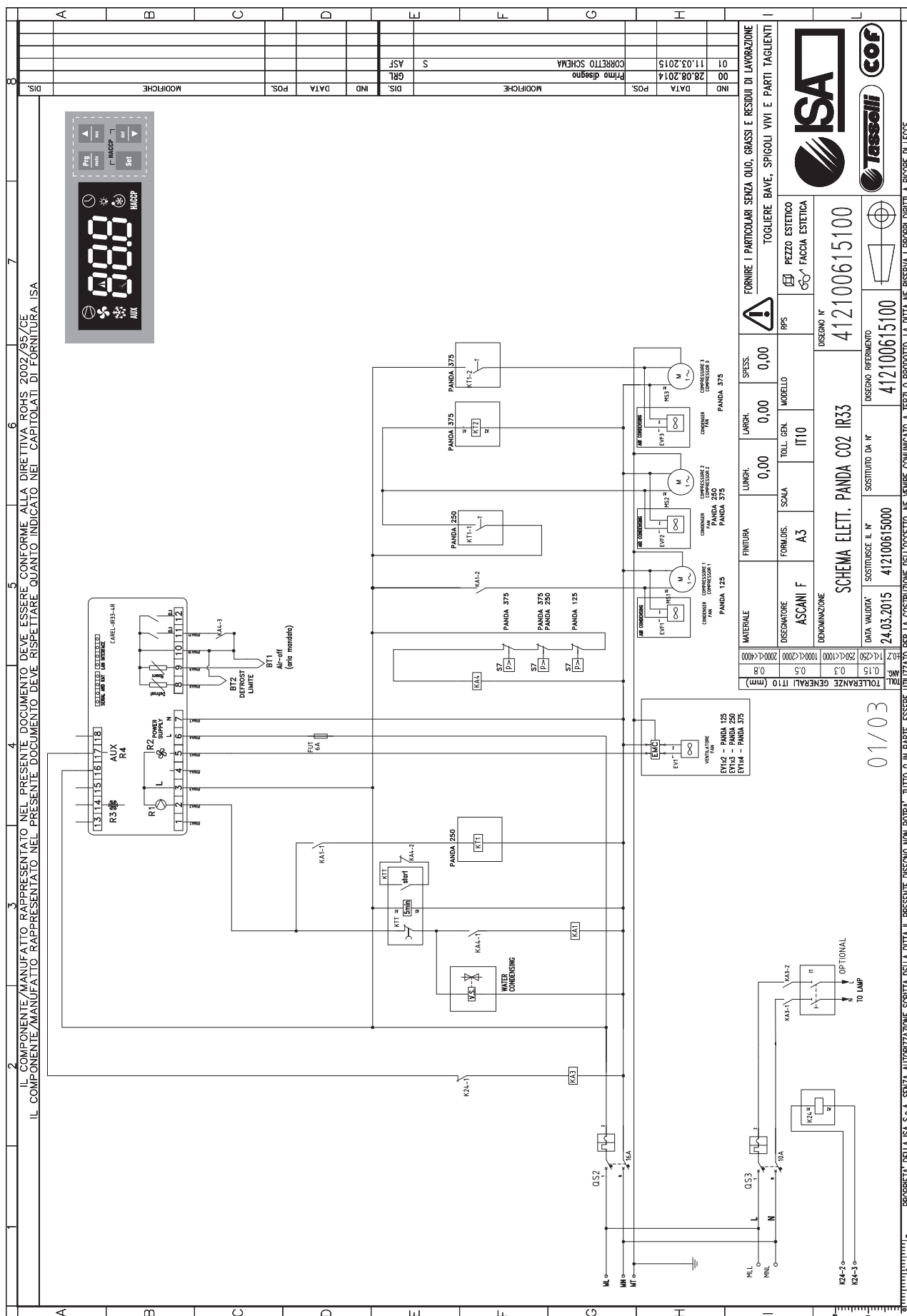
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0,2															
0,15															
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0,05															
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0,01															
0,005															
0,002															
0,001															
0,0005															
0,0002															
0,0001															

BT1	AIR OFF PROBE
BT2	DEFROST PROBE
CE1	ELECTRONIC CONTROL BOARD
EMC	EMC FILTER
EVF	CONDENSER FAN
EV1	FAN
FU1	FUSE LINE ELECTRONIC CONTROL BOARD
GD	POWER SUPPLY LED
H1	LED LAMP
I1	LIGHT SWITCH (OPTIONAL)
KA1	RELAY COMPRESSOR 1
KA2	RELAY COMPRESSOR 2
KA3	RELAY LIGHT
KA4	RELAY PRESSURE SWITCH
KA24	RELAY EXTERNAL LIGHT
KT1	RELAY COMPRESSOR 2 - MOD. 375
MS1	COMPRESSOR 1 - ALL MODELS
MS2	COMPRESSOR 2 - MOD. 250 - MOD. 375
MS3	COMPRESSOR 3 - MOD. 375
QS2	POWER SWITCH
QS3	POWER SWITCH LIGHT
S7	PRESSURE SWITCH
T1	TRASFORMER
VS	SOLENOID VALVE 230V

IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
01	11.03.2015			ASF					
00	21.07.2014			GR					
				Primo disegno					
				CORRETTO SCHEMA					

MATERIALE	FINITURA	LUNGH.	LARGH.	SPES.	FORMID.	SCALA	TOLL. GEN.	MODELLO	RPS	TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI
		0,00	0,00	0,00						
DESCRIZIONE	ASCANI F									
DATA VALIDITA'	24.03.2015									
SOSTITUISCE IL N°	412100609000									
SOSTITUITO DA N°										
DISEGNO RIFERIMENTO	412100609100									
DISEGNO N°	412100609100									
DENOMINAZIONE	SCHEMA Elett. PANDA C02 EW978									

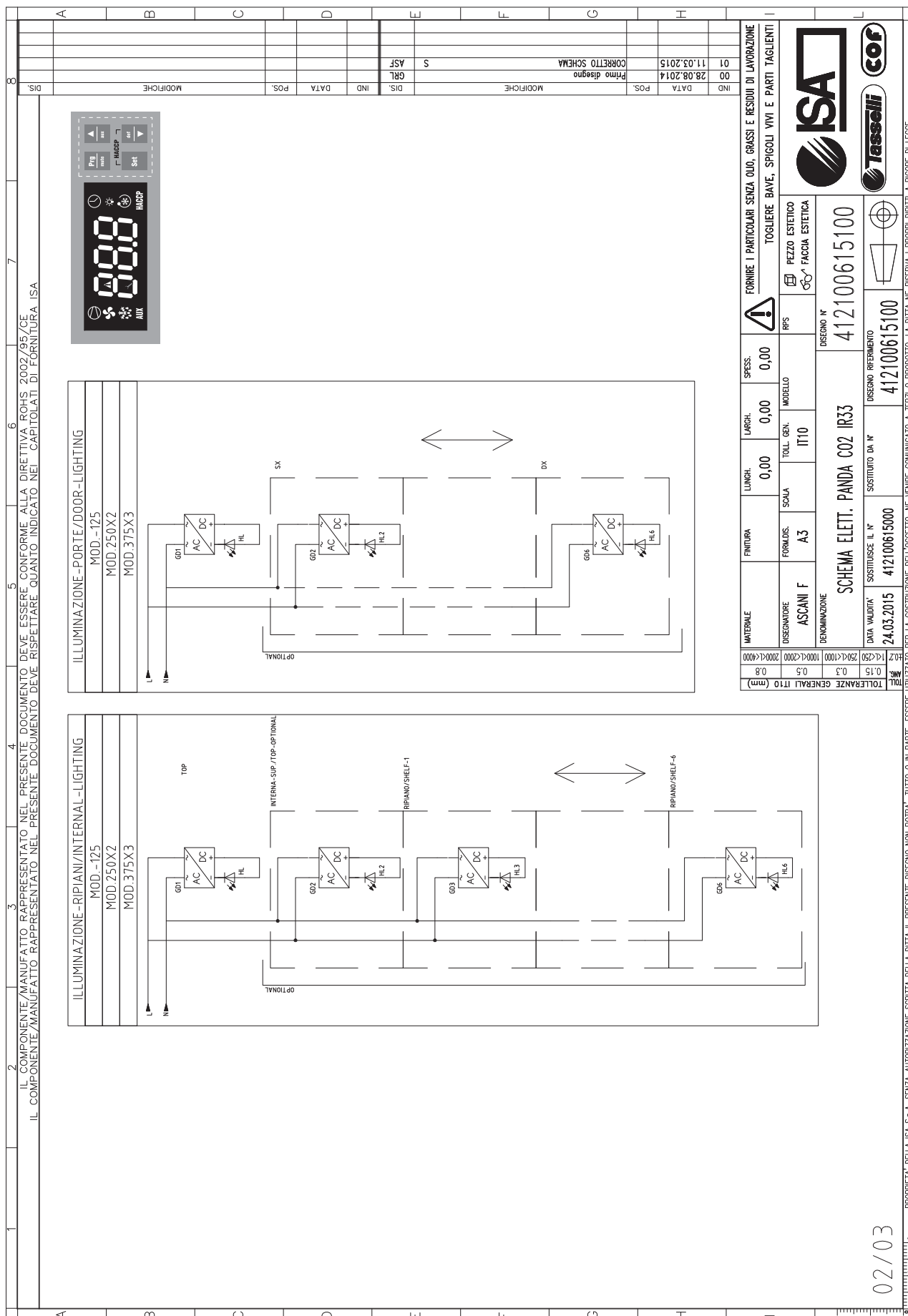
TOL.	0,2	0,15	0,1	0,05	0,02	0,01	0,005	0
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**PANDA**

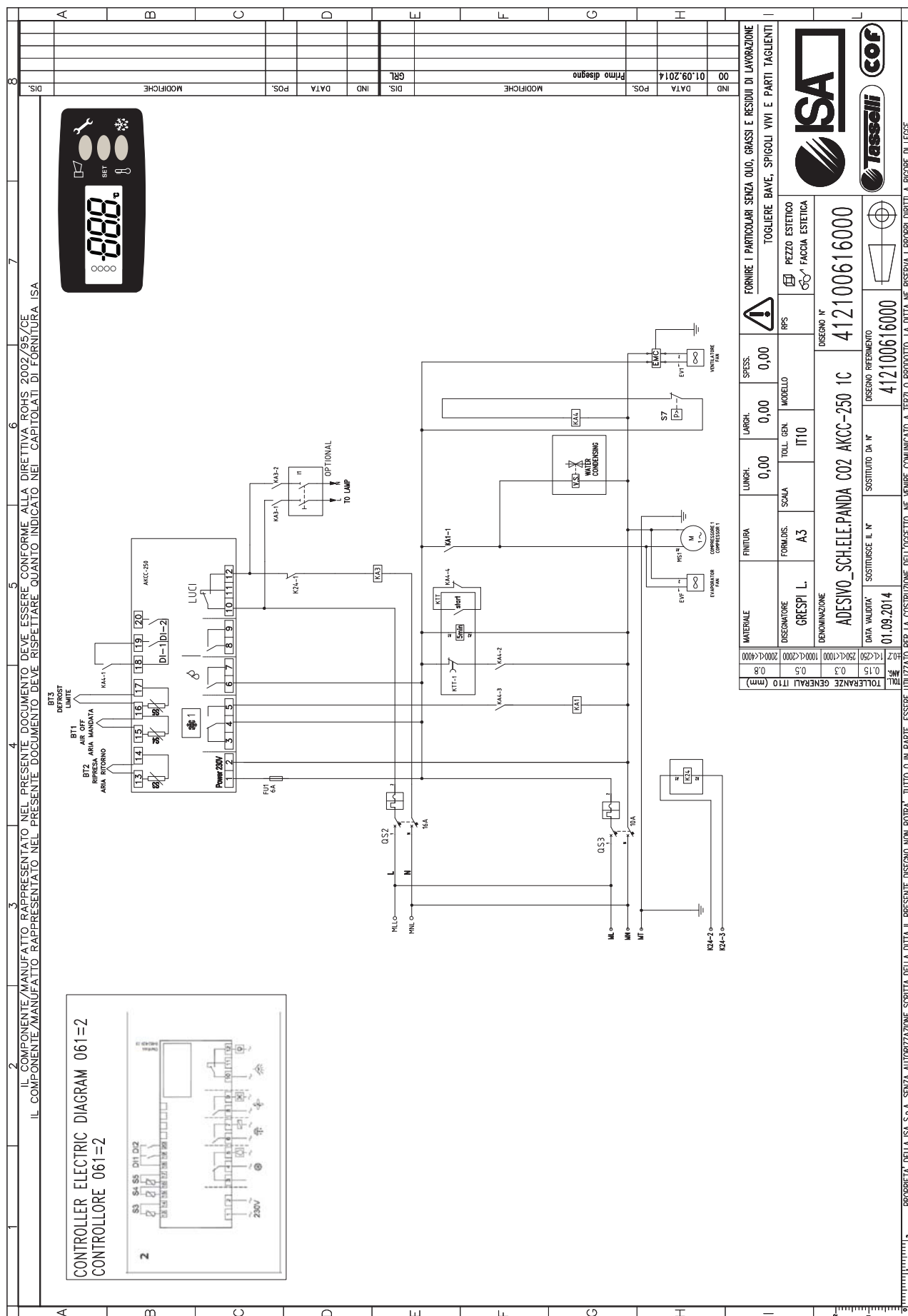
## USE AND MAINTENANCE MANUAL

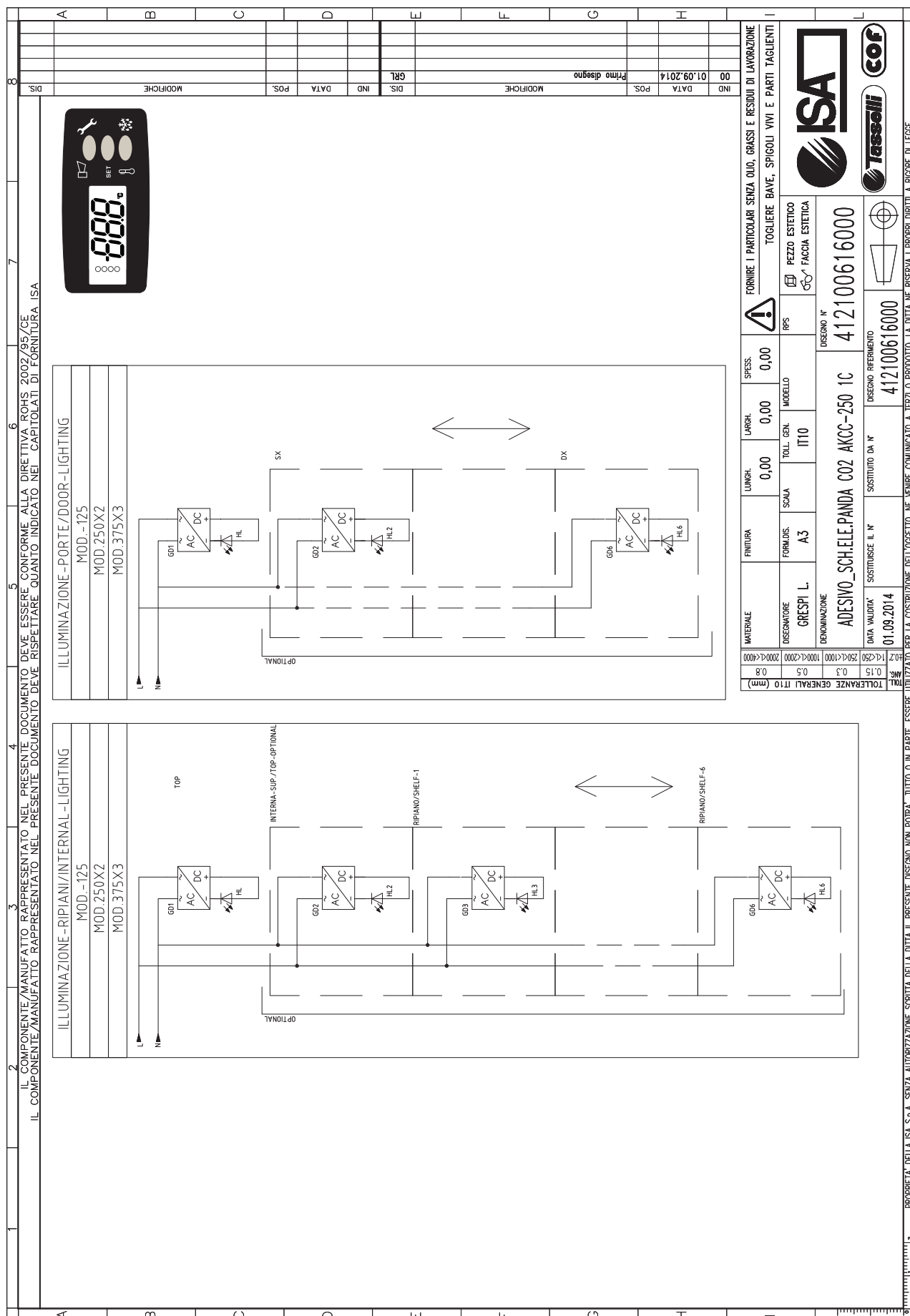
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BT1	AIR OFF PROBE
BT2	DEFROST PROBE
BT3	AIR IN PROBE
CE1	ELECTRONIC CONTROL BOARD
EMC	EMC FILTER
EVF	CONDENSER FAN
EV1	FAN
FU1	FUSE LINE ELECTRONIC CONTROL BOARD
GD	POWER SUPPLY LED
H1	LED LAMP
KA1	RELAY COMPRESSOR 1
KA3	RELAY LIGHT
KA4	RELAY PRESSURE SWITCH
KA24	RELAY EXTERNAL LIGHT
KT1	RELAY COMPRESSOR 2 - MOD. 250 - MOD. 375
KT2	RELAY COMPRESSOR 3 - MOD. 375
KTt	RELAY FINDER mod. 81.01
MS1	COMPRESSOR 1 - ALL MODELS
MS2	COMPRESSOR 2 - MOD. 250 - MOD. 375
MS3	COMPRESSOR 3 - MOD. 375
QS1	LIGHT SWITCH (OPTIONAL)
QS2	POWER SWITCH
QS3	POWER SWITCH LIGHT
S7	PRESSURE SWITCH
VS	SOLENOID VALVE 230V

[illegible]





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**Attention**

The electronic control board is installed already programmed. Any changes to the control board settings can be carried out exclusively by qualified technical personnel.

KEY	PRESSURE SINGLE KEY	PRESSURE COMBINED WITH OTHER KEYS		
<b>Prg</b> mute	<ul style="list-style-type: none"> <li>If pressed for more than 5 seconds, accesses the menu 'parameter setting of type "f" (frequent).</li> <li>In case of an alarm silence the audible alarm (buzzer) and deactivates the relay d 'alarm.</li> </ul>	<ul style="list-style-type: none"> <li>If pressed for more than 5 s, together with the key set, gives access to the menu 'parameter setting of type "c" (configuration) or downloading parameters.</li> <li>If pressed for more than 5 s, together with the key up / aux resets any alarms alarms with manual reset default serial.</li> </ul>	Start-up: if pressed for more 'than 5 S at start-up, activate the parameter setting procedure.	Automatic address assignment: if pressed for more 'than 1 S enters the procedure of automatic assignment of address.
<b>aux</b>	<ul style="list-style-type: none"> <li>If pressed for more than 1 s, enables / disables the 'auxiliary output.</li> </ul>	<ul style="list-style-type: none"> <li>If pressed for more than 5 seconds with the key DOWN / DEF, activates / deactivates the continuous cycle operation.</li> <li>If pressed for more than 5 seconds with the SET button, activates the procedure for printing the report.</li> <li>If pressed for more than 5 seconds with the PRG / MUTE, resets any alarms with manual reset.</li> </ul>		
<b>def</b>	<ul style="list-style-type: none"> <li>If pressed for more than 5 seconds, activates / deactivates a manual defrost.</li> </ul>	<ul style="list-style-type: none"> <li>If pressed for more than 5 seconds with the button UP / AUX, activates / deactivates the continuous cycle operation.</li> <li>If pressed for more than 1 s with the SET button, the display shows the submenu A 'with the parameters HACCP alarm (HA, HAn, HF, HFn).</li> </ul>		
<b>Set</b>	<ul style="list-style-type: none"> <li>If pressed for more than 1 s, displays and / or sets the set point.</li> </ul>	<ul style="list-style-type: none"> <li>If pressed for more than 5 seconds with the PRG / MUTE, gives access to the menu 'parameter setting of type "C" (configuration) or downloading documents.</li> <li>If pressed for more than 1 s with the key DOWN / DEF, A sub-menu appears on the display 'with the parameters HACCP alarm (HA, HAn, HF, HFn).</li> <li>If pressed for more than 5 seconds with the button UP / AUX, activates the procedure for printing the report.</li> </ul>		


**Attention:**

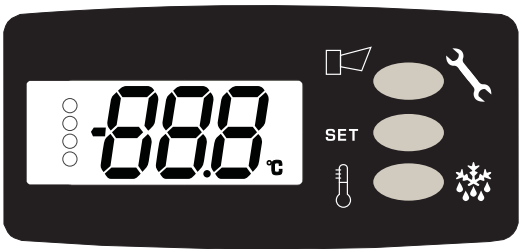
The pressure of each text is signaled by a short beep can not be disabled.




**Attention**

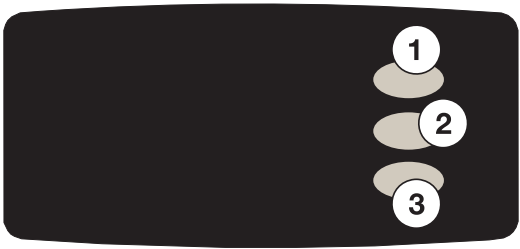
The electronic control board is installed already programmed. Any changes to the control board settings can be carried out exclusively by qualified technical personnel.

ICONA	FUNCTION	ON	OFF	FLASHING	START-UP
	COMPRESSOR	Compressor ON	Compressor OFF	Compressor required	
	FAN	Fan ON	Fan OFF	Fan required	
	DEFROSTING	Defrosting in progress	Defrosting not required	Defrosting required	
<b>AUX</b>	AUX	Auxiliary output AUX ON	Auxiliary output AUX OFF	Function anti-sweat heater ON	
	ALARM	Delayed external alarm (before the end of time "A 7")	No alarm present	Alarms in nominal function (eg. High / low temperature) or alarm from external digital input, immediate or delayed	
	CLOCK	If you have set at least one defrost temporizzato	There is not any timed defrost	Alarm clock	ON if this Real-Time Clock
	LIGHT	Auxiliary output Light ON	Auxiliary output Light OFF	Function anti-sweat heater ON	
	TECHNICAL ASSISTANCE	/	No malfunction	Malfunction	
<b>HACCP</b>	HACCP	Function not enabled	Function enabled (HAc/O HF)	Allarme HACCP memorizzato	
	CONTINUOUS CYCLE	Function activated	Function not activated	Function required	
	DISPLAY				



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KEYS	
1	Down for 5 seconds to enter the programming. In navigation allows you to change the values and scroll through the parameters.
2	Down for 5 seconds to display the set point. In the navigation tool to select the parameter and enter the parameter.
3	Down for 5 seconds to perform a manual defrost. In navigation allows you to change the values and scroll through the parameters.






To enter programming mode and make changes / checks the parameters through the parameters until you reach the parameter r12, r12 = 0 then set to proceed.  
Once completed, any changes / inspections set the parameter r12 = 1


**Attention**





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At start-up, the instrument conducts a **LAMP TEST** for a few seconds. The display and LEDS flash to verify their integrity and to ensure they are working correctly.

**KEYS**

	<b>UP</b> Scrolls menu options Increases the values Activates manual defrosting
 	<b>DOWN</b> Scrolls menu options Decreases the values Press to turn on the internal lighting
	<b>STAND-BY (ESC)</b> Goes back up one level with respect to current menu Confirms parameter value Activates the Stand-by function
	<b>SET (ENTER)</b> Accesses the Set-point Accesses the programming menu Confirm the commandsIt displays any alarms (if present)

**LED**

	<b>COMPRESSOR or RELAY 1</b> ON for compressor on Flashing for delay, protection or blocked activation.
	<b>ADDITIONAL</b> ON for defrosting in progress Flashing for manual activation
	<b>ALARM</b> ON for active alarm Flashing for silenced alarm
	<b>FANS</b> ON for operating fans







#### Attention


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### SETPOINT SETTING

	Press the <b>SET (ENTER)</b> button and release immediately. The "Set" label will appear. To view the Set point value, press the <b>SET (ENTER)</b> button again. The Set-point value will appear on the display.
	To change the Set point value, press the <b>UP</b> and <b>DOWN</b> buttons within 15 seconds.
	To confirm the new Set-point value set, press the <b>SET (ENTER)</b> key again.
	By not operating on the keyboard for more than 15 seconds (time-out) or pressing the <b>STAND-BY (ESC)</b> key once, the last value displayed is confirmed and you go back to the previous display.

### CHECK UP

	Alarm conditions are always signalled by the buzzer (if present) and by the corresponding alarm icon LED. The alarm signal deriving from a faulty probe (probe 1) appears directly on the instrument display with the indication E1. The alarm signal deriving from a faulty evaporator probe (probe 2) appears directly on the instrument display with the indication E2.
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### MANUAL ACTIVATION OF THE DEFROSTING CYCLE


	To manually activate the defrosting cycle, press and hold the <b>UP</b> key for 5 seconds. If defrosting conditions are not present (for instance the temperature of the evaporator probe is higher than the temperature at the end of the defrosting process), the display will flash three (3) times to indicate that the operation will not be performed.
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#### Attention

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At start-up, the instrument conducts a **LAMP TEST** for a few seconds. The display and LEDS flash to verify their integrity and to ensure they are working correctly.

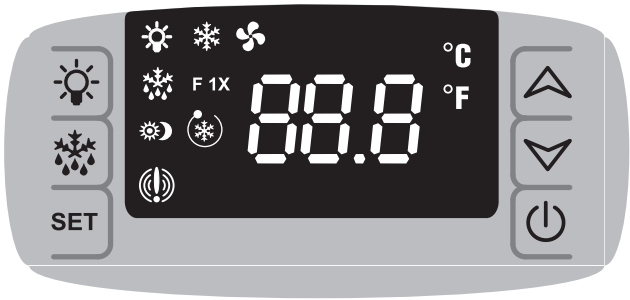
ALARM	DESCRIPTION	OUTPUTS	AUTHORISED PERSONNEL
			
P1 EO	Broken thermostat probe. Compressor output according to “CO <sub>n</sub> ” and “CO <sub>F</sub> ” parameters	<ul style="list-style-type: none"><li>• The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly.</li><li>• We recommend checking the probe connections before replacing it.</li></ul>	
P2 E1	Broken evaporator probe. Set time for defrosting.	<ul style="list-style-type: none"><li>• The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly.</li><li>• We recommend checking the probe connections before replacing it.</li></ul>	
HA HI	High temperature alarm.	<ul style="list-style-type: none"><li>• The alarm stops automatically on reaching the temperature set.</li><li>• Check programming.</li></ul>	
LA LO	Low temperature alarm.	<ul style="list-style-type: none"><li>• The alarm stops automatically on reaching the temperature set.</li><li>• Check programming.</li></ul>	
EA IA CB	External alarm.	<ul style="list-style-type: none"><li>• The external alarm stops after the digital infeed is deactivated, it is restored automatically.</li><li>• The alarm is linked to the intervention of the pressure switch and/or the compressor circuit breaker, when present.</li></ul>	
ETc RTF	Real time clock is broken.	<ul style="list-style-type: none"><li>• Reset the clock.</li><li>• If the alarm does not stop, replace the clock.</li></ul>	
EE	Machine parameter error.	<ul style="list-style-type: none"><li>• The instrument is damaged. It must be replaced.</li></ul>	
EF	Operating parameters error.	<ul style="list-style-type: none"><li>• The instrument is damaged. It must be replaced.</li></ul>	



#### Attention








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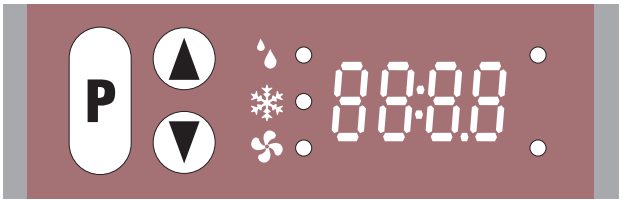
KEY	KEY SINGLE PRESS	KEYS COMBINED PRESSION
	Not applicable.	  <b>To block and release the keyboard.</b> <b>Lock keyboard</b> Hold both keys down for a few seconds until flashing "POF" appears. The keyboard is blocked. Only the set-point of the maximum and minimum temperature can be displayed. "POF" appears if a key is pressed for more than 3 seconds. <b>Unlock keyboard</b> Hold both keys down for a few seconds until flashing "PON" appears.
	To start a <b>manual defrosting</b> cycle, press for at least 2 seconds.	<b>SET</b>  To enter programming mode.
<b>SET</b>	To display or modify the set-point. Press and release the key to display the temperature. To go back to viewing the temperature set, wait 5 seconds or press the key again In programming mode, selects a parameter or confirms a value.	<b>SET</b>  To exit programming mode.
	<b>UP</b> In programming mode, scrolls the codes of the parameters or increases its value. Activates the Continuous Cycle function when present. <b>Maximum temperature display</b> Press and release the key (the "Hi" message will be displayed followed by the maximum temperature reached). Press the key or wait 5 seconds to go back to displaying normal temperature.	
	<b>DOWN</b> In programming mode, scrolls the codes of the parameters or decreases its value. Activates the High and Low Humidity function when present. <b>Minimum temperature display</b> Press and release the key (the "Lo" message will be displayed followed by the minimum temperature reached). Press the key or wait 5 seconds to go back to displaying normal temperature.	
	Switches the instrument on or off. Pressed for at least 2 seconds, it displays "OFF" In this configuration the loads and all adjustments are disabled; to take the instrument back to <b>ON</b> press again for at least 2 seconds.	



**Attention**

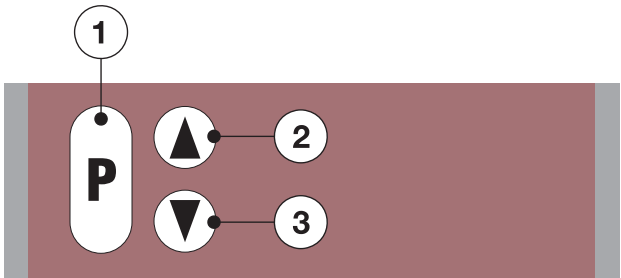
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ICONA	FUNZIONE	ON	LAMPEGGIANTE
	COMPRESSOR	Compressor ON	Delay with close start-ups
	FAN	Fan ON	Fan OFF
	DEFROSTING	Defrosting in progress	Dripping in progress
	ALARM	Alarm temperature	/
	/	Energy saving in progress	/
°C / °F	/	Unit of measurement	Programming
	CONTINUOUS CYCLE	Function ON	/
	DISPLAY	/	/

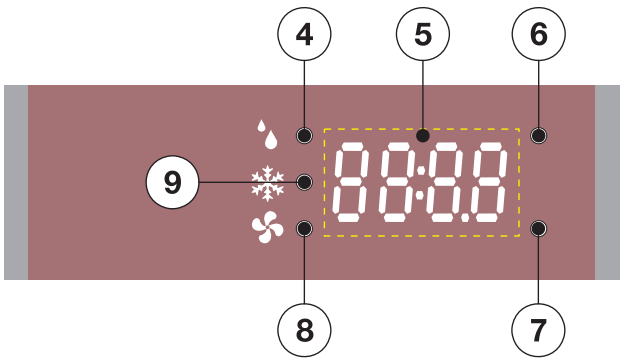


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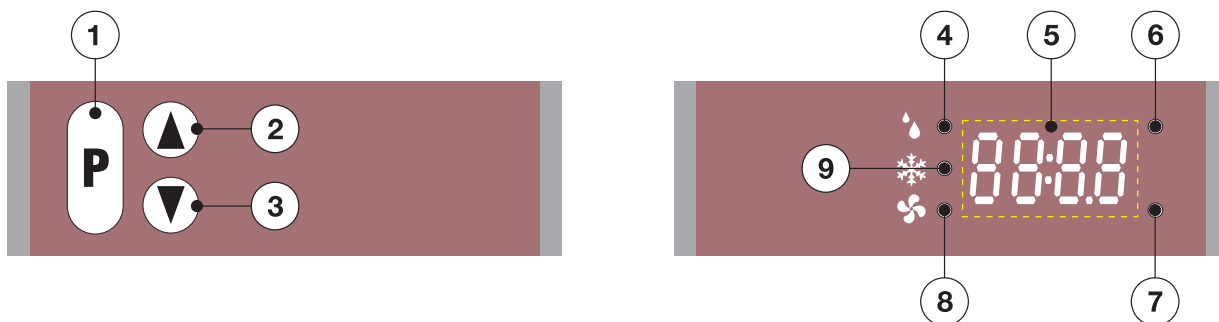


1	KEY PARAMETER
2	FORWARD KEY
3	BACK BUTTON




4	DEFROSTING LED
5	DISPLAY
6	LED MODE 'SET ENABLED
7	LED SETTING FOR EXPERTS
8	STATUS LED FAN
9	STATUS LED COOL





BASIC SETTINGS (parameters P00-P09)				
Procedure	Description			Result
Display number parameter.	Press and hold the 1 key.			The display shows the number of display.
Display number parameter prior.	Press and hold the 1 key	Press the 2 key.		
Display number the previous parameter.	Press and hold the 1 key	Press the 3 key.		
Display of parameter value.	Press and hold the 1 key	Use the buttons 2 or 3 required parameters.	Release the 1 key.	The display shows the value of the parameters.
Enabling the setting mode.	Hold for 5 seconds the buttons 1, 2 and 3.			The LED flashes 6. Note: actual values can not be set even when the LED flashes.
Change parameter value.	Use the buttons 2 or 3 the desired parameters.			The change is saved directly.
Lock mode setting.	Hold for 5 seconds the buttons 1, 2 and 3.			The parameters can no longer be set. Displays the most recently selected parameters.
	Automatic if you do not press any button for 2 minutes.			The parameters can no longer be set. Appears IL parameter P00 or P61 temperature set in "Standard view".



ALARM	SIGNIFICATION	PERSONNEL AUTHORIZED
		
<b>F1</b>	Sensor fault F1.	In the case of adjusting the supply air: Operation di'emergenza. In the case of weighted adjustment: Determining the actual value adjustment only with F2.
	Sensor fault F1 and F2.	In the case of weighted adjustment: Operation di'emergenza.
<b>F2</b>	Sensor fault F2.	In the case of adjustment of the return: Operation di'emergenza. In the case of weighted adjustment: Determining the actual value adjustment only with F1.
<b>F3</b>	Sensor fault F3.	The electric defrost, defrost hot gas or cold gas will not start.
<b>FCH</b>	Probe plausibility check.	During the cooling mode, the supply air is warmer return or limiting probe is warmer than the air flow sensor. Note only in day mode; disappears into night mode.
<b>EE</b>	Data error in nonvolatile memory	In the event of a power failure at high energy, is possibileche the rated values are corrupted. On the disturbed parameter overwrites the value of defaults. Check out all the storage space and possibly make new entries! Insert the controller without power.
<b>PEEU</b>	EEV Pressure, pressure transmitter module EEV but faulty transmitter reflected ok	Pressure transmitter for superheat control module EEV defective. If P89 is set to a valid connection number or an address bus CAN, the suction pressure is reported by the CAN bus.
<b>toEr</b>	Error, no information on the suction pressure.	Pressure transmitter for adjustment of superheat defective and no signal from the pressure transmitter reflection; EEV opens the degree of emergency opening. (P102)
<b>F ts</b>	Temperature probe error suction gas.	EEV opens with openness di'emergenza. (P102)
<b>COLL</b>	Address in bus collision CAN.	The set address is already assigned. Set another address for the device. The message will disappear about 20 seconds after the fault is cleared.
<b>bus</b>	Error CAN bus. No CAN communication bus.	Check the CAN bus connection or set to 0, the address.
<b>rtc</b>	Clock time is not valid. (Real-Time-Clock)	Create a CAN bus connection to the gateway or enter the time and date (P16, P67, P68) and set the address to 0 (P64)
<b>door</b>	Cell door open too long.	Close the door of the cell, which may increase P76 "door alarm delay.
Viewing flashing	Overtemperature or temperature below the actual value adjustment.	Control probe too hot or too cold. Check le'impostazione the overtemperature threshold P47 or P48 under tempe- rature.
<b>EEEU</b>	Failure of communication with the module EEV.	EEV module failure or connection to CD-XP interrupted. When the EEV form is not working, EEV opens with the degree of openness of an emergency. (P102) When there is no EEV form, select the thermostatic expansion valve. (P86 = th)





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