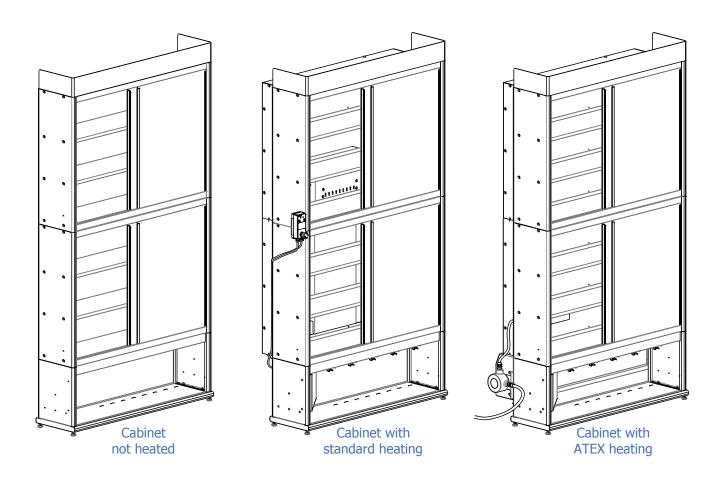


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EN

# **Air System Cabinet**



# Use and maintenance handbook



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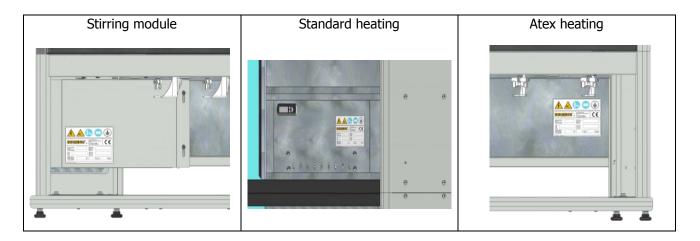
# **1 GENERAL INFORMATION**

#### 1.1 Manufacturer identification

TECMEC S.r.l. Località Faustina, 63 20080 Albairate (MI) – Italy Tel: +39 02 9469871 Fax: +39 02 94698741 e-mail: tecmec@tecmec.com web: www.tecmec.com

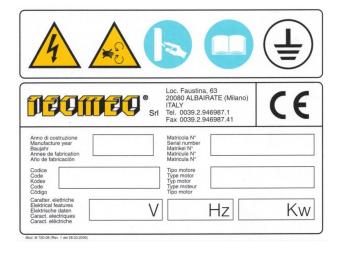
#### 1.2 Product identification

The identification labels are located on the stirring and heating systems of cabinet, in particular they are on the motor protection of stirring module, on the standard heater protection and on right side of ATEX heater.



The identification label shows the following data:

- Simbology on prescrictions of security and health
- Manufacturer information
- CE Mark
- Year of construction
- Serial number
- Code
- Type motor
- Electrical features





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#### 1.3 CE Declaration (For heating and stirring systems)





#### DICHIARAZIONE DI CONFORMITÀ "CE" - "CE" CONFORMITY DECLARATION CERTIFICAT DE CONFORMITÉ "CE" - DECLARACIÓN DE CONFORMIDAD "CE" "CE" ÜBEREINSTIMMUNGERKLÄRUNG

Si dichiara che i macchinari di nostra fomitura si intendono progettati e costruiti in conformità ai requisiti essenziali di sicurezza e salute dettati dalla Direttiva Europea sulla Sicurezza delle Macchine. Rammentiamo che la presente dichiarazione perde validità in caso di modifiche sui macchinari eseguite senza il nostro consenso.

It is hereby certified that the equipments we supply are designed and manufactured according to the safety and welfare essential requirements prescribed by the European Direction on Machines Safety. We remind that the present declaration loses validity in case of modifications on machinery carried out without our consent.

Nous déclarons que la machine de notre fourniture spécifiée ci-dessous a été conçue et construite en conformité aux normes essentielles de santé et de sécurité requises par la Directive Européenne pour la Sécurité des Machines. Cette déclaration perdra sa validité au cas où la machines aurait subit des modifications sans notre autorisation.

Se declara que las máquinarias de nuestro suministro han sido proyectadas y construidas en conformidad con los requisitos esenciales de seguridad y salud dictadas por la Norma europea sobre la Seguridad de Máquinas. Recordamos que la presente declaración pierde validez en caso de modificaciones sobre las maquinarias ejecutadas sin nuestro consentimiento.

Es ist hier erklärt, daß die von uns hergestelleten Maschinen in Übereinstimmung mit den wesentlichen Sicherheits- und Gesundheitserfordernissen nach der Europäischen Richtlinie über die Maschinensicherheit geplant und aufgebaut sind. Wir erinnern Sie daran, daß die vorliegende Erklärung ihre Gültigkeit im Fall von Änderungen auf die Maschinen verliert, die ohne unsere Zustimmung gemacht werden.

Identificazione del fabbricante, Manufacturer identification, Identification du fabricant, Identificación del fabricante, Identifikation der Herstellers:

#### TECMEC S.r.L. - Località Faustina, 63 - 20080 Albairate (MI) Italy

Tel. +3902946987.1 - Fax +3902946987.41 - E-mail tecmec@tecmec.com - http://www.tecmec.com

Identificazione della macchina, Machine identification, Identification de la machine, Identificación de la máquina, Identifikation der Maschine:

: 012734

20xx

SNxxxxx

Codice, Code, Código, Maschinenummer:

Descrizione, Description, Descripción, Schilderung:

: KIT RISCALDAMENTO STANDARD

Matricola, Serial number, Numéro de série, Número de serie, Seriennumme:

Anno di costruzione, Year of manufacture, Année de construction, Baujahr, Fecha:

Direttive di riferimento, Reference directives, Directives de référence, Directivas de referencia, Angewandte Normen: 2006/42/CE (macchine - machines - machines - máquinas - Maschinen)

2014/35/UE (bassa tensione - low tension - basse tension - baja tension - Niederspannung)

2014/30/UE (compatibilità elettromagnetica - electromagnetic compatibility - compatibilité électromagnetique - compatibilidad electromagnética - elektromagnetische Verträglichkeit)

Norme applicate, Applied regulations, Normes appliquées, Normas aplicadas, Angewandte Anweisungen: UNI EN ISO 12100:2010 (sicurezza del macchinario - safety of machinery - sécurité des machines - seguridad de las máquinas -Sicherheit von Maschinen)

CEI EN 60204-1 - (equipaggiamenti elettrici - electrical equipments - équipements électriques - equipos eléctricos - Elektrische Geräte)

Persona autorizzata a costruire il fascicolo tecnico, Person authorized to compile the technical file, Personne autorisée à constituer le dossier technique, Persona autorizada para elaborar el espediente técnico, Autorisierte Person zur Erstellung der technischen Dokumentation TECMEC S.r.L.

Luogo e data, Place and date, Lieu et date, Lugar y fecha, Ort und Datum

Albairate, 09/02/2018

Il legale rappresentante The legal rapresentative Laura Desinano





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#### **1.4 Reference standards**

2006/42/CE	Machine Directive
2014/35/UE	Low tension Directive
2014/30/UE	Electromagnetic compatibility
2015/34/UE	ATEX Directive
UNI EN ISO 12100:2010	Machinery Safety – general principles of design
CEI EN 60204-1	Electrical equipment of machines

#### 1.5 Warranty

The warranty includes free replacement or repair of components with manufacturing defects.

For the warranty condictions see the document on the CD-rom supplied with the product.

The warranty excludes damages caused by transport, not observance of the manual instructions, operations of unauthorized personnel or for reasons not caused by the manufacturer.



# **2 DESCRIPTION OF THE MACHINE**

The Cabinet is an equipment designed to professional application.

The Cabinet is designed to storage of colorant pastes contained in suitable containers.

Are available kits for standard or ATEX heating, that allow the conservation of colorant pastes in range of temperature between  $16^{\circ}-20^{\circ}C$ 

On cabinet is available a stirring module, that allow to place up to five 3L cans (or 0,5-1L with adapter).

#### 2.1 Heating and stirring kits

The cabinet is provided in not heated versione and without stirring system.

Are available separately: the heating systems, the stirring and the adapter for 0,5-1L cans.

Heating system		
Code	Description	
012734	012734 STANDARD HEATING KIT	
012735	ATEX HEATING KIT	

Stirring module		
Codice	Description	
012736	STIRRING MODULE	
012514	ADAPTOR	



# **3** SAFETY

#### 3.1 Safety rules

The cabinet must be included in the assessment of company risk and requires the applicable laws on safety at work to be complied.

To ensure the highest possible degree of safety in the correct use of the machine, all measures deemed necessary in the design, construction, testing and installation have been adopted.

# For a proper use, the cabinet have to be used by trained personnel, in order to avoid accidents or injury to person, or and things.

The components used are in accordance with the applicable standards.

The cabinet must be located in a special tank / container, suitable to contain any accidental products leaks.

To avoid that the equipment have instability issues, it's necessary to verify both the perfect leveling of the feets locaded in the bottom part of the structure and the fixing to the wall, as per the assembly instructions.

#### **3.2 Work environment requirements**

The floor has to be regular and flat to minimize the vibrations.

The floor must be able to bear the weight of 500 Kg.

The environment must have the correct illumination as request from current legislation in work environment.

To use the machine properly, the room temperature should be between 5° and 40°C, colorants used permitting.

#### **3.3 Electric power system**

Given the installation place, for the heated and/or stirring version, the requirements to be implemented before placing the tecmec equipment are as follow:

- The power supply have to be provided by a control panel on the wall, placed near the cabinet.
- The maximum power are: 0,18Kw for stirring module, 0,5Kw for standard heating and 0,75Kw for ATEX heating (add the maximum power in relation to the configuration of cabinet).
- The section of each conductor mustn't be less than 1.5 mm<sup>2</sup>.
- The power line must be equipped of a efficient ground connection and complies with the requirements set by current standards.
- The supply panel have to be composed with a differential switch ( $I\Delta n=0,03A$ ) with voltage and phases compatible with power supply of machine (single phase).

To ensure a complete safe operation for the operator and the equipment, it's very important, during the assembly of the electrical panel, to use the above mentioned type of switch, due to the fact that the switch will have a protective function against possible direct or accidentals voltage hazard down to ground.

It's important to make the necessary assessment of the site, and follow the applicable regulations for the characteristics of the electrical system, to ensure that they are not a cause of accidents or injuries.



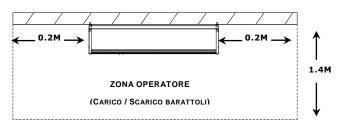
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#### 3.4 Working zones

The cabinet doesn't have particular dangers, but there are zones where accessibility to the operator is prohibited, these are the maintenance and dangerous zones.

#### • Operator zone

The zone near to the cabinet where the operator can stand.



• Maintenance and dangerous zones

They are those zones where the operator mustn't intervene, in these zones only qualified personnel must access and for ATEX version only qualified personnel in potentially explosive environments.

MAINTENANCE AND DANGEROUS ZONES			
Description of zone	Allowed operation	Dangers	
Stirring motor zone	Repairs by qualified personnel	Moving parts and equipment in voltage.	
Standard heating panel	Repairs by qualified personnel	Equipment in voltage.	
Explosion-proof housing of ATEX heater	Repairs by qualified personnel to operate in ATEX areas	Equipment in voltage and danger of explosion.	
ATEX thermostat	Repairs by qualified personnel to operate in ATEX areas	Equipment in voltage and danger of explosion.	

#### 3.5 Residual risks

In spite of the precautions adopted in the design of the equipment, to ensure safe use there may be reasonably foreseeable situation for which it is only been possible to reduce the risk without completely eliminating it.

Risk	Precaution
During the stirring cycle, the fans are moving and could cause injuries to the hands. (on shelf is applied the danger symbol "Moving parts")	Use protective gloves and don't put the hands during the stirring under the shelf.



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Accidental liquid spill inside the cabinet.	Disconnect immediately the equipment from the main electrical line, remove the liquid by using proper products.
---	---

#### The cabinet is designed for the storage and/or stirring of colorant pastes of various types.

Before to their use, follow the instructions, warnings and safety instruction on each individual can/package, and on the data sheet issued by the producer.

#### 3.6 Symbols shown on the equipment

230 VOLT	Danger electrical hazard. Is forbidden to carry out work on the equipment under voltage. Is forbidden to operate on the electrical system without authorizations.
$\wedge$	Danger parts in movement below stirring shelf.
<b>O</b> o	It is forbidden load and unload cans from stirring shelf when the machine is running.
	It is forbidden put the hands below stirring shelf when the machine is running.
	It is forbidden wear clothing (as necktie or scarf) that can wrap around in the moving parts.
	It is mandatory to read carefully the instruction manual, before any operation on the equipment.
	It is mandatory to provide the grounding of the electrical system.

#### 3.7 Intended use of the equipment

The unique features of this equipment are to store, to stir and to heat (If one or both systems are installed) the colorant pastes contained in suitable containers/cans.

#### 3.8 Non intended use

Any other use of this equipment that are not described in this manual are considered improper and therefore prohibited.

In particular it is forbidden:

- It is forbidden heat or stir products that are not colorant pastes.
- Any kind of manumission or unauthorized intervention on the electrical system.
- The access to the motor zone and to thermostat control panel by unauthorized personnel, and in any case when the equipment is connected to the main electrical line.
- It is forbidden remove motor protection except for maintenance by unauthorized personnel.

# In any case it is absolutely mandatory to remove the plug from the main electrical / power line before executing any kind of maintenance.



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# **4 TRANSPORT AND HANDLING**

The cabinet is shippend in special cardboard boxes and transported on pallets for allow the transport with suitable lifting systems in relation to weight (see chapter 9).



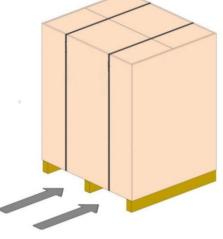




Lifting systems

The lifting operation must be carried out with the maximum care and attention.

Do not remain under the machine or in the immediate vicinity of the machine while it is being raised.



Punti di sollevamento

Each box is labeled with: description, code, production order, weight and number of people for lift it.



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In case of needs to move an operating equipment for short distances (same workplace) please follow the below points:

- Always operate by following the instruction provided by existing accident prevention regulation.
- Remove all colorants from shelfs and place them in a appropriated place.
- Unscrew the nuts that secure the cabinet to the wall.
- Disassemble the cabinet upper module so as to split the cabinet in two parts.
- Lay down the two parts on pallets so as to avoid the fall during the transport.
- Move the pallets with appropriated means (pallet jack or forklift) to the new destination place.
- Reassembly the two cabinet parts and fix it on wall using the dowels.

For obvious safety reason is **forbidden** to move the assembled equipment.

For movement over long distance, the equipment MUST be packed and secured on pallets, as when it was delivered.



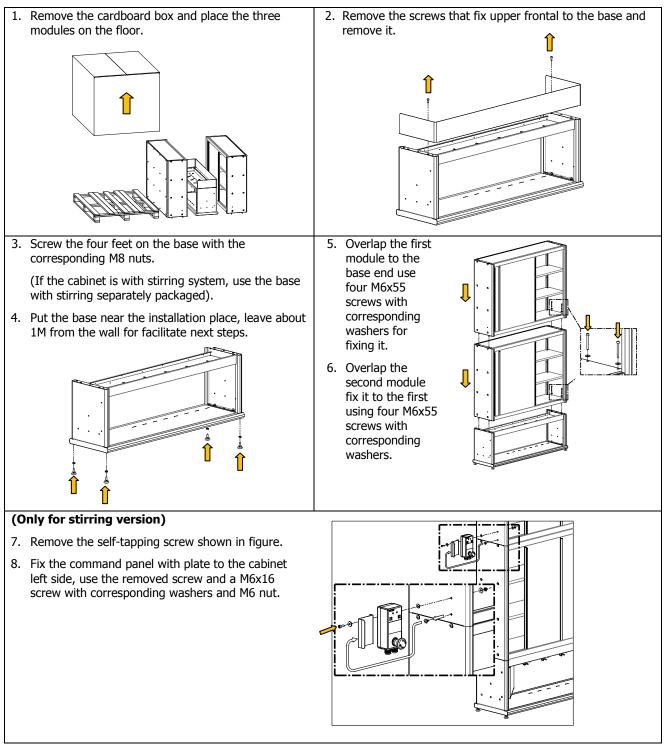
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## **5 INSTALLAZIONE**

#### WARNING

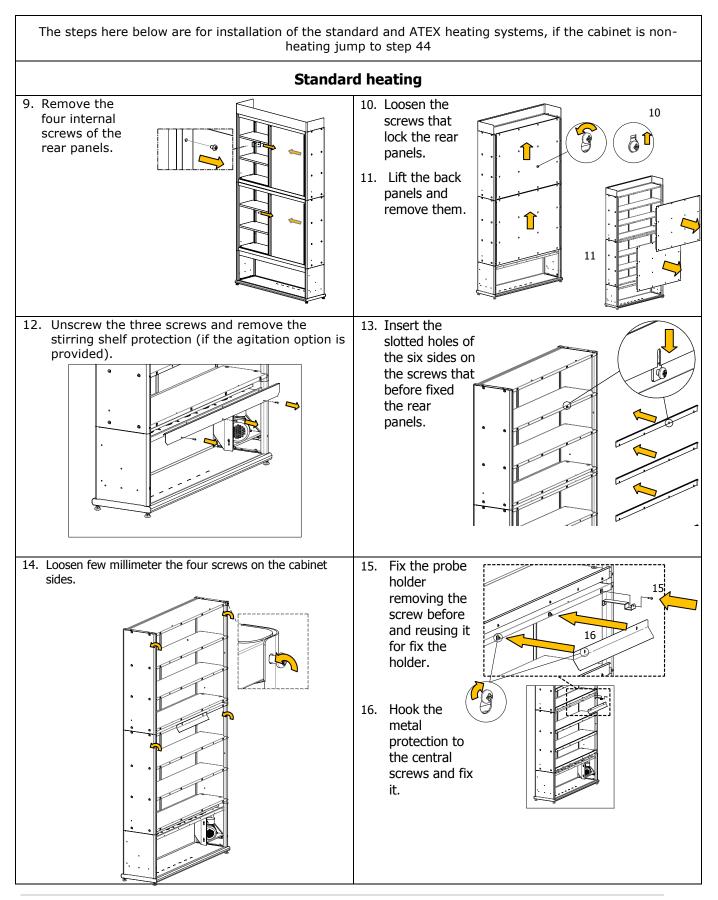
#### Consider the size and weights of the various components that will be moved.

# Is fundamental constraint that the below mentioned installation steps are carried out by least two people with safety gloves and shoes.





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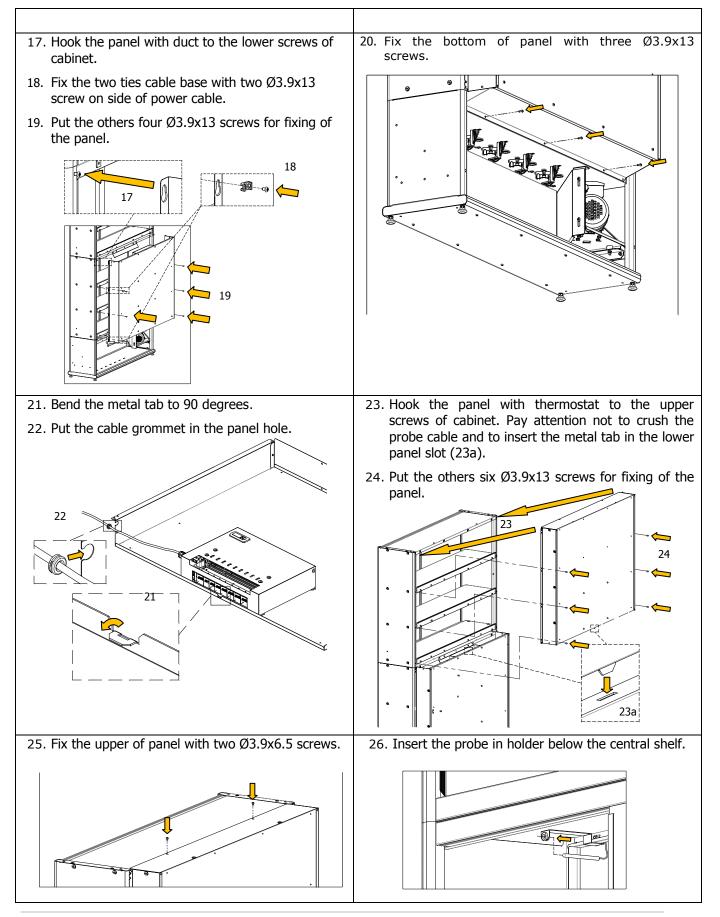




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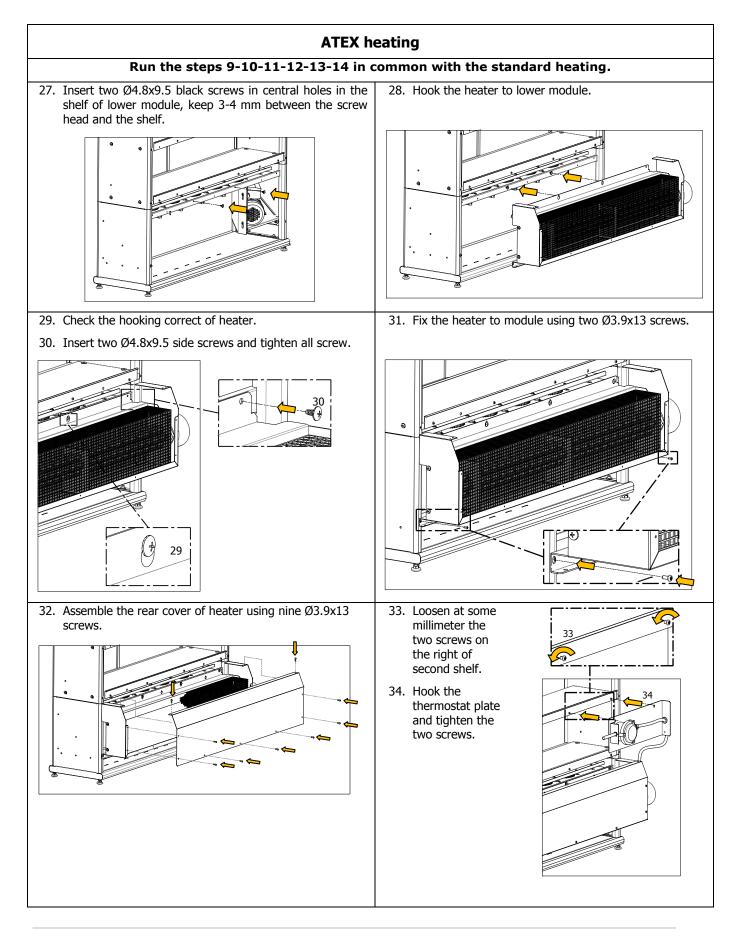
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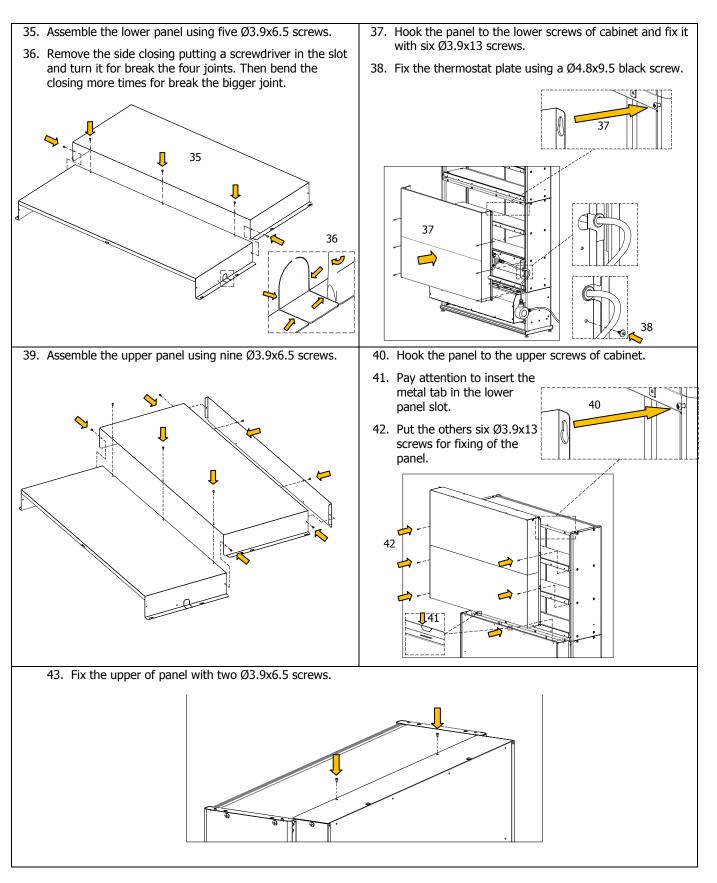




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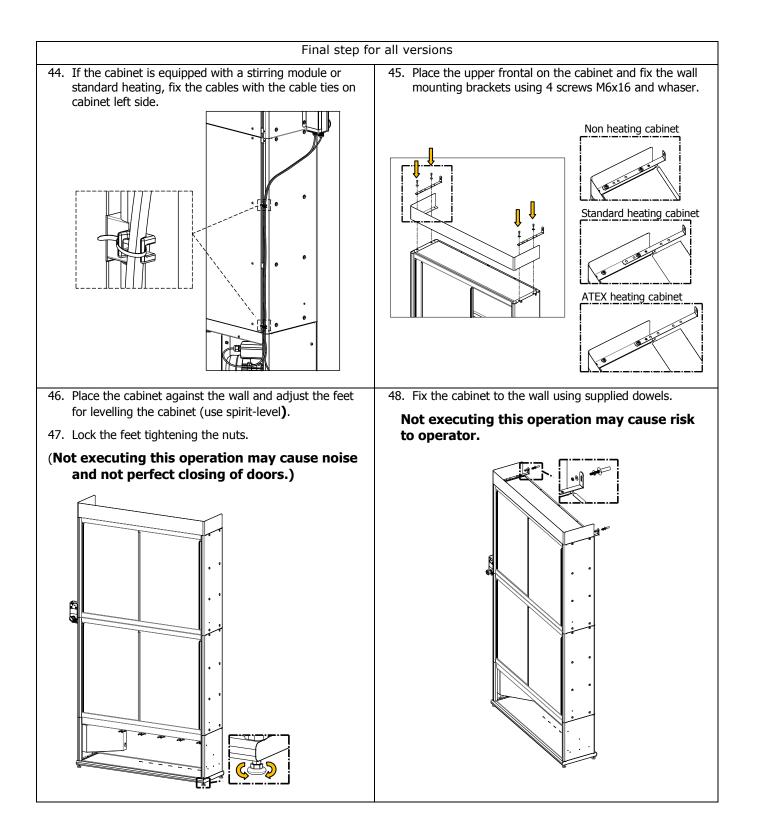
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# 6 USE

#### 6.1 Standard heating system

The cabinet heating system operates through a tangential fan with resistance, both controlled by a digital thermostat that detects the temperature in inside the cabinet thank to a sensor under a shelf.

Once the temperature have reached the set point (factory setting to 19°C) the thermostat will cut the power supply to the fan and resistance until the temperature drops 0,5°C below the set point.

On thermostat display during the heating fase shows the symbol  $\bigcirc$  .

**NOTE:** To change the temperature set point contact the Service Department in Tecmec.

**NOTE:** it's recommended leave the cabinet switched on at the end of the day to maintain a constant temperature of the products inside the cabinet.

#### 6.2 ATEX heating system

The cabinet heating system operates through a thermo convector controlled by a thermostat (explosion proof both) that detects the temperature in inside the cabinet thank to a sensor under a shelf.

Once the temperature have reached the set point (factory setting to 19°C) the thermostat will cut the power supply to thermo convector until the temperature drops 2°C below the set point.

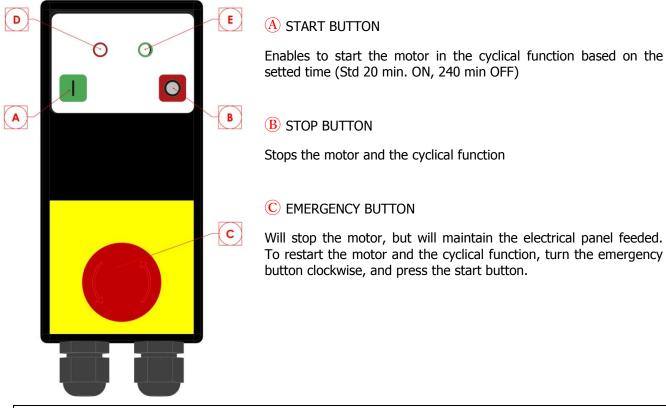
**NOTE:** To change the temperature set point contact the Service Department in Tecmec.

**NOTE:** it's recommended leave the cabinet switched on at the end of the day to maintain a constant temperature of the products inside the cabinet.



**6.3** Operation instruction and electrical panel settings (Version with stirring module)

The stirring shelf is controlled by a electrical panel with internal CPU, that will generate the signal / input to the agitation motor. The control panel is located in the right shoulder of the machine.



INDICATIONS			
Led	Mode	Meaning	
Ē	Green Led fixed light	Dispenser powered (tension present)	
D+E	Red Led flashing and Green Led off	Motor on, agitation phase active	
D+E	Red and Green Led fixed light	Cycle mode active (agitation motor off ready to start)	

#### Note:

# To restart the motor during the pause period, press the red STOP button, wait a few seconds and press the green START button.

In cause of power outage, the cabinet is able to restore its correct operation in total autonomy only for the heating system.

For the stirring shelf, check the cause of the fault and restore the security status. Reactivate the stirring cicle pressing the start button in order to always ensure a good homogenization of the product.

If not, contact the Customer Service Tecmec.



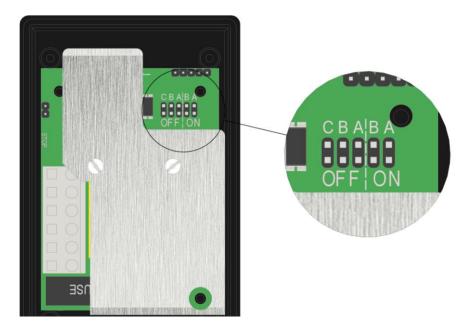
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#### 6.4 Costumized agitation and pause settings (Version with stirring module)

The factory setting (012245) is setted as follow: 20 minutes agitation 240 minutes pause.

If necessary, you can change these settings by doing the following:

- disconnect the machine from the power line
- remove the frame from the bracket
- remove the cover of the panel by unscrewing the 4 rear screws
- following the table below, close the desired contacts with jumpers of the area shown in the figure





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Pause time (min.)			
60 min.	C B A B A OF F ON	No jumper	
120 min.	CBABA OFF ON	Jumper on C	
180 min.	C B A B A OF F ON	Jumper on B	
240 min.	C B A B A OF F ON	Jumper on B+C	
300 min.	C B A B A OF FLON	Jumper on A	
360 min.	C B A B A OF F ON	Jumper on A+C	
420 min.	C B A B A OF F ON	Jumper on A+B	
480 min.	C B A B A OF F ON	Jumper on A+B+C	

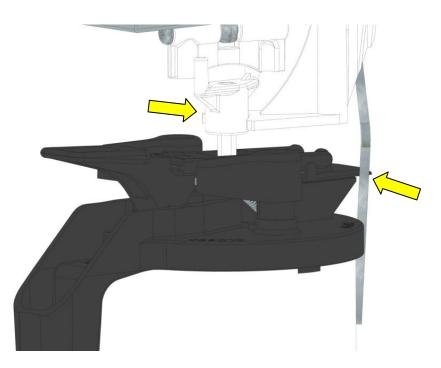
	Shaking time (min.)		
10	) min.	C B A B A OF F ON	No jumper
15	5 min.	C B A B A OF F I ON	Jumper on A
20	) min.	C B A B A OF F I ON	Jumper on B
25	5 min.	C B A B A OF F ON	Jumper on A+B



#### 6.5 Loading and unloading of cans (Version with stirring module)

Add or remove the cans from the respective location only when the machined is turned off.

When placing the can make sure that the lid is properly positioned. The reference point are 2: the spout against the anti rotation "nail", and the fork against the reference points.





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# 7 MAINTENANCE

#### 7.1 Ordinary maintenance

As all the Tecmec products, in order extend the "life time", the cabinet needs a few precautions:

- check every morning that the green led of panel and the display of thermostat are turned on;
- check that all cans are placed properly on the shelves;
- check that all lids of cans are placed properly in the stirring zone;
- in case of leaks, disconnect the machine from electric line and clean immediately the zone with suitable product using appropriate protections;
- leave the machine in operating mode at night and in the weekend to maintain the products ready to them use;
- remember to close the sliding doors after each load and unload operation;
- check the correct function of thermostat, observing the turning on of the corresponding led on display (only for standard heating version);
- check each month the correct function of emergency button. Follow the below steps:
  - I. press the emergency button in any operating mode
  - II. check that the leds on panel are turned off and the motor (in case of stirring) has stopped.
- III. confirmed the functioning of the emergency button, restore the correct functioning of the cabinet pressing the green button of cycle start.

For any other question or doubts please contact the service department in Tecmec.

#### 7.2 Non use periods

In case that the equipment will be switched off, due to a prolonged period of non-use (long holidays or summer holidays), all the cans have to be removed from the cabinet, and store them in a appropriate place.

For restart of work, reposition the cans inside the cabinet and manual stir the cans with stirring lids before repositione on stirring module.



**TROUBLESHOOTING** 

8

### 8.1 Stirring module

Problem	Possible cause	Possible solution
	No power.	Verify that the power cord is connected and intact.
The motor is turning, but the electrical panel is switched off.	The internal thermal protection of the motor have been activaded.	Unplug the unit, wait an hour before connecting again, verify the functioning.
		If not working change the motor.
	Emergency button pressed.	Relase the button, and press the start button.
The electrical panel is not working in all or in some of the buttons.	Possibile tension overload.	Remove the power plug, wait a couple of minutes before reinsert the plug, and operate the equipment.
	Failure on the electrical panel.	Replace the electrical panel.
The motor is turning, but does not transmit the rotation to the	Feather key missing or broken on the reducer shaft.	Replace /insert the feather key.
shelf.	Transmission joint broken or unhooked.	Verify the connection between the joints.
	Machine not correctly positioned.	
Noise machine.	The feets are not adjusted correctly.	Adjust the feets.
The panel is on, but the motor is not working.	Fuse blown.	Change fuse.

### 8.2 Standard heating

Problem	Possible cause	Possible solution
	The resistance doesn't heat.	Contact the service Dep. in Tecmec.
The setted temperature is not	There is a heat dispersion.	Verify the proper sliding doors closing.
reached in the cabinet.	The room temperature where the cabinet is placed is too low.	Place the cabinet in eviroment with a temperature above 5°C.
The thermostat display doesn't	Cavo di alimentazione scollegato o interrotto.	Controllare il cavo che sia integro e collegato alla rete di alimentazione.
turn on.	Termostato non funzionante.	Contattare il servizio di Assistenza Tecmec.



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#### 8.3 ATEX heating

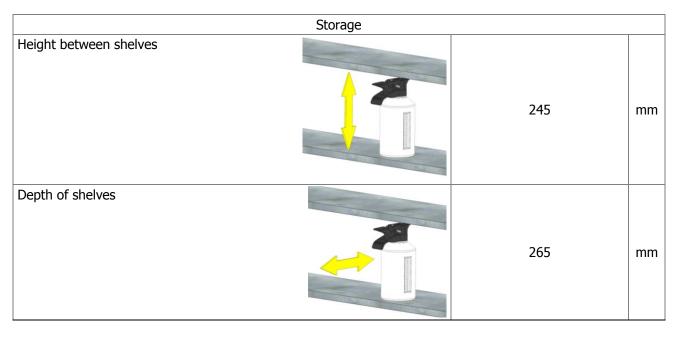
Problem	Possible cause	Possible solution
	The thermo convector doesn't work.	Contattare il servizio di Assistenza Tecmec.
The setted temperature is not reached in the cabinet.	E' presente una dispersione di calore.	Controllare la chiusura delle porte scorrevoli.
	La temperatura del locale ove è posto l'armadio è troppo bassa.	Posizionare l'Armadio in ambienti con temperatura superiore a 5°C.



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# **9 TECHNICAL FEATURES**

Feature		Value	U.M.
Non heated cabinet dimensions	Height x Width x Depth (width with the stirring module)	2225 x 1180 (1250) x 330	mm
Heated cabinet dimensions (standard)	Height x Width x Depth (width with the stirring module)	2225 x 1180 (1250) x 425	mm
Heated cabinet dimensions (ATEX)	Altezza x Larghezza x Profondità	2225 x 1260 x 465	mm
Weight	Net	70	Kg
	Gross	85	Kg
Operating temperature		5÷40	°C
Power supply		220 ±15%	V
Setting temperature of thermostat		15÷25	°C
Frequency		50 (60)	Hz
N° Phase	1Ph+N+ground		
Maximum Absorbed Power – stirring module		0,18	kW
Maximum Absorbed Power – standard heating		0,5	kW
Maximum Absorbed Power – ATEX heating		0.75	kW

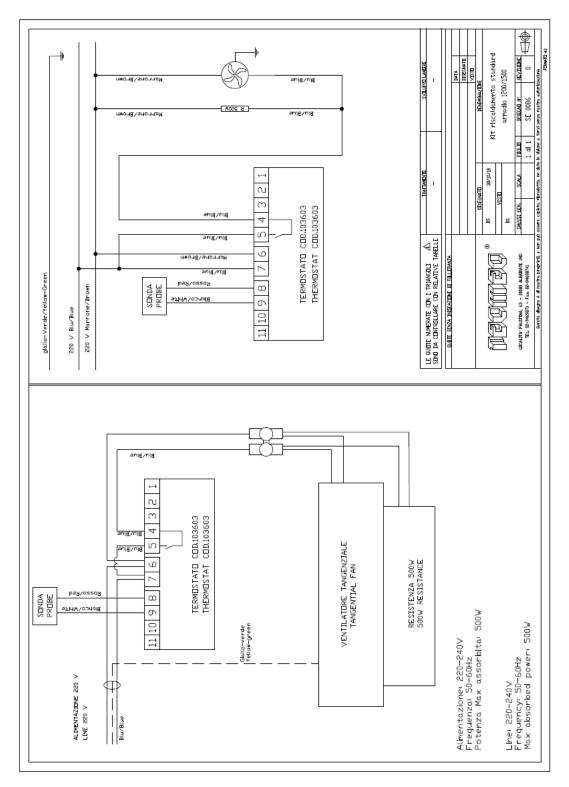


Stirring module	
	max 5 x 3.5L



# **10 S**CHEMI ELETTRICI

#### 10.1 Standard heating

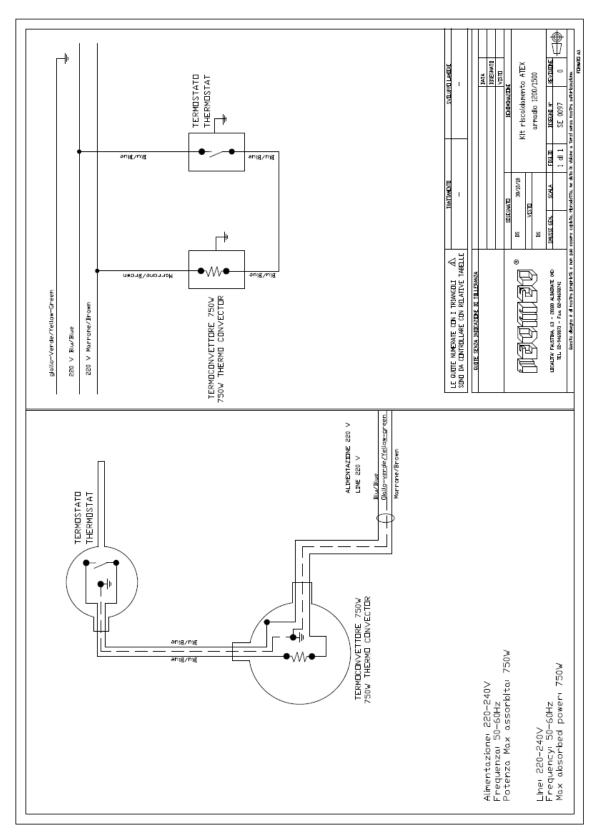




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#### **10.2** Atex Heating



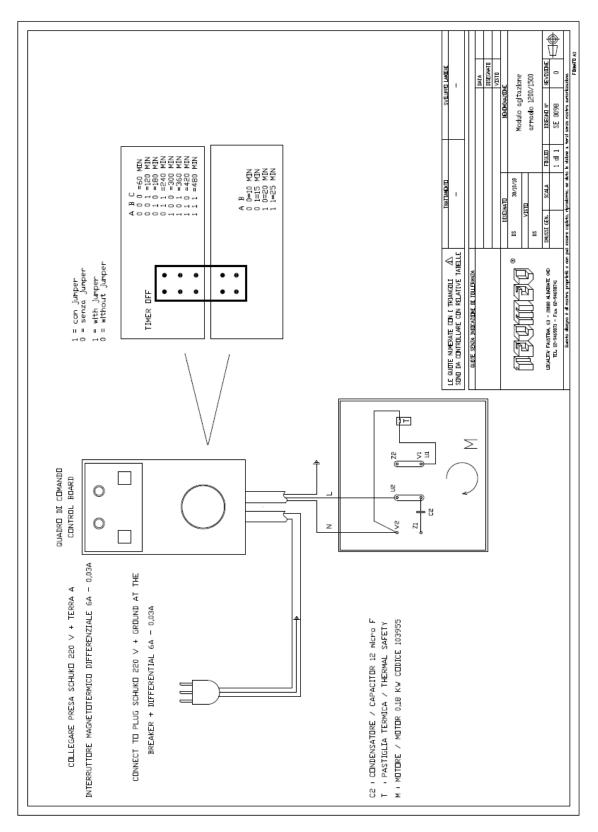


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#### 10.3 Standard stirring module





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## **11 DISPOSAL**

Before starting any operation, disconnect the power cable.

This machine can't be disposed as domestic waste.

For its disposal, disassemble the parts of machine, separating them for type (e.g.: rubber parts, lubricants, solvents, paints, aluminium, ferrous material, etc.).

Dispose the parts following the regarding applicable laws. These standards can require written communications or requests for permission to responsible entities.

The accidentally leaked paints from cans and the products used for cleaning (e.g. paper/rags) must be disposed following the regarding current standards as their dispersion causes damage to people and environment.

For the disposal of colorants, or parts of machine contaminated by them, see to the safety data sheets of the respective products.

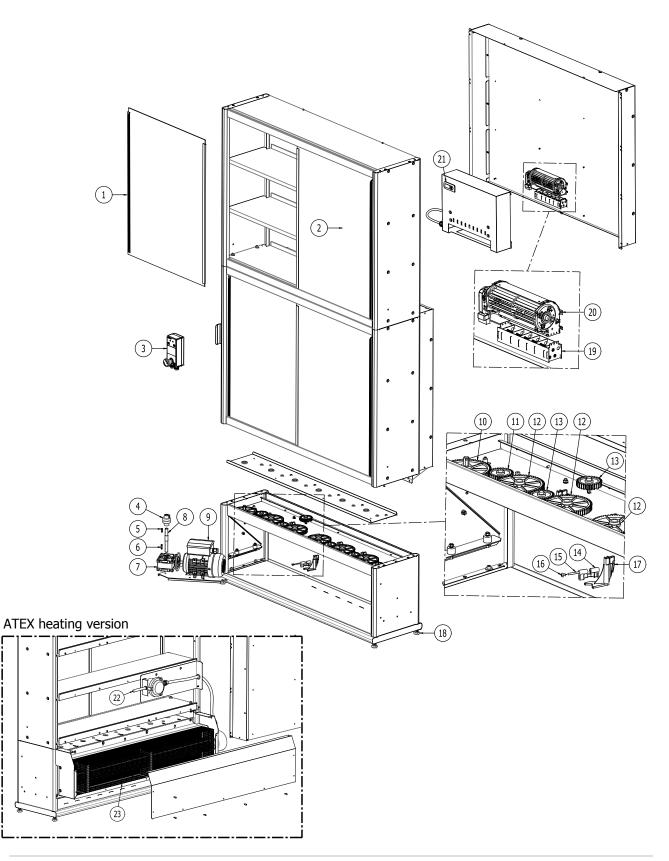


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**12 SPARE PARTS** 





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Pos.	Code	Description
1	012738	LEFT DOOR – CABINET 1200
2	012739	RIGHT DOOR – CABINET 1200
3	012245	ELECTRONIC PANEL (CYCLIC) 20 ON / 240 OFF
	012245-M15	TIMER 15MIN. ON
4	017312	COUPLING Ø14/HEX.12
5	102179	5x5x20 PARALLEL KEY
6	100297	5x5x25 PARALLEL KEY
7	103957	REDUCER 1:50
8	009205	REDUCER SHAFT
9	103955	0.18KW MOTOR
10	015584	Ø120 GEAR WITH HEX. SHAFT
11	001213	IDEL GEAR Ø60
12	008202	IDEL GEAR Ø120
13	001212	Ø60 GEAR WITH HEX. SHAFT
14	008912	HH FAN
15	001218	PIN
16	101348	SELF-TAPPING SCREW Ø4.8X9.5
17	008911	HH POSITIONER
18	103771	ADJUSTABLE FOOT
19	104043	RESISTANCE 3C 2*500W PT135
20	104042	TANGENTIAL FAN TFA001-S7
21	020001	THERMOSTAT
22	104044	THERMOSTAT TAI 0-40°C (ATEX)
23	104045	THERMO CONVECTOR RAEX 0,75/1/3 (ATEX)