



ING. O. FIORENTINI S.p.A. INDUSTRIAL CLEANING MACHINES

AUTOSCRUBBER MACHINE MOD. Giampy



OPERATING INSTRUCTIONS AND MAINTENANCE

Congratulations for your choice!

FIORENTINI S.p.A. thanking you for the preference to our product, would like to remind you that FIORENTINI'S S.p.A. production covers manufacture and marketing of industrial cleaning machines and is currently a Leading industry in this sector.

Our tradition and competence guarantee technical quality of your choice; actually all our products are being built first quality materials through criteria that can give reliability, solidity and functionality satisfying every kind of customers. FIORENTINI has recently obtained the quality system certificate conforming to the requirements of UNI EN ISO 9001:2000.

We wish therefore inviting you to contact us, unhesitatingly, for every kind of request, as technical or commercial; we'll be pleased to be at your disposal for any information you may need.

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1. GENERAL INFORMATION

1.1. USED SYMBOLS



This symbol is used to quote the attention of the operator on procedures or precautions to be followed to avoid damages to users or to the support



This symbol is used to quote the attention of the operator on general informations

1.2. NOTES



This manual is property of FIORENTINI S. p. A.

All rights reserved to copy, totally or in part, and transmission to third parties with mechanic, electronic or whatever means, without permission of manufacturer. It's been made in one original copy unless differently specified in order place.

Manual is delivered with relative machine, of whom it constitutes integral part, and it has to be given in case of transfer of the machine too. We remind to put it in a safe place and keep it for all the machine lifetime. Purchaser is responsible to show it to qualified people. In case of loss ask for a duplicate to FIORENTINI Co..

FIORENTINI decline every responsibility for any kind of possible damages caused by persons and/or things due to non-observance of instructions in this manual.

FIORENTINI reserves the right to introduce in every moment and without notice all the technical and commercial changes useful considered. Therefore data and information reported could have changes and/or updating notes.

1.3. MANUAL REFERENCES

This manual deals exhaustively with all necessary arguments for easy and safe use of the machine, as recommended by European Directives about product security.

Consequently we recommend to all authorized operators to use it of reading attentively this manual in every part and carefully applying everything indicated, asking for explanations to FIORENTINI in case of doubt. The manual must also be used as referring documentation each time it needs to remind a procedure or operation or to train new operators.

For publishing reasons, pictures and drawings can look different from reality however without showing meaning doubts.

Special symbols and **bold type** and/or *sloping* remind the attention of the reader on remarkable information, particularly for safety.

Index of review is reported, each single page, at the bottom. List of revised pages can be found to the end of the manual.

1.4. WARRANTY

Terms and conditions of warranty are stated to the following points if not differently specified in the order confirmation.

OBJECT OF WARRANTY

The autoscrubber has been conceived and built for a long-term use without relevant problems; anyway, in case of anomalies during the warranty period, FIORENTINI Co. is engaged to repair and/or substitute for free parts which have shown early breakage or wear and tear caused by defective materials, working defects or imperfect assembly.

Warranty is not given for parts which early breakage or wear and tear are due to:

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GENERAL INFORMATION

GIAMPY

- Non-respect of instructions included in this manual;
- Breaking and/or changes made up without FIORENTINI's approval;
- · Not-use of genuine wear parts;
- Interventions made up by unauthorized personnel;
- Maintenance missing;
- · Natural calamities.

WARRANTY TERMS

The Ing.O.Fiorentini S.p.A. general terms conditions also apply to the warranty.

The manufacturer cannot be held responsible in any way for damages resulting from unauthorised modifications made to the appliance, from the use of unsuitable brushes and accessories and after use of the device other than that intended.

GOODS TO BE RETURNED

In case of goods to be returned for warranty replacement, it is necessary to have a written acceptance from FIORENTINI technical department before sending them.

All defective parts must be carefully packed in order to avoid further damages during transport. Goods must be shipped ex-warehouse and followed by:

- serial number of the equipment where they were installed on;
- item code of the defective part;
- detailed description of the defect and of the conditions where it happened.

In case of defective electric or electronic goods, please return them separately from other materials, in order to help us in dividing dangerous waste goods and recycle the (RAEE) as DER 2002/96/CEE LOW.



EXCLUSIONS

Warranty does not cover normal wear parts and materials (brushes, squeegee blades, etc...), and those parts of whom is impossible to define lifetime in advance.

APPLICATION MODES

In order to establish anomalies causes, so that warranty could be applied, is necessary that defective components must be sent to FIORENTINI. Repairing or substituting works under warranty will be, by FIORENTINI's opinion, made in its own workshop, or by third party on place. Works on place, are supplied with customer's energy sources and exceptional equipment to repairing if necessary.

INTERVENTION DEMANDS

Possible intervention demands have to be addressed to the technical assistance service of FIORENTINI Co. in writing or by phone, just after a attentive analysis of fault and of causes, so that it would be necessary to report to the agent the following data:

- Machine model, get from the relative label (point 2.1.);
- number, get from the relative label (point 2.1.);
- detailed description of defect and the way it happened;
- controls and/or regulations made;
- code number and position of possible defective component, deduced from spare parts list;

Components recognized under warranty are delivered ex works; those ones being substituted are property of FIORENTINI Co..



The relative label missing will involve the loss of any kind of warranty.

1.5. CONFORMITY DECLARATION

Conformity declaration is consigned with the support and the manual of operating and maintenance instructions.

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DICHIARAZIONE CE DI CONFORMITA'-DECLARATION OF CONFORMITY DECLARATION DE CONFORMITE-EG-Konformitätserklärung-**DECLARACION DE CONFORMIDAD**

(ai sensi dell'allegato II 1.A della Direttiva Macchine 2066/42/CE)

La ING.O.FIORENTINI SPA

con sede in Via Piancaldoli 1896 Firenzuola, 50033, (FI)

DICHIARA/DECLARES/DECLARE/ERKLÄRT/ DECLARA

n qualità di costruttore sotto la propria responsabilità che la macchina As manufacturer under its own responsibility that the machine En tant que fabricant sous sa propre responsabilité que la machine Als Hersteller, erklären, in alleiniger Verantwortung, dass das Produkt Como fabricante, bajo su responsabilidad que la máquina



Modello/model/modèle/Typ/modelo

Matricola/serial number/numero de série/ Fabriknummer/ Número matricula Anno di costruzione / Year of production/ Annee de production/ Baujahr/ Año de producción

a cui la presente dichiarazione si riferisce è conforme alle prescrizioni which this declaration refers to, is in conformity with the requirements à laquelle se réfère cette déclaration, est en conformité avec les prescriptions Auf das sich diese Erklärung bezieht, mit der normativen übereinstimmt. que esta declaración se refiere, está en conformidad con los requisitos

della direttiva macchine 2006/42/CE/ Directive 2006/42/CE / de la Directive 2006/42/CE / der EG-Richtlinie 2006/42/EG über Maschinen / De la directiva maquinas 2006/42/CE

della direttiva compatibilità elettromagnetica 2014/30/EU/ the Electromagnetic Compatibility Directive 2014/30 / EU / de la Directive Compatibilité Electromagnétique 2014/30 /EU / elektromagnetische Verträglichkeit (EMV) 2014/30/EU / la directiva de compatibilidad electromagnetica 2014/30/EU

della direttiva sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE) 2012/19/UE/ Directive on Waste of Electrical and Electronic Equipment (WEEE) 2012/19 / EU/ de la directive relative aux déchets d'équipements électriques et électroniques (DEEE) 2012/19 / UE / Elektrische und elektronische Geräte Abfälle (DEEE)2012/19/UE Directiva sobre residuos de aparatos eléctricos y electrónicos (RAEE) 2012/19/UE/

(ISCRIZIONE AL REGISTRO PRODUTTORI A.E.E.: Nº IT12010000007391)

In particolare alle disposizioni normative In particular, the regulatory rules En particulier, les dispositions réglementaires Gemäß den Bestimmungen der Richtlinie En particular, las normas reguladoras

EN ISO 12100, EN ISO 13857, EN ISO 13850, EN 60204-1, EN 349, EN 953, EN ISO 4413, EN 60335, EN 60335-1, EN 60335-2-69, EN 60335-2-72, EN 55014-1, EN 55014-2, EN 62233, EN 61000-6-2, EN 61000-6-4

Il fascicolo tecnico è costituito da Ing.O.Fiorentini S.p.a. in qualità di persona giuridica- via Piancaldoli 1896 Firenzuola 50033 Fraz. Piancaldoli (FI) - Italia The technical dossier consists of Ing.O.Fiorentini Spa as a legal person - via Piancaldoli 1896 Firenzuola 50033 Fraz. Piancaldoli (FI) - Italy Le dossier technique est constitué de Ing.O. Fiorentini Spa comme personne juridique - via Piancaldoli 1896 Firenzuola 50033 Fraz Piancaldoli (FI) - Italie Die technische Dokumentation besteht aus Ing.O. Fiorentini Spa as a legal person - via Piancaldoli 1896 Firenzuola 50033 Fraz. Piancaldoli (FI) - Italy El expediente técnico se compone de Ing.O. Fiorentini Spa como una persona jurídica - via Piancaldoli 1896 Firenzuola 50033 Fraz. Piancaldoli (FI) - Italia

| | Ing. O. Fiorentini S.p.a. |
|--------------|---|
| | Il Legale Rappresentante/president/gérant/representante |
| Piancaldoli | Angelica Maria Cerutti |
| Luogo e data | Firma butti Pasquiea Maria |

Firma

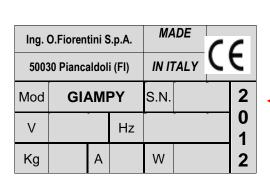
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2. SUPPORT FEATURES AND SPECIFICATIONS

2.1. IDENTIFICATION

The autoscrubber machine can be identified with an adhesive label put on the protection carter in the backside of the machine which will clearly report the data referring to "CE" marking.





PICTURE N° 2.1



The label has never to be removed and should be always kept legible. In case of damaging it's necessary to ask for a duplicate. The autoscrubber machine cannot be commercialized without the label.

2.2. DESCRIPTION AND COMPONENTS

The autoscrubber machine Giampy has been designed for treatment of flat areas through washing and following process of water drying. The power supply is furnished of a series of accumulator batteries, that charge all the engines and the electrical controls.

The machine, depending on the model, can be supplied with one or two rotating brushes having in charge, assisted by water and detergent action, to wash the areas. As the machine advances the brush in the back (squeegee), touching the floor take the water that, at the same time, is aspired and piped in the recovery tank.

The dashboard controls some of the functions of the machine and put at the operator's disposal a signaling system, through lighting leds, of the remaining charge of the battery. With the dashboard is possible to carry out the following functions:

- to start the washing brushes;
- to start the suction motor;
- > to switch on and off the machine;

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The bearing structure of the machine is made of a steel zinc-plated chassis or in stainless steel, so that to avoid oxidation problems which could compromise the reliability of the machine.

The main components of the machine are:

- > steel zinc-plated chassis or stainless steel;
- > solution tank in plastic PE-HD;
- recovery tank in plastic PE-HD complete with piping flexible system of suction and drainage;
- > a set of batteries placed in the recovery tank space;
- rotating brushes;
- suction system (squeegee);
- > one free caster-wheel;
- two traction wheels;
- driving unit;

FIORENTINI Co., taking care of new safety rules in CE community, has manufactured the machine following safety and health rules of the CE normative. High quality material used, high technology and Fiorentini experience allowed to have performing machine.

Each machine is inspected during the manufacturing time and the final check is done before shipping out the machine.



2.3. TECHNICAL DESCRIPTION

VERSION ELECTRIC AND ELETTRIC TRACTION GIAMPY20:

| DIMENSIONAL CHARACTERISTICS | GIAMPY20E | GIAMPY20ET |
|-----------------------------|------------------|-------------------|
| LENGHT | 1000 mm | |
| WIDTH | 550 |) mm |
| HIGHT | 108 | 0 mm |
| SCRUBBING BRUSH | N°1 Ø | 500 mm |
| SCRUBBING WIDTH | 500 |) mm |
| SQUEEGEE WIDTH | |) mm |
| DRIVE | WALK- | BEHIND |
| SOLUTION TANK CAPACITY | 50 | litres |
| RECOVERY TANK CAPACITY | 50 | litres |
| TRACTION (FRONT/REAR) | - | FRONT |
| WEIGHT WITHOUT BATTERIES | 80 Kg | 85 Kg |
| ELECTRIC CHARACTERISTICS | | |
| VOLTAGE | 220/230 V ~ | |
| BRUSH GEARMOTOR | N°1 x 230V 550W | |
| TRACTION MOTOR | - N°1 x 24V 130W | |
| SUCTION MOTOR | N°1 x 2 | 30V 350W |
| FUNCTIONAL CHARACTERISTICS | | |
| SQUEEGEE LIFT CONTROL | LE | VER |
| VACUUM CONTROL | SWITCH | |
| BRUSH LIFT CONTROL | SWITCH | |
| PERFORMANCES | | |
| FORWARD RUNNING SPEED | | 0 / 4 km/h |
| HOUR SCRUBBING | - 2000 m²/h | |
| ECOLOGIC CHARACTERISTICS | | |
| NOISE AT DRIVER'S EAR | 72 dB | |



The above characteristics are not a must for the manufacturer so they can be changed without any notice .In any case ING.O.FIORENTINI Co. Is always at disposal for any information (6.1.).

| MEASUREMENT UNIT CONVERSION | | | |
|-----------------------------|---|----------|---------------------------|
| Lenght | 1 inch = 1" = 25,4 mm | Power | 1 kW = 1,36 CV = 1,34 BHP |
| Temperature | T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32 | Pressure | 1 bar =100 kPa = 14,5 psi |

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BATTERY VERSION GIAMPY20/24:

| DIMENSIONAL CHARACTERISTICS GIAMPY20B GIAMPY | | GIAMPY24B |
|--|---------------------------------|-----------------|
| LENGHT | 1000 mm | 1300 mm |
| WIDTH | 550 mm 710 mm | |
| HIGHT | 1080 mm | 1040 mm |
| SCRUBBING BRUSHES | N° 1 x Ø 500 mm | N° 2 x Ø 305 mm |
| SCRUBBING WIDTH | 500 mm | 610 mm |
| SQUEEGEE WIDTH | 750 | mm |
| DRIVE | WALK-E | BEHIND |
| SOLUTION TANK CAPACITY | 50 li | itres |
| RECOVERY TANK CAPACITY | 50 li | itres |
| TRACTION (FRONT/REAR) | FRO | DNT |
| WEIGHT WITHOUT BATTERIES | 91 Kg | 105 Kg |
| ELECTRIC CHARACTERISTICS | | |
| VOLTAGE | 24 V | |
| BRUSH GEARMOTOR | N°1 x 24V 400 W N°1 x 24V 850 V | |
| TRACTION MOTOR | N°1 x 24V 130W | |
| SUCTION MOTOR | 24 V 5 | 550 W |
| FUNCTIONAL CHARACTERISTICS | | |
| SQUEEGEE LIFT CONTROL | LEV | /ER |
| VACUUM CONTROL | SWI | TCH |
| BRUSH LIFT CONTROL | SWITCH | |
| PERFORMANCES | | |
| FORWARD RUNNING SPEED | 0 / 4 km/h | |
| HOUR SCRUBBING | 2000 m²/h 2400 m²/h | |
| ECOLOGIC CHARACTERISTICS | | |
| NOISE AT DRIVER'S EAR | 72 dB | |



The above characteristics are not a must for the manufacturer so they can be changed without any notice .In any case ING.O.FIORENTINI Co. Is always at disposal for any information (6.1.).

| MEASUREMENT UNIT CONVERSION | | | |
|-----------------------------|---|----------|---------------------------|
| Lenght | 1 inch = 1" = 25,4 mm | Power | 1 kW = 1,36 CV = 1,34 BHP |
| Temperature | T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32 | Pressure | 1 bar =100 kPa = 14,5 psi |

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BATTERY VERSION GIAMPY22 WITH 1 OR 2 BRUSHES:

| DIMENSIONAL CHARACTERISTICS | GIAMPY22/1 | GIAMPY22/2 |
|-----------------------------|---------------------------------|-----------------|
| LENGHT | 1350 mm 1300 mm | |
| WIDTH | 595 mm | 815 mm |
| HIGHT | 1040 |) mm |
| SCRUBBING BRUSHES | N° 1 x Ø 550 mm | N° 2 x Ø 285 mm |
| SCRUBBING WIDTH | 550 mm | 550 mm |
| SQUEEGEE WIDTH | 750 | mm |
| DRIVE | WALK-E | BEHIND |
| SOLUTION TANK CAPACITY | 50 li | itres |
| RECOVERY TANK CAPACITY | 50 li | itres |
| TRACTION (FRONT/REAR) | FRO | DNT |
| WEIGHT WITHOUT BATTERIES | 91 Kg | 105 Kg |
| ELECTRIC CHARACTERISTICS | | |
| VOLTAGE | 24 V | |
| BRUSH GEARMOTOR | N°1 x 24V 550 W N°2 x 24V 200 \ | |
| TRACTION MOTOR | N°1 x 24V 130W | |
| SUCTION MOTOR | 24 V 5 | 550 W |
| FUNCTIONAL CHARACTERISTICS | | |
| SQUEEGEE LIFT CONTROL | LE\ | /ER |
| VACUUM CONTROL | SWI | TCH |
| BRUSH LIFT CONTROL | SWI | TCH |
| PERFORMANCES | | |
| FORWARD RUNNING SPEED | 0 / 4 km/h | |
| HOUR SCRUBBING | 2200 m²/h | |
| ECOLOGIC CHARACTERISTICS | | |
| NOISE AT DRIVER'S EAR | 72 dB | |



The above characteristics are not a must for the manufacturer so they can be changed without any notice .In any case ING.O.FIORENTINI Co. Is always at disposal for any information (6.1.).

| MEASUREMENT UNIT CONVERSION | | | |
|-----------------------------|---|----------|---------------------------|
| Lenght | 1 inch = 1" = 25,4 mm | Power | 1 kW = 1,36 CV = 1,34 BHP |
| Temperature | T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32 | Pressure | 1 bar =100 kPa = 14,5 psi |

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VERSION BATTERY GIAMPY22 WITH CYLINDRICAL BRUSHES:

| DIMENSIONAL CHARACTERISTICS | GIAMPY22 CILIN.BRUSHES | |
|--------------------------------|---|--|
| LENGHT | 1180 mm | |
| WIDTH | 810 mm | |
| HIGHT | 1080 mm | |
| SCRUBBING BRUSHES | N° 2 cylindrical brushes Ø 110 mm L=500 mm | |
| SCRUBBING WIDTH | 500 mm | |
| SQUEEGEE WIDTH | 750 mm | |
| DRIVE | WALK-BEHIND | |
| SOLUTION TANK CAPACITY | 50 litres | |
| RECOVERY TANK CAPACITY | 50 litres | |
| TRACTION (FRONT/REAR) | FRONT | |
| WEIGHT WITHOUT BATTERIES | 105 Kg | |
| ELECTRIC CHARACTERISTICS | | |
| VOLTAGE | 24 V | |
| RUSH GEARMOTOR N°1 x 24V 650 W | | |
| TRACTION MOTOR | N°1 x 24V 130W | |
| SUCTION MOTOR | N°1 x 24 V 550 W | |
| FUNCTIONAL CHARACTERISTICS | | |
| SQUEEGEE LIFT CONTROL | LEVER | |
| VACUUM CONTROL | SWITCH | |
| BRUSH LIFT CONTROL | SWITCH | |
| PERFORMANCES | | |
| FORWARD RUNNING SPEED | 0 / 4 km/h | |
| HOUR SCRUBBING | 2020 m²/h | |
| ECOLOGIC CHARACTERISTICS | | |
| NOISE AT DRIVER'S EAR | 72 dB | |



The above characteristics are not a must for the manufacturer so they can be changed without any notice .In any case ING.O.FIORENTINI Co. Is always at disposal for any information (6.1.).

| MEASUREMENT UNIT CONVERSION | | | |
|-----------------------------|---|----------|---------------------------|
| Lenght | 1 inch = 1" = 25,4 mm | Power | 1 kW = 1,36 CV = 1,34 BHP |
| Temperature | T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32 | Pressure | 1 bar =100 kPa = 14,5 psi |

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3. SAFETY

3.1. CORRECT USE



The machine is a scrubbing machine and has been studied and manufactured to be used to clean flat floors or with maximum slop of 5%...

3.2. INCORRECT USE

- Not authorized operator uses;
- Not regular floors cleaning;
- Cleaning of surfaces with more than 5% slope;
- To use the machine in place with dangerous products;
- Floor cleaning with inflammable products;
- To use the machine as transport vehicle of person or goods;
- Modify or removing protection device;
- Charging the batteries in places with no suction or with good ventilationi;
- No respect of safety rules from the operators;
- Any modification that can modify the correct machine function;
- Any modification not authorized by Fiorentini Co.;
- Use of acid products that can damage the machine;
- Not respect of what mentioned in the operator's manual.



Read carefully the information labels placed on the machine, don't cover them for any reason.

FIORENTINI is not responsible for the machine use not in a correct way.

3.3. SUGGESTED EQUIPMENT

In order to use in a better way the machine characteristics we suggested to use the original parts and spare parts studied by Fiorentini Co.. In any case the Technical department is at customers disposal in order to satisfy any needs.



GIAMPY

3.4. OPERATOR QUALIFICATION

Follow the request operator qualification for different uses.

| OPERATION TYPE | OPERATOR QUALIFICATION |
|--------------------------------|------------------------|
| Use /Inspection | Taught operator |
| Installation / disinstallation | Specialized technician |
| Mechanical parts maintenance | Specialized technician |
| Electrical parts maintenance | Specialized technician |
| Ordinary maintenance | Taught operator |
| Dismantling and demolition | Specialized technician |
| Use /Inspection | Taught operator |

We recommend to teach the personnel to the use of the machine, above all for that it concerns safety aspects; particularly operators must read and understand this manual.



FIORENTINI decline every responsibility for accidents to persons or things from using the machine by non-authorized or unqualified operators.

3.5. PROTECTION AND ALARM SYSTEMS



- It is absolutely forbidden to camper with these dispositives, keep them out or disconnect during the functioning of the machine.
- We recommend to verify periodically their efficiency.

Brushes covers

The autoscrubber Giampy can be equipped with one or two scrubbing brushes, rotating during the normal use. The accessibility to dangerous areas has been avoided through fixed plastic protections. The removal of these ones can just be done voluntary provoking the separation from the machine.



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3.6 SAFETY DEVICES

This machine is provided of the following safety systems.

Electric plug (picture 3.1), used similarly for the battery charger. In case of emergency, it can be kept away from the plug acting on the handle. Before using the machine, the operator must know the safety system use, in such a way as in case of necessity it can act automatically. Never re-establish the system before the problem has been resolved, if necessary helped by a technician.

In case of emergency, kept away



PICTURE 3.1

3.7. RESIDUAL DANGERS

FIORENTINI has analyzed any kind of danger in using the machine to eliminate, or at less to reduce, accidents to operators, since the projecting phase. To reduce these risks we provided to inform the operators through signals and showing means and procedures to be adopted.

CRUSHING DANGERS

Crushing risks may come from:

- regulation of scrubbing brushes;
- · regulation of the squeegee;

When regulating the brushes and the squeegee we recommend to be sure that the ignition key is kept away from the control board to avoid casual switching.

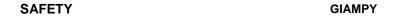
Special pictograms are placed on brushes covers and on the back side of the tank.

OVERTURNING DANGERS

Overturning dangers may happen:

 during the normal use of the machine when exceeding sloping limits as specified in the manual and if using the machine to clean disconnected surfaces or with holes and high depressions.

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Don't use the machine to clean up areas exceeding 5% of sloping or presenting holes, and depressions which might compromise the stability of the machine.



FIORENTINI decline every responsibility for accidents to persons or things using the machine on surfaces that can compromise the stability of the same one. The operator has to follow recommendations about areas conditions on which he has to work.

3.8. SAFETY SIGNALS

Safety signals include:

| DANGERS | | Signals are triangular shaped with black colored in yellow field pictograms |
|--------------|---|--|
| PROHIBITIONS | 0 | Signals are circular shaped with black colored in white field red-crossed pictograms |

| What is it ? | This signal shows the prohibition to remove covers in which members are still moving. | | |
|--------------|---|--|--|
| What to do? | In phase of installation/maintenance we recommend, to remove mobile protections, to disconnect the ignition key from the control board. When the machine is in action not enter with body's parts and make sure that all covers are well fixed. | | |



| ^/ | What is it ? | This signal shows crushing dangers due to moving parts of the machine. |
|----|--------------|---|
| | What to do? | In phase of installation/maintenance we recommend to keep away the ignition key from the control board. |



In case of wear and tear, the purchaser must re-establish similar signals of danger. It's absolutely forbidden to keep out or to temper with these signals.

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SAFETY GIAMPY



What is it?

This signal shows explosion dangers due to the hydrogen released in charging the accumulators.

What to do?

During the battery charging we recommend to place the machine in a suction chimney or in an airy zone, far from heat sources and corrosive environments.

Locking lever for recovery tank





What is it?

This signal shows crushing danger due to a casual overturning of the battery protection

What to do ?

During the battery charging, please check that the locking lever of the recovery tank is duly hooked.



In case of wear and tear, the purchaser must re-establish similar signals of danger. It's absolutely forbidden to keep out or to temper with these signals.

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4. INSTRUCTIONS FOR STARTING AND USE

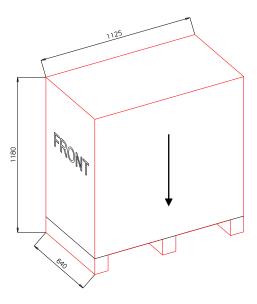
4.1. TRANSPORT AND HANDLING

This autoscrubber is delivered to the purchaser in a special package, which features are well showed in picture 4.1, completely assembled. The package shows the barycentre position indicated with a black arrow. The forks of the truck or transpallet must be placed in such a way as the black arrow is at the center of them. The package has to be moved carefully. We recommend not to place packages one on the top of the other. As agreed with purchaser, the machine can be delivered without package, placed on a bed and blocked with bands.



At the moment of delivery we suggest to check the machine about accidental damages while transported and about have received all material indicated in coverings; in case of damages or missing parts, please inform the forwarder and the manufacturer that will soon as possible provide to the mishap.

Missing particular agreements, the goods travel at the purchaser's risk.



PICTURE 4.1

Handling of the machine has to be carried out with suitable lifting apparatus, as showed below. Take always care about the elevator forks, or the sling bands, that have to be placed with the black arrow, as drawn on the package, has to be put at the center of the lifting system. Anchorage or slinging points are prepared for having a good balanced position when lifting up the machine.

| PACKAGE TYPE | LIFTING APPARATUS | PIC. |
|-----------------------------|---------------------|--------|
| Cartoon or plywood with bed | Elevator with forks | N° 4.2 |

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Bands to be used must be suitable for the effective loading. Operations must be executed slowly avoiding oscillations or upsetting. The incorrect way of operatinG can damage the support or expose to dangers.



Machine dimensions and mass are explained at point 2.3. We strongly recommend authorized personnel for lifting operations.

LOADING DIAGRAM



PICTURE N° 4.2

4.2. STORAGE

In case the machine is not immediately installed, it has to be preserved in a dry and closed Place to grant a perfect conservation and efficiency of its body parts. Humidity must be lesser than 80 % and storage temperature between 3° C \leq t \leq + 45 $^{\circ}$ C.

4.3. INSTRUCTIONS TO UNPACK THE MACHINE

- > Cut off the bands being careful of the elastic reversion
- > Take away on the base of the cartoon the clips that keep it together with the pallet.
- Where plywood is take away the clips at both sides and at the base of each panel.
- > Cut off the clips that stop the machine.
- Put the machine at ground level.

4.4 HANDLE THE UNPACKED MACHINE

- Check the machine and mount the batteries if not installed.
- To displace it, after use, take off the battery cables, the brushes and the squeegee; to displace it through a longer space pack the machine once again in its own package.

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4.5. INSTALLATION



The installation must be done by authorized personnel after reading this manual.

4.5.1 BATTERIES INSTALLATION

To install the batteries follow the instructions as below:

- Raise up the battery-cover chain guard (picture 4.4);
- install the batteries in the suitable slot as showed in picture 4.4 being sure that no breakings are in the battery cases;
- never add distilled water after charging the batteries;
- clean up the surfaces needing to be connected;
- > Battery handling is made easier by handles on both sides.



Locking lever for recovery tank

PICTURE N° 4.4

4.5.2 CHARGER INSTALLATION

The battery charging must be done, as previously reminded, predisposing a suitable suction system of gases coming out during charging. Alternatively it must be done in a dry and airy place, far from heat sources and corrosive environments.

Protect the electrical system with a delayed switch or with a more capacity fuse than the charger. Follow the polarity instructions for the battery inlet.

Verify that the battery plug is connected



PICTURE N° 4.5

This machine is equipped with a charger placed inside the battery cover, therefore to charge the batteries follow the instructions and connect directly the cable to the system.



To install the battery charger:

In the rear part of the machine, there is a room for the battery charger. To reach it, you have to remove the screws which are fixing the cover to the electric system and take it away.

Remove the cover to reach the battery charger



PICTURE N° 4.5.1



Connect the battery charger to the socket to recharge the batteries.

PICTURE N° 4.5.2



PICTURE N° 4.5.3

Characteristics of the CHARGER

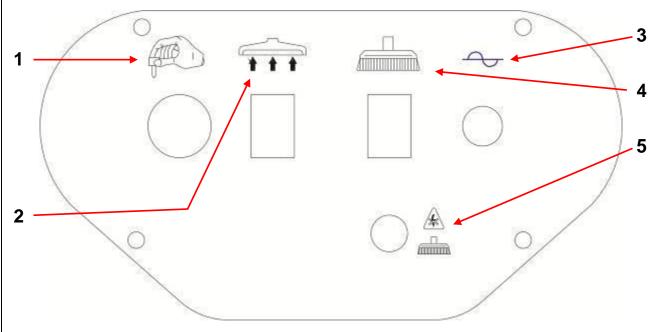
24V 12A HIGH FREQUENCY GEL - ACID



4.6. CONTROL DEVICES

4.6.1. CONTROL BRIDGE (ELECTRIC VERSION)

The control bridge is set up with some interrupters that start/stop every function of the machine. Every interrupters has a pictogram showing, without errors, related functions. In picture 4.6 is showed the control bridge, while the schedule shows every switch functioning.



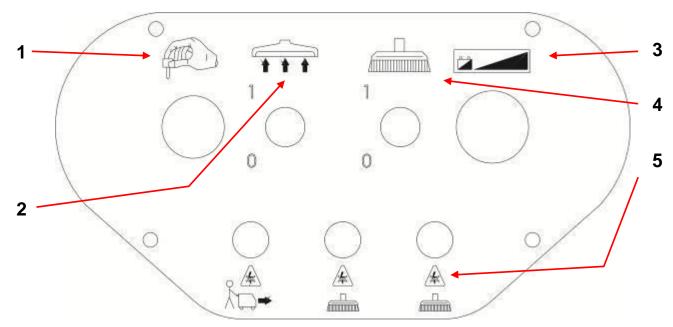
PICTURE N° 4.6

| POS. | SWITCH | FUNCTION |
|------|--------|-------------------------|
| 1 | | KEY SWITCH |
| 2 | | SUCTION ON |
| 3 | 4 | RED LIGHT ON MACHINE |
| 4 | | SWEEPING SYSTEM SWITCH |
| 5 | | BRUSHES OVERLOAD CUTOUT |

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4.6.2. CONTROL BRIDGE (BATTERY VERSION)

The control bridge is set up with some interrupters that start/stop every function of the machine. Every interrupters has a pictogram showing, without errors, related functions. In picture 4.6.1 is showed the control bridge, while the schedule shows every switch functioning.



PICTURE N° 4.6.1

| POS. | SWITCH | FUNCTION |
|------|--------------|--------------------------|
| 1 | | KEY SWITCH |
| 2 | * * * | SUCTION ON |
| 3 | | BATTERY CHARGE INDICATOR |
| 4 | | SWEEPING SYSTEM SWITCH |
| 5 | | BRUSHES OVERLOAD CUTOUT |

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MAINTENANCE GIAMPY

4.7. FUNCTIONING

The scrubbing operation is too delicate being necessary, by experience, to value correctly the kind of brush to be used, the necessity or not for a double scrubbing action, the better choice of the detergent. if floors are too dirty, we recommend a double scrubbing action. During this first step the squeegee is up and brushes are in operating position. Start up the brushes, for a first wiping, in a small area. The solution will be left on the floor to dissolve dirt, performing its solvent function until it's completely collected by the second wiping. Of course this last one has to be done with the brushes down and the squeegee keeping contact with the floor.

Scrubbing operation has to be executed by acting on the starting switch for brushes motor, pulling down the brushes with the pedal, and actionning the lever of water regulation. Water dosage must wet all the surface. A single scrubbing action involves to put down the squeegee, then switch on the driving lever. The squeegee is put down by the lever. The suction motor will run by the interrupter. After the scrubbing and drying operation, first turn off the water, then the brush interrupter ,raise the brush concluding the drying operation. Finally the suction motor has to be switched off .



Before proceeding with any kind of operation, check out that protections are still firmly fixed.

4.7.1 STARTING AND MACHINE PREPARATION

If the autoscrubber is connected to the system for charging the batteries is necessary to take off the charger plug; make the water loading lifting up the carter (see also particular 1 in picture 4.7)

The machine can be now started up rotating the main ignition key. So let's start the scrubbing operation



PICTURE N° 4.7

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MAINTENANCE GIAMPY

4.7.2 CHOISE OF DETERGENT

For a good floor cleaning is necessary to use the right detergent, not aggressive and so damaging. It's suitable to use a controlled foam detergent, or an additive antifoam, to avoid damages to the suction motor, whether not possible to get these products, to avoid foam, it's easy to use some normal vinegar, pouring a quantity of 50 cc inside the recovery tank before scrubbing.



Be sure that detergent is suitable for the surface to clean up. Fiorentini S.r.l. is not responsible for damages caused by detergents too aggressive or anyway unsuitable for all kind of surfaces.

4.7.3 REGULATION OF DRIVING POSITION

Regulating systems owned by the machine, allow a good driving position choice based on the operator height. Here they are:

- Unscrew the knobs for the regulation of the inclination of the driving handle (detail 1 picture 4.8)
- Regulate the inclination of the handle as needed.
- Screw again the knobs.



PICTURE N° 4.8

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MAN PROPERTY ALSO ALL COM

4.7.4 RUDDER PEDALS FUNCTIONS

This machine is equipped with different levers and pedals:

rraction drive lever (part 1 Figure 4.9). The machine has a red switch for forward and reverse lid placed on top of the handle, before you pull the lever to pay attention to the positioning of the switch.



The lifting brush lever activates all the moving parts of the machine. When switched on, with the on board operator, brushes start to move and the suction motor activated by the control bridge.

- Lifting up squeegee lever (particular 2 picture 4.9). Pulling up this one and putting it to its place is possible to control the squeegee.
- ➤ Water floating regulation (particular 3 picture 4.9). Pulling up or down the lever to get a good regulation of the water.
- ➢ lifting pedal flat brushes (particular 4 Figure 4.9). To raise the pot off the ground press the pedal until it clicks into place at the headquarters of the plate, to lower it back, press the pedal and release it from the plate.
- brake lever (particular 5 Figure 4.9). Pulling the lever toward you if the car brakes, dropping the machine will be able to 'move freely.
- parking brake (part 6 Figure 4.9). pulling the small lever towards you in red along with the brake lever applies the brake. To remove it do a little pressure on the red lever.



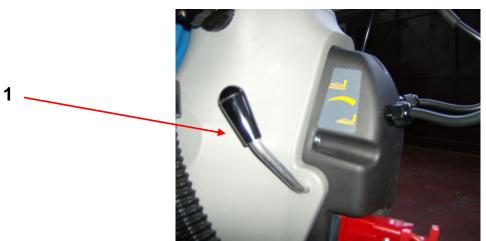
PICTURE N° 4.9

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MAINTENANCE GIAMPY

4.7.5 REGULATION OF THE DETERGENT SOLUTION

The quantity of detergent solution during the scrubbing operation can be easily regulated by a lever placed in the back-left side of the machine (picture 4.10 particular 1)



PICTURE N° 4.10



N.B.: if it is necessary to set the regulation of water quantity make sure that the ignition key is disconnected to avoid casual starting.

4.7.6 SQUEEGEE ADJUSTEMENT

To guarantee a perfect drying, is essential that the squeegee is perfectly regulated.

This squeegee, is well done to pick up the water to the suction pipe, but is too sensitive face to the ground level. To regulate the squeegee, is necessary:

- Remove the ignition key to avoid casual starting.
- To regulate the parallelism of the squeegee with the ground it needs to act on its own handles (detail1 picture 4.11).
- To regulate the slope of the squeegee it needs to act on the knob (detail 2 picture 4.11) which allows to increase or lower the edge between squeegee and floor.



PICTURE N° 4.11



It's very important that the two wheels are well set to keep the blades of the squeegee in parallel and well placed to the ground.

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MAINTENANCE GIAMPY

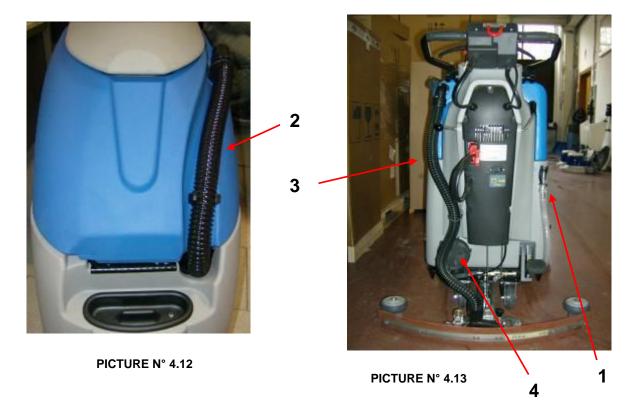
4.7.7 WATER DISCHARGE

This autoscrubber machine is equipped with two water discharge pipes (picture 4.15):

- solution tank drain hose (particular 1 picture 4.13)
- suction pipe (particular 2 picture 4.12).

Moreover the machine is complete with a flexible pipe (detail 3 picture 4.13) which sucks the dirty water and a porthole cleaning inspection of the tank solution (detail 4.13).

To empty the water from the pipes put the machine on a drain well, disconnect the pipe to discharge and open the rubber cap on the top of it.



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4.7.8 BRUSH REPLACEMENT

- With one brush version

To substitute the brushes do as it follows:

- > Remove the ignition key to avoid casual starting.
- Empty both recoveries of the machine.
- > Lift up the machine.
- Release the brushes pulling them to the bottom.
- To insert a new brush is necessary to place it underneath the plate, then pushing it on. (detail 1 picture 4.14).



PICTURE N° 4.14

- Two brushes version

To substitute the brushes do as it follows:

- > Remove the ignition key to avoid casual startings.
- Remove the protection pulling it out (particular 1 picture 4.15).
- > Release the brushes pulling them to the bottom.
- > to insert a new brush, is necessari to centre the fitting flange inside the hexagon of the brushes with a two hands pression to the top (particular 2 picture 4.16).
- After have fit the brushes, reinsert the protection pushing to the machine.



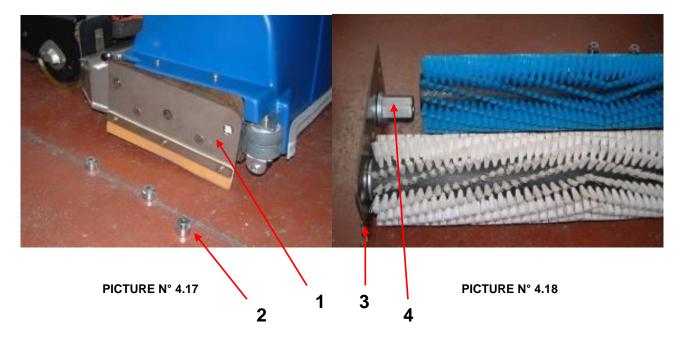
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Cylindrical brushes version

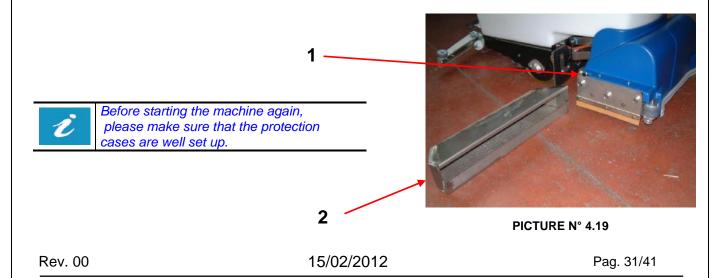
The operator has to follow the instructions below to replace the brushes:

- > Take the ignition key away from the dashboard in order to avoid a casual starting of the machine;
- Remove the protective cover (detail 1 in picture 4.17) plate by unscrewing the three screws detail 2 in picture 4.17).
- > Disconnect and remove the cylindrical brushes
- > Setting a new brush up: the brushes hexagon has to be concentric to the attachment flange (detail 4 in picture nr. 4.18). By means of a slight pressure upwards set the new brush up.
- > Set the brushes cases up again after having replaced the brushes.



To proceed to clean the waste tray must operate in the following way:

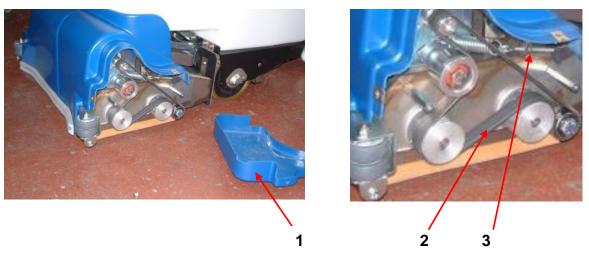
- Take the ignition key away from the dashboard in order to avoid a casual starting of the machine;
- Lift the hook of the recovery tank in order to unloose the tank (see detail 1 in picture 4.19);
- Pull the recovery tank off (see detail 2 in picture 4.19);
- Empty and clean the recovery tank;
- Do now the opposite instructions.





BRUSHES BELT REGULATION AND REPLACEMENT

- > Take the ignition key away from the dashboard in order to avoid a casual starting of the machine:
- > Uscrew the four screws and remove the plastic case (detail 1 in picture 4.20);
- > Tighten the nut of the belt (detail 2 in picture 4.20) fixed on the eye in order to increase the spring strength which regulates the belt (see detail 3 in picture 4.20);
- Unloose the nut mentioned above in order to remove and replace the brushes belt;
- Tighten the nut so that the brushes belt has the same strenght as before;
- Set the brushes case up again by means of the four screws.



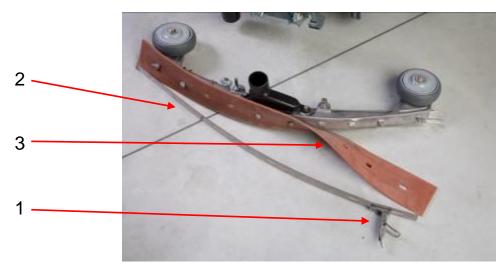
PICTURES N° 4.20

4.7.9 SQUEEGEE BLADES REPLACEMENT

The squeegee blades (picture 4.21) have to be replaced as the touching edge is worn; actually the perfection Of the edge is essential for a perfect drying.

To replace the blades do as it follows:

- Take off the squeegee and put it on a bench.
- Take away the inside and outside bolts (detail 1 picture 4.21), the steel strips (detail 2 picture) and remove worn blades (detail 3 picture).
- Insert the new ones and the strips fitting the bolts, then the squeegee.



PICTURE N° 4.21

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4.7.10 BRUSH PRESSURE REGULATION

When the machine is scrubbing, it is possible to adjust the brush height from the ground, in order to vary its pressure on the floor.

Rotating the knob anti-clockwise (particular 1 fig. 4.22) the pressure increases. Rotating it clockwise the pressure decreases.



PICTURE N° 4.22

4.7.11 Electric cable/battery machine operating

On the electric version/battery model, the machine works with two different tensions alternatively, the tension from the electricity net or 24V. In order to use the machine with the electricity grid, it is necessary to set the feeder inside the recovery tank by making the connections shown in the picture here below and connecting the cable for the general feeding. If the 24V is requested, it is necessary to remove the feeder and to install two 6V batteries connected in series with the proper cable (see fig.4.16 parts.1).



PICTURE N° 4.16

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5. MAINTENANCE

5.1. MAINTENANCE TABLE

To keep a good efficiency of this autoscrubber machine and grant a good reliability during the warranty period, is essential to keep a periodic maintenance using the table reported in this manual.



- Authorized personnel only can service this machine, particularly for electrical and electromechanical parts using suitable tools and equipment for every intervention
- For assistance and spare parts address exclusively to Fiorentini S.r.l.

| OPERATIONS TO BE MADE | INTERVENTION MODALITY | FREQUENCY |
|-----------------------|---|----------------|
| Cleaning p | Clean up the recovery tank and suction motor filter Never use corrosives. Don't use water jets. | Every day |
| | Check suction and squeegee pipes cleaning up | Weekly |
| | Check the state of the suction blades and of the squeegee rubber Check battery water level | Every 15 days |
| | Check solution tank filter | Every month |
| | Check brake system | Every 3 months |
| Controls | Check battery cables fixing up | Every 6 months |
| | Check the state of each motor brushes | Every year |
| | Check safety devicesCheck electric system | Every year |

5.2 BATTERY MAINTENANCE

Control of battery charge can be easily made when the operator is working with the machine through the indicator placed on the control bridge. It shows the following information:

- On green : the battery is charged
- On yellow : the battery is half-charged
- On red : the battery is flat



During charging don't let the battery box opened

- Don't use fire and no smoke nearby the batteries
- Take care to the liquid because corrosive
- > Don't sparkle close to the batteries
- Battery gas is explosive
- Never invert the polarity

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5.2.1 HYDROMETRY

Hydrometry can be made with batteries under charge with a densimeter. Do as it follows:

- > Put the gun densimeter and take a quantity of electrolyte sufficient to push up the floating;
- Keep care the top of it doesn't touch the rubber or the glass walls.
- For a measure of density, after filling up with distilled water, density has to be uniform in the box.

5.2.2 WATER FILLING UP

> Put distilled water in each cell of the battery before charging the batteries to take the liquid at 6 mm over the plates.

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This operation has to be made every time the level goes down, but never over a week between two filling up.

5.2.3 CHARGING LIMITS

It's not necessary to charge the battery if density, after a working day, is underneath 1,24 (28 Bè). The best recommended temperature is 45°C. If the electrolyte temperature goes up of 10/12°C inside facing to room temperature, it can be overcharged without depending from the normal use.

5.2.4 OFF DUTY OR INACTIVE BATTERIES

While inactive, the batteries can go flat by themselves. If battery is not frequently used, it may occurs to do the following operations:

- > Once in a month place it under charge, to a voltage indicated as "final", until all elements are full of gas and is possible to read tension and specific weight for 3-4 hours about;
- It's necessary to do it even when measurements of specific weight show high values. If battery stays inactive longer it has to be preserved in a dry place.

5.2.5 BATTERIES DISPOSAL

Exhausted batteries are considered toxical waste. They have to be disposed in storages under specific authorization. In case of necessity, a "temporary storage" can be effected, by laws in force, mainly:

- Having a special authorization for it;
- Placing them in plastic boxes with higher capacity than the volume of the battery electrolyte, or anyhow without possible water infiltrations.

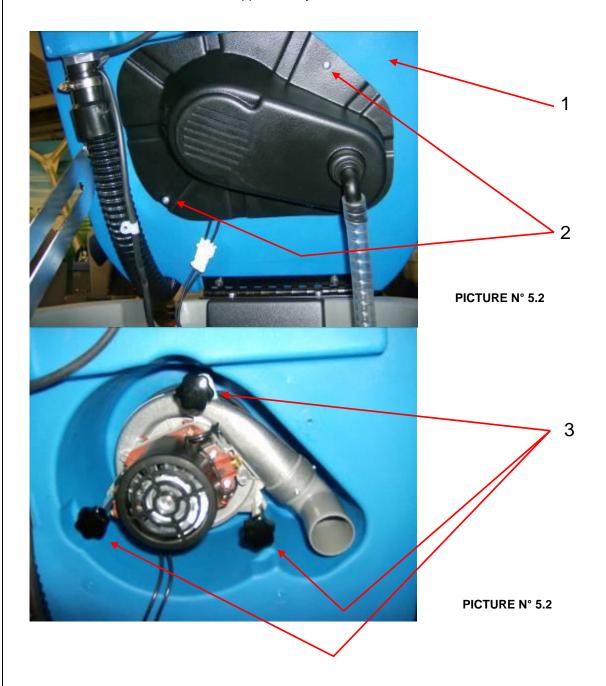
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5.3 MAINTENANCE OF SUCTION MOTOR

The suction motor must be efficient and cleaned. Every six months check the brushes and if necessary replace them . Maintenance of suction motor needs the following operations :

- eeeping away the key from the dashboard release the motor hooks and disconnect the plug.
- > epty the recovery tank.
- lifting up the recovery tank (detail 1picture 5.1)
- unscrew the screws holding the cover to the tank (detail 2 picture 5.1)
- unscrew the knobs that secure the suction motor to the recovery tank (detail 3 picture 5.2)
- > check the suction rotor from the front opening of the motor.
- To reassemble do the opposite way.



5.4 ELECTRICAL EQUIPMENT CHECKING

The electrical system must be checked every two years. Possible defects, such as connections off and burnt cables, must be suddenly replaced.



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All intervention on the electrical system must be done by a technician.

All maintenance or repair out of the ordinary maintenance must be done with personnel authorized only by FIORENTINI.

5.5 TABLE ABOUT TESTS TO BE CARRIED OUT

| | RECURRENCE | OPERATOR |
|------------------------|------------|-------------------------|
| CONTROLS | | |
| SAFETY DISPOSITIVES | 2 YEARS | PROFESSIONAL TECHNICIAN |
| ELECTRICAL SYSTEM | 2 YEARS | FIORENTINI TECHNICIAN |
| BRAKING SYSTEM | 3 MONTHS | PROFESSIONAL TECHNICIAN |
| COMPLETE CHECKUP | 5 YEARS | FIORENTINI TECHNICIAN |
| <u>MAINTENANCE</u> | | |
| RECOVERY TANK CLEANING | DAILY | OPERATOR |
| SUCTION MOTOR FILTER | DAILY | OPERATOR |
| SOLUTION TANK FILTER | MONTHLY | OPERATOR |
| SUCTION PIPES CLEANING | WEEKLY | OPERATOR |
| SQUEEGEE CLEANING | WEEKLY | OPERATOR |
| BLADES LEVEL CONTROL | WEEKLY | OPERATOR |
| WATER BATTERY LEVEL | WEEKLY | OPERATOR |
| BATTERY CABLES CONTROL | 6 MONTHS | PROFESSIONAL TECHNICIAN |
| MOTOR BRUSHES CONTROL | EVERY YEAR | PROFESSIONAL TECHNICIAN |

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MAINTENANCE GIAMPY

5.6. MAINTENANCE REGISTER

| DATE | MAINTENANCE | KIND OF INTERVENTION/MARKS | SIGNATURE |
|------|-------------|----------------------------|-----------|
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6. TECHNICAL ASSISTENCE

6.1. SERVICING ADDRESSES

For warranty assistance and/or request of maintenance and repair, or information, customer can apply to the Technical Service of FIORENTINI S.p.A. as follows:

ING. O. FIORENTINI S.p.A.

"THE BEST IN FLOOR MACHINES"

FILIALI:

20132 MILANO - Fax. 02/2592779

Via Palmanova 211/a – Tel. 02/27207783 - 2564810

00012 Guidonia Montecelio (ROMA) – Fax. (0774)353419 - 353314

Via B. Pontecorvo 20 - Tel. (0774)357184 - 353015

STABILIMENTO:

50030 PIANCALDOLI (FI) - Fax. 055/817144

Loc. Rombola – Tel. 055/8173610

Many technical problems can easily find a solution; therefore, before contacting our Customer Service, we advice to read carefully this manual.

Where consulting the Service, it occurs to clearly specify kind and modalities of problem, to provide with the in a suitable way.

6.2 VERBAL CLAIM

Fiorentini S.p.A, has a big consideration of customer needing, that's why we think we can always get precious information to improve our products, placing at customer's disposal a statement to point out possible defects using our autoscrubber Giampy.



TECHNICAL ASSISTENCE

GIAMPY

| Form filled by: | |
|--|--|
| Company: | |
| Name of compiler: | |
| Position in the firm: | |
| Date: | Signature: |
| Description of the machine: | |
| Machine: | Model: |
| Purchase date: | Chassis: |
| Machine under warranty: | NO Hours of work : |
| Point out working environment of the machine : | |
| Description of defect: | |
| Code of defective particular: | Name: |
| Typology of defect: | Short description of defect: |
| ☐ Defective mechanical component | |
| ☐ Incorrect functioning | |
| ☐ Electrical system failure | |
| Engine failure | |
| Missing component | |
| Excessive noisness | |
| Water leakage | |
| Other | |
| Customer's notes: | |
| | |
| Please point out notes and/or suggestions on p | products / services of Ing. O. Fiorentini S.p.A. |
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| | |

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| Mat. n. Serial no. Nr. de serie | |
|---|--|
| Data di spedizione Date of shipment Date de spedition | |

Distributed by:

ING. O. FIORENTINI S.p.A.

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