

Sirio HH Compact Instruction and maintenance manual Instruction n° 207 - Rev. 4 datel 19/10/2017

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Sirio HH





Code. 012633

Code. 012634

Code. 012635

Instruction and maintenance manual



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1.1 Manufacture 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 label, is located o the left side of the structure, with the below mentioned data:

- Safety and Health Requirements Symbols
- Manufacture Data
- CE Mark
- Production Year
- Serial Number
- Univocal Machine Code
- Motor Protection Class
- Electrical Characteristics

TEQMEQ [®] srl	Loc. Faustina, 63 20080 ALBAIRATE (Milano) ITALY Tel. 0039.2.946987.1 Fax 0039.2.946987.41	CE
Anno di costruzione Manufacture year Baujahr Annee de fabrication Año de fabricación	Matricola N° Serial number Matricule N° Matricule N°	
Codice Code Kodex Code Côdigo	Tipo motore Type motor Typ motor Type moteur Tipo motor	
Caratter. elettriche Elektrische daten Caract. electriques Caract. electriche	Hz	Kw



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1.3 CE Declaration



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

Si dichiara che i macchinari di nostra fornitura 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:

201X

Codice, Code, Código, Maschinenummer:

coulce, coulgo, Maschinenannier.	•	012077
Descrizione, Description, Descripción, Schilderung:	:	SIRIO HH COMPACT Nx3
Matricola, Serial number, Numéro de série, Número de serie, Seriennumme:	:	SNOXXXXX

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, XX/XX/XX

Lillono Ouu

Il legale rappresentante The legal rapresentative Laura Desinano

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1.4 Reffered norms

2006/42/CE	Machine directive
2014/35/UE	Low voltage directive
UNI EN ISO 12100:2010	Safety Machinery - General Principles for Design - Risk reduction and assessment
CEI EN 60204-1	Electrical Equipment of Machines
2014/30/UE	Electromagnetic Compatibility

1.5 Warranty

The warranty covers free of charge the repair or replacement of the components with manufacturing defects.

For the condition, please refer to the document containing the warranty terms inside the CD supplied with the equipment.

In particular the warranty will not cover any transport damage, or non compliance with the installation and or due to operating instructions, and for unauthorized personnel, and for reason not caused by the manufacturer.



The timed dispenser HH Compact is an equipment designed for the professional sector.

2

The unique feature of this equipment is to store/stow in a sheltered place the color pastes contained in suitable container/cans.

In order to avoid accidents or injury to person, or and things, the equippment have to be used by trained personnel.



SAFETY

3.1 Safety norms

The products of the series HH Compact must be included in the assessment of the corporate risk, and requires compliance with applicable laws regarding safety at work .

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To ensure the highest possible degree of safety, for the correct use of the equipment, all measure deemed necessary have been adopted, during the phase of the desing, construction, testing and installation.

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

The used components is in accordance with the applicable standards.

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

3.2 Electrical power supply

Determined the installation area the following prerequisites have to be implemented:

- The main power supply have to be provided through an electrical panel, placed on the wall near to the dispenser.
- The maximun expected power is 0.2Kw. The section of each conductor must be a minimum of 1,5 mm².
- The main power supply line must be fitted with an efficient ground connection, and complies with all the requirements in force.
- The electrical power supply panel must be composed of a differential switch ($I\Delta n=0,03A$) with voltage and phase compatible with the agitation motor (single phase).

To ensure a complete safe operation for the operator and the equipment, it's very important using during the assembly of the electrical panel 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 requiring and characteristic rules of the electrical system, to ensure that they are not a cause of accidents or injuries.

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

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3.3 Working zones

The zones where improper use and not allowed intervention may present risks are the below mentioned :

- Operator Zone (front zone: for cans loading and unloading lateral zone: dispensing)
- Maintenance Zone (front and rear zone)



3.4 Components and safety devices

The machine is equipped with an emergency button, placed on the control panel.

A pressing action of this button cause an immediately emergency stop, classified as category 0, the power to the motor will be interrupted, and will interrupt the agitation movement.

Once the emergency situation is resolved, release the emergency button to restore the normal operation:

- Release the emergency button
- Press the START button

3.5 Residual risks

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

Risk	Precaution
Injuries and or crushing during the loading and or unloading of the cans.	Use protective gloves and safety shoes during loading and unloading of the cans.
Eyes damage due to paint splashes.	Use protective glasses.
	Don't load or unload cans during the agitation.
Improper actions during the agitation cycle.	Don't put your hands, or tools/items in the agitation zone during the normal operation cycle.

The dispenser is designed to handle colorant/pastes of various types. Prior to their use, follow the instructions, warning and safety instruction on each individual can/package, and on the data sheet issued by the producer.



3.6 Symbols shown on the equipment

	Danger electricall hazard .
230 VOLT	Is forbidden to carry out work on the equipment under voltage.
	Is forbidden to operate on the electrical system without authorizations.
	Danger gear in movements.
	Forbidden to load or unload the cans during the agitation cycle.
	Mandatory to read carefully the instruction manual, before carry out any operations on the equipment.
	Obligation earthing requirement of the electrical system.

3.7 Intended use of the equipment

The unique feature of this equipment is to store/stow in a sheltered place the color pastes contained in suitable container/cans (not provided byTecmec) closed by suitable lids (provided by Tecmec).

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:

- Load or unload the cans during the agitation cycle/process, as the drive blades are in motion. During this process the Led warning is clearly visible on the control panel.
- Any kind of manumission or unauthorized intervention on the electrical control panel.
- Access the motor compartment by unauthorized personnel, and in any case when the plug for the main power is connected.
- Remove the protection from the motor compartment, if so only during the maintenance phase done only by expert 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 equipment are packed in special cardboard boxes and transported on pallets.

Each box is labeled with: type of module, code, production order.

The identification label with the symbols, and the risks and residual risks is located on the front side of the motor module panel.

In case of needs to move an operating equipment please follow the below points:

- always operate by following the instruction provided by existing accident prevention regulation
- remove the shelf's, and place all the colorants cans in a appropriated place
- place the dispenser on a pallet
- move the pallets with appropriated means to the new destination
- install the equipment by following the instructions

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



5 INSTALLATION

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 four (4) person.





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in case of wall mounting go to step F

Proceed with the assembly of the leveling feet and nuts.

Verify that the floor where the dispenser will be installed, is leveled.

In case the dispenser is not stable, adjust the 4 fleets and lock the counter nuts.



If this procedure is not carried out, the resault could lead to noise, malfunctions, abnormal wear of moving parts, and pose risks to the end user.





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6 OPERATING

6.1 Operation instruction and electrical panel adjustment

The mixing machine 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 lower part 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.



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6.2 Customized agitation and pause settings

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.	C B A B A OF F	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 FLON	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 min.	C B A B A OF F I ON	Jumper on B	
20 min.	C B A B A OF F ON	Jumper on A	
25 min.	C B A B A OF F I ON	Jumper on A+B	

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6.3 Change of function mode

Regardless of the factory settings, if necessary, the electronic control panel can be changed from cyclic (ON/OFF) into timer (only one stirring cycle).

The change of operation mode from cyclic to timer is possible by acting on the side contact jumper of the card shown in the figure.



In cyclic operating condition the jumper is not present (open contact) and in timer mode the jumper is present (closed contact).

When the change is made, follow the previous table for stirring and pause settings.

Close the control panel, supply voltage and check if the operation is the desired one.



6.4 Loading and unloading of cans

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 point.





7 MAINTENANCE

7.1 Ordinary maintenance

To extend the life time of the equipment, the HH Compact needs some flew precaution:

- verify every morning that the power lights in **ON**;
- verify that all the lids of the cans/tins are properly placed in the agitation zone;
- in case of liquids spill, disconnect the equipment from the main electrical line, clean immediately the area by using the proper products;
- leave the equipment in always operation mode, even during the evening and weekends, in order to keep the products always ready to be used;
- verify every six months the correct tightening of the transmission, transmission joints, and the proper tension of the motor belt;
- verify every months the functionality of the emergency button by following the below steps:
 - 1- press the button during any operation phase, verify that the lights on the control panel are switched off, and in case of agitation that the motor will stop .
 - 2- once the procedure is done, restore the equipment by pressing the green START button.

For any other kind of issues or doubts, please, contact the Customer Service Dep. in Tecmec.

7.2 Non use periods

In case that the equipment will be switched off, due to a prolonged period of non-use, to avoid a overload issues on the motor it is necessary to proceed as follow:

- remove all the cans/tins from the shelf's, execute a mixing trough a mixer/shaker or in alternative a manual mixing, and verify any eventual consistency problem.
- in group of 2-3 locate them on the equipment, and mix them for at least 5 minutes.
- stop the agitation, and add other cans/tints for the mixing cycle. Proceed as above until all the cans/tins are stored in the equipment.

In case of power failure, verify the reason, once restored the situation, restart the agitation cycle by pressing the green START button, in order to always ensure a good homogenization of the product.

During the loading and unloading of the cans, stop the agitation cycle by pressing the red STOP button.



8 TROUBLESHOOTING

Problem	Possible cause	Possible solution
	No power.	Verify that the power cord is connected and intact.
The motor is stopped and the electrical panel is switched off.	The thermal protiction internal of the motor have been activaded.	Unplug the unit, wait an hour before connecting again, verify the functioning.
electrical parter is switched on.		If not working change the motor.
	Emergency button pressed.	Release the button by turning; then 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 few minutes before reinsert the plug and operate the equipment.
buttons.	Failure on the electrical panel.	Replace the electrical panel.
The motor is turning but does	Feather key missing or broken on the reducer shaft.	Replace /insert the feather key.
vertical shaft.	Transmission joint broken or unhooked.	Verify the connection between the various 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.

For any other kind of issues or doubts, please, contact the Customer Service Dep. in Tecmec



9 SPECIFICS

Feature		Value	U.M.
Dimension	Height	min 640 / max 1310	mm.
	Width	765	mm.
	Depth column	225	mm.
Net (without colorrants)	Minimum	20	Kg.
	Maximum	35	Kg.
Operating temperature		10÷40	°C
Power supply		220 ±15%	V
Frequenzy		50 Hz (60Hz)	Hz
N° Phase		1Ph+N+TERRA	
Maximum Absorbed Power		0,2	kW
Protection class		IP55	
Noise levell		62.1	db

Electrical panel

Dimensions :	15 x 7 x 5 cm
Protection class:	IP54
Electrical panel protection:	Internal fuse 10 A
Power suplly:	220V 50/60Hz
Keyboard:	membrane type with raised buttons and emergency button
Indications:	Red led - Green led

Motor

Asynchronous single phase :	S1	
Rated data :	type MYT 0,180 kW 4 poli 220/240V-50Hz	
Construction:	B14	
Thermal protection :	Thermal probe inside the winding	
Capacitor:	12µF inside the terminal box	
Referred norms:	IEC 60034	



10 ELECTRICAL SCHEMATIC

10.1 Wiring electrical panel standard motor single phase





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11 DISPOSAL

Before caring out any kind of operation disconnect the power plug.

This equipment **can't** be disposed as domestic waste.

In case of disposal, dismantle and divide as much as possible the different parts of the equipment based on the different materials, (such as pipes, rubber components, lubrificants, solvent, paints, aluminum, copper, ferrous, material etc.)

Proceed with disposal in accordance with the current laws, which may also require written communication or request for approval to the responsible authority.

The products which are accidentally spilled from the cans, but also contaminated products as paper/rags used for the cleaning, must be recovered and disposed in according to the current regulation, since their dispersion could cause damage to people and to the environment.

For the disposal of the colorants, or for the contaminated parts, refer to the safety data sheet of the relative products.



12 SPARE PARTS

	012245 012245-M15	Electrical panel IP54 20on/240off	
	101997	Motor Reducer 0.18Kw 220V 50Hz 20/1	
	017312	Joint Ø14/Esag. 12	
	001213	Idle Gear Ø60	
	001212	Gear Ø60 with hexagonal pin	
	008194	Central gear Ø60 with hexagonal hole 12	
California	008202	Idle gear Ø124	
	008912	Coupling fork HH	