

Registered trademark

OPERATOR'S MANUAL

mobilift® M6 P H Y S I O

Please read the complete manual carefully before using your equipment

Keep this manual for future reference as well as the installation manual separatly.

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Congratulations on the purchase of your Mobilift M6 PHYSIO. This model represents the fruits of numerous years of experience in the design and production of connective tissue treatment systems. You will experience fully the technical perfection and reliability of LPG Systems, which is the leader in this field.

This operator's manual contains the operating description, basic maintenance instructions to be performed periodically and the safety instructions.

Your device is intended for use in the treatment of connective tissue. It should be used only by a professional who has attended the manufacturer's training provided by LPG Systems or an approved provider, if you live outside of France.

If you have any doubts whatsoever concerning the operation or maintenance of your equipment, please do not hesitate to contact LPG via the Customer Service Department or your distributor.

→ PACKAGE CONTENTS

- → One Mobilift M6 PHYSIO unit
- → One main Ergolift head and his hose
- → Two lift treatment chambers (TML20 and TML10)
- → TR50 Head
- → One set of auxiliary heads (TR15 and TR30)
- → One set of micro-nozzles/micro-heads
- → One hose
- → One electrical power cord
- → A packaging and installation quick guide
- → One POS marketing set

⊿ ATTENTION

The manufacturer reserves the right to amend the product technical specifications without prior notice. Any reproduction – even in part – is prohibited. All the illustrations in this operator's manual are non-binding.

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MOBILIFT® M6 PHYSIO

INTENDED USE

The Mobilift M6 PHYSIO is intended for the following therapeutic purposes:

- 1. Reduction of secondary lymphoedema of the arm (SLA) post mastectomy
- Improvement of secondary lymphoedema 2.
- 3. Improvement of lymphatic circulation in the treated area
- Relieves minor muscle aches and pains 4.
- 5 Relieves muscle spasm
- 6. Temporary improvement in local blood circulation
- 7. Temporarily relieves the minor muscular pain associated with DOMS(Delayed Onset Muscle Soreness)
- Improves local circulation during burn rehabilitation 8.
- Increase lymphatic and blood circulation (lymphatic drainage and blood 9. microcirculation)
- 10. Improvement of skin quality, scars, fibrosis
- 11. Improvement of skin aging (wrinkles, finelines, skin sagging, fat infiltration, firmness, elasticity, complexion, eye bags)
- 12. Stimulation of fibroblasts (collagen, elastin, hyaluronic acid synthesis)

The device can be used in health clinics by specialists and physical therapists. It is an independent device that cannot be combined with other machines. It should only be used by professionals who have been specially trained by LPG Systems how to use it and is not suitable for use at home.

→ MOBILIFT® M6 PHYSIO (CONT'D)



→ CONTROL SCREEN



INFORMATION ABOUT THE TREATMENT

TOUCH SCREEN

TREATMENT CONTROL SETTINGS

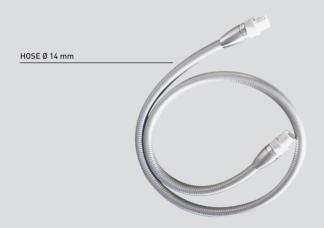
→ ERGOLIFT HEAD



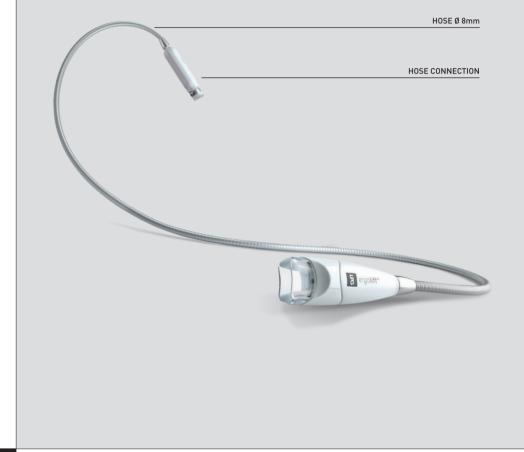
→ TR50 HEAD



→ ROLL HEAD HOSE



→ HOSE ERGOLIFT HEAD



→ IMPORTANT SAFETY INFORMATION

All safety precautions must be observed whilst using electrical equipment. Please read all safety notices and precautions prior to use of the equipment.

DANGER - TO MINIMISE THE RISK OF ELECTRICAL SHOCK:

- Always disconnect the equipment from the electrical supply outlet after use and before cleaning and maintenance.
- Check that the supply voltage of the unit indicated on the data plate complies with the mains voltage.
- The unit must be connected by the power cord' supplied to a grounded outlet in accordance with current electrical standards. Electrical adapters must not be used with this equipment.

→ WARNING

- TO MINIMISE THE RISK OF BURNS, FIRE, ELECTRICAL SHOCK OR INJURY

- The equipment must not be left unattended whilst connected to the electrical supply.
- Disconnect the unit from the electrical supply if it is not going to be used for a long period.
- Special attention is required whilst using the equipment with, or in the proximity of children or disabled persons.
- Never use the unit for purposes other than those recommended by LPG Systems. Only use the treatment heads supplied with your unit or those recommended by LPG.
- Never use the equipment if:
 - the electrical POWER CORD or outlet is damaged.
 - the equipment does not function correctly.
 - the equipment is damaged or has fallen or been dropped.
 - the equipment has been exposed to excessive humidity.

In such cases, return the equipment to an approved LPG service centre.

- Do not move the unit by pulling the electrical power cord.
- Fully unwind the electrical power cord and keep it away from warm surfaces.
- Never use the equipment if the ventilation ports are obstructed. Ensure that the ventilation ports are kept clear of dust or other contaminants.
- Do not allow solid debris, liquid or other foreign bodies to fall or be sucked into the unit, as these could cause damage.
- Never use the equipment on a dusty, uneven floor, or in a moist atmosphere.
- Never use the equipment in the presence of aerosols or oxygen.
- Before disconnecting the unit from the electrical supply, set all controls to the 'off' position and unplug the unit.
- It is prohibited to modify this equipment without prior authorisation from the manufacturer.

ATTENTION

1 Europe VIIG-H05VVF3G1,00-C13; Italy I/3/16-H05VVF3G1,00-C13; Switzerland 12G-H05VVF3G1,00-C13; UK BS13/13-H05VVF3G1,00-C13; Japan 498GJ-VCTF3X1,25-C13; USA, Canada, Mexico HG/TR-SJT3X18AWG-C13 (connect to Hospital grade receptacle in hospital environment)

→ PRECAUTIONS OF USE

ATTENTION: KEEP THESE INSTRUCTIONS

Your device should be used on clean, healthy skin. It is important to read and respect the following precautions and contraindications before using your device.

- Never touch the patient and the device's unprotected cables or connectors simultaneously.
- Never use the auxiliary adapter as a treatment head or allow it to come into direct contact with the skin.
- Only use treatment heads supplied with your unit or recommended by LPG.
- LPG Systems will not be liable for any inappropriate use of the equipment.
- With respect to treated tissue, some parameters may cause pain or tissue lesions.

- The operator must be particularly attentive to the sensations felt by the person undergoing treatment.
- The operator must ensure that the parameters (intensity, sequentiality, differential...) are always adapted to the cutaneous tissue being treated.
- Do not use the USB and ethernet connections during treatment.
- Do not operate the unit in unsuitable environmental conditions (see technical specifications).

→ CONTRA-INDICATIONS

- Do not treat open wounds, the eyes, intra-cavity areas, mucous membranes, the genitals or breasts.
- Do not treat a patient with an infectious disease, a growing tumour, a phlebitis, a wound, or an infected area.
- Do not treat a patient with skin cancer, a visible tumor, or other cancerous lesions.
 Consult with a doctor in cases where the patient has a case history of tumours or is in remission.
- Do not treat people with circulatory problems without first consulting their doctor.
- Do not treat any swollen or inflamed areas without seeking medical advice and without having had training in specific LPG techniques in this particular area.
- Stop treatment immediately if the patient experiences pain and consult a doctor.
- This device should not be used on skin rashes, herpes, inflamed or infected acne, or vitiligo.
- This device is not recommended for pregnant women. In the event of pregnancy, do not treat the lumbar-abdominal region. Consult with a doctor with regard to this treatment.

- Stop treatment immediately if the patient experiences pain and consult a doctor.
- Do not use if unexplained pain on the calf.

 Consult a doctor
- To avoid bruising, exercise caution when determining a patient's level of sensitivity and avoid use on patients taking anticoagulant drugs.
- For a more detailed list of the indications and contra-indications of Endermologie, please refer to the training manuals.
- As this list is not exhaustive, always seek out medical advice in the event of doubt.
- Because of the risk of interference, it is important that the professional ensures the patient is not equipped with a personal medical device such as a pacemaker. If this is the case, the professional should obtain details about the device in question to ensure that any interference will not affect the correct use of the equipment.

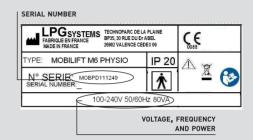
→ IDENTIFICATION RATING PLATE

Your unit is identified by a serial number shown on the rating plate.

The rating plate also shows the permitted supply voltage for the unit.

If you need to contact LPG Systems because of a technical problem, please indicate the serial number of your MOBILIFT M6 PHYSIO

This serial number provides information on the year and month of manufacture of your unit. etc.



The letter indicates the year the device was manufactured. Z=2009, A=2010, B=2011, etc. The two digits indicate the production month: 01=January; 02=February; 03=March; etc.

- This icon indicates that the unit was sold after August 13, 2006. In conformity with the 2002/96/CE directive, it cannot be thrown away with standard household waste but must be disposed of by means of recycling. When your device reaches the end of its useful life, it must be brought to an appropriate recycling center or returned to your dealer.By doing so, you help the environment by contributing to the conservation of natural resources and the protection of human health.
- This icon indicates that some specific warnings or precautions associated with this device are not on the label.
- This symbol means always consulttheaccompanying documents before using your device.
 - This symbol indicates the name and address of the manufacturer.

- This symbol means that your device has type BF applied parts which come into contact with the patient. These parts are electrically isolated from all of the device's other parts. These applied parts are: the treatment heads.
- This symbol means store the device somewhere protected from inclement weather.
- This symbol indicates temperature limits.
- This symbol indicates relative humidity limits.
- This symbol means « Danger: High Voltage »
- R This symbol means will use under prescription will (us only)

→ CLEANING THE UNIT

It is recommended that you clean your unit as often as possible, not only for reasons of hygiene and aesthetics but also because cleaning the unit will help keep it in a good state of repair and extend its useful life.

Using a moist sponge, clean the following sections:

- All the external hoods.
- Hoses.
- The electrical supply cable.

Using a cloth soaked with a small amount of alcohol-free domestic cleaning product, clean the following sections:

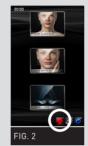
• Control screen and control panel.

→ REPLACING THE FILTER CARTRIDGES AND FOAM

Your device contains one filter cartridges.

These components guarantee the efficiency of your unit and prolongs its useful life. Ensure that they are changed as soon as the command screen displays one of these messages (fig 1-2):





ICON INDICATING A FILTER CHANGE IS REQUIRED (FIG. 2).

Access the 'filter change' menu as follows:

Select the 'maintenance' menu by pressing the icon indicated (fig. 3).

Select the 'filter' menu by pressing the icon indicated (fig. 4).

The 'filter change' screen indicates which filter requires to be changed (fig. 5).







→ REPLACING THE FILTER CARTRIDGES AND FOAM (CONT'D)

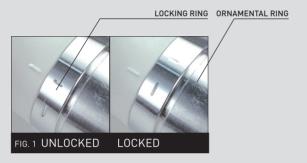
Replace the filter cartridge with a new one. (fig. 6)
Once the filter cartridge is replaced, the filter meter should be reset by pressing the icon indicated: (fig. 7).

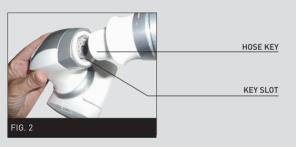




→ INSTRUCTIONS FOR CONNECTING/DISCONNECTING AUXILIARY HEADS AND NOZZLE

- To connect the hose, proceed as indicated below:
- Position the locking ring in the locked position (fig. 1).
- Position the end of the hose so that the hose key is lined-up with the key slot of the treatment head connection (fig. 2).
- Push the hose into the treatment head connection until it clicks into place (fig. 3).





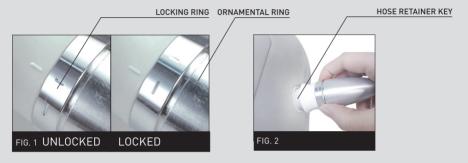


To disconnect the heads, follow the same steps in the reverse order:

- Position the locking ring in the unlocked position (fig. 3).
- Pull the locking ring towards the hose, carefully remove the hose by pulling it by the white ring (fig. 4).

→ INSTRUCTIONS FOR CONNECTING/DISCONNECTING THE HOSE

- . To connect the hose, proceed as indicated below:
- Position the locking ring in the locked position (fig. 1).
- Position the end of the hose so that the hose key is lined-up with the key slot of the treatment head connection (fig. 2).
- Push the hose into the treatment head connection until it clicks into place (fig. 3).



WHITE RING





- To disconnect the hose, follow the same steps in the reverse order:
- Unlock by turning the locking ring (fig. 3).
- Lift the locking ring, then remove the hose gently by pulling on the white ring (fig. 4).

→ TRANSPORT/MOVING

When moving your Mobilift M6 PHYSIO, you should:

- Remove the accessories holder (fig. 1).
- Carry the device by the handle (fig. 2).





→ REPLACING THE POWER CORD

If the power cord of your device is damaged, please contact LPG Systems Customer Service for a replacement.

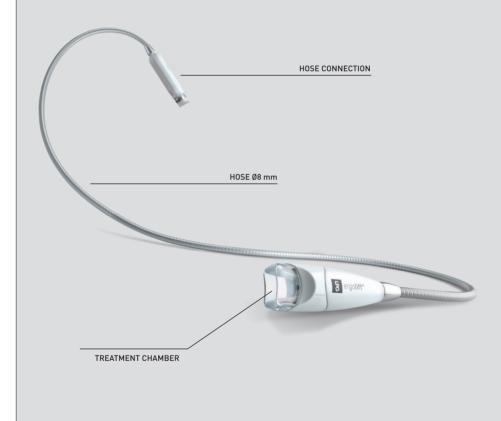
LPG Systems Customer Service: +33 (0)4 75 78 69 89

→ MAINTENANCE LOG SHEET

- Replacing flaps: once the flaps no longer treat the skin properly, they must be replaced. They should be replaced after every 20 hours.
- A personal Endermolift Kit for use by the patient is available for sale.

DATE	NO. OF HOURS	OPERATIONS PERFORMED

→ ERGOLIFT HEAD DESCRIPTION



→ TREATMENT CHAMBER



Treatment chamber TML20 removable flap **Flap TML 20**



Treatment chamber TML10 removable flap **Flap TML 10**

Only the TML20 and TML10 treatment chambers can be connected to the Ergolift head. They can be connected and disconnected by a simple push-pull action.





→ CLEANING THE ERGOLIFT HEAD AND TREATMENT CHAMBERS

For reasons of hygiene, the treatment heads should be cleaned after each use, using antiseptic wipes impregnated with a bactericidal and fungicidal solution. Special attention must be given to the cleanliness of the parts that are in contact with the patient.

Before each use, clean the flap and treatment chamber:

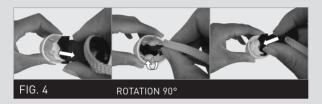
- 1. Disconnect the Ergolift head treatment chamber. (fig. 1)
- 2. Remove the flap thanks to the dedicated tool. (fig.2)
- 3. Thoroughly clean the treatment chamber, the flap and the tool for at least one minute with the wipes as describe here below. (fig.3)
- 4. Put the flap back in the treament chamber by following the same steps in the reverse order (fig.4)





→ CLEANING THE ERGOLIFT HEAD AND TREATMENT CHAMBERS (CONT'D)





→ DISINFECTING THE TREATMENT CHAMBERS

The Ergolift head is in direct contact with patient's skin. Under certain specific applications, it needs to be disinfected after each use:

- 1. Follow the cleaning procedure described above.
- 2. Soak the flap and treatment chamber in an OPA disinfectant for 12 minutes at 20° C, as recommended on the disinfectant packaging.
- 3. Carefully rinse the flap and the treatment chamber with sterile or drinking water for at least 1 minute using a large volume of water (approximately 8 liters). Repeat twice for a total of 3 rinses.
- 4. Dry the treatment chamber and flap.
- **5.** Clean the storage drawer with antiseptic wipes, then place the treatment chamber and flap in it.

7 ATTENTION

The use of aggressive products, such as acetone, trichloroethylene, or alcohol at 90°, and abrasive sponges, ultrasound or UV lamps is strictly prohibited. All cleaned and/or disinfected heads should be placed in the storage drawer to avoid any confusion. Use a disinfectant whose active ingredient is ortho-phthalaldehyde (OPA). Before using the disinfectant, read and follow the recommendations, contraindications, and warnings associated with this product. Refer to the instructions for using this solution. All the procedures described in this section must be carried out with the machine turned off and the power cord unplugged.

→ DESCRIPTION OF THE TR50 HEAD



→ DESCRIPTION OF THE TR50 HEAD (CONT'D)

Locking the rollers:

The rollers on the TR50 can be locked simply by pressing the appropriate buttons, as shown in the photos:











Reversing the Roller Direction:

The direction of the rollers reverses each time the trigger is pressed.

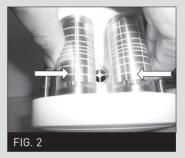
→ CLEANING THE TR50 HEAD

For reasons of hygiene, the treatment heads should be cleaned after each use, using antiseptic wipes impregnated with a bactericidal and fungicidal solution.

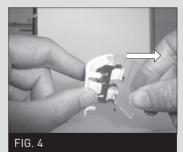
Special attention must be given to the cleanliness of the parts that are in contact with the patient.

- 1. Remove the sealing flaps as shown in the photos below (fig. 1 to 4).
- 2. Thoroughly clean for at least 1 minute using LPG wipes soaked in a bactericide and fungicide solution:
 - a) Flaps and their housing (fig. 5 and 6)
 - b) The casing on both sides of the rollers (turn the head over, rotate the rollers manually to clean the entire surface) (fig. 7 to 10)
 - c) The sabot
- 3. Reattach the sealing flaps.
- 4. Clean the storage drawer using LPG wipes, then place the head in it.







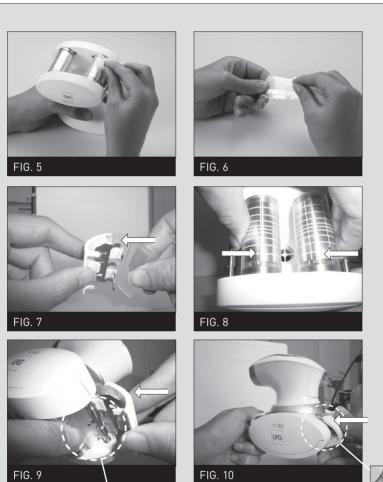


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7 ATTENTION

The use of aggressive products, such as acetone, trichloroethylene, or alcohol at 90°, and abrasive sponges, ultrasound or UV lamps is strictly prohibited. All the procedures described in this section must be carried out with the machine turned off and the power cord unplugged.

→ CLEANING THE TR50 HEAD (CONT'D)





→ THE AUXILIARY HEADS, MICRO-HEADS AND MICRO-NOZZLES

DESCRIPTION OF HEADS



→ CLEANING THE AUXILIARY HEADS, MICRO-HEADS AND MICRO-NOZZLES

- **1.** Disconnect the auxiliary head from the adapter.
- 2. Remove the two rollers from the head for effective and rapid cleaning (fig. 1 2).
- **3.** For micro-heads and micro-nozzle, use the provided tool (fig 3 à 4).
- 4. Thoroughly clean for at least 1 minute the rollers, seal, treatment chamber, micro-heads, disassembly tool, and micro-nozzles with LPG wipes soaked in a bactericide and fungicide solution (fig. 5 and 6).
- **5.** Refit the rollers and check they spin freely.
- **6.** Clean the storage drawer using LPG wipes, then place the heads in it.
- **7.** Clean the storage drawer using LPG wipes, then place the heads in it.













ATTENTION

The use of aggressive products, such as acetone, trichloroethylene, or alcohol at 90°, and abrasive sponges, ultrasound or UV lamps is strictly prohibited. All the procedures described in this section must be carried out with the machine turned off and the power cord unplugged.

→ DISINFECTING THE AUXILIARY HEADS

Unlike treatment head TR50, Non-motorized treatment heads (auxiliary heads, micro-nozzles, and micro-heads) can be used directly on the skin in specific cases. In these cases, the heads need to be disinfected after each use

- 1. Use the cleaning procedure described above.
- Soak the rollers, micro-heads, disassembly tool, and micro-nozzles in a disinfectant for 12 minutes at 20° C, as recommend on the disinfectant packaging.
- **3.** Carefully rinse the flap and the treatment chamber with sterile or drinking water for at least 1 minute using a large volume of water (approximately 8 liters). Repeat twice for a total of 3 rinses. Dry the parts.

⊿ ATTENTION

The use of aggressive products, such as acetone, trichloroethylene, or alcohol at 90°, and abrasive sponges, ultrasound or UV lamps is strictly prohibited. All cleaned and/or disinfected heads should be placed in the storage drawer to avoid any confusion. Use a disinfectant whose active ingredient is ortho-phthalaldehyde (OPA). Before using the disinfectant, read and follow the recommendations, contraindications, and warnings associated with this product. Refer to the instructions for using this solution. All the procedures described in this section must be carried out with the machine turned off and the power cord unplugged.

→ WHAT IF I'VE PROBLEM?

If your unit is not working properly, proceed with the following checks before calling Customer Services:

- Is the unit properly connected to a mains plug?
- Is the mains plug live?
- Is the ON switch lit up?
- Are the filter cartridges clean and correctly placed?
- Is the hose properly connected?
- •Is the hose clogged?
- Are the treatment chamber and flaps properly connected?

Once these checks have been carried out and if the malfunction persists, please contact Customer Services of LPG Systems or the nearest authorized dealer, indicating the model of your unit and its serial number.

LPG Systems Customer Service:

+33 (0)4 75 78 69 89

→ TECHNICAL SPECIFICATIONS

Dimensions; length x width x height: Net weight:	
Maximum set depression:	
Cooling:	
Protection index:	IP20
Electrical protection class:	
Operating temperature:	+10°C to +30°C
Storage temperature:	20°C to +70°C
Electrical features:	100-240V / 50-60Hz / 80 VA
Operating environment:	
Ambient temperature:	
Ambient relative humidity:	
Atmospheric pressure:	no significant influence for operation.
Max altitude:	

Unit fitted with patented treatment heads. Device designed for uninterrupted use.

The Mobilift M6 PHYSIO is marked s as a medical device by virtue of Annex II of regulation 93/42/EEC (applicable standards IEC 60601-1 Ed3 and related standards)

ELECTROMAGNETIC COMPATIBILITY

For more information about electromagnetic compatibility, refer to the "Electromagnetic Compatibility" appendix.

→ GENERAL WARRANTY CONDITIONS

You have recently acquired an appliance distributed by LPG Systems or an LPG Systems approved distributor. It is the purchaser/user's responsibility to find out from the local authorities the conditions and professional qualifications that should be met before using the appliance.

The purchase of this equipment implies the legal acceptance by the purchaser/ professional user of these general warranty conditions. If the appliance was sold to you by an approved LPG Systems distributor, the purchaser/user should refer to the supplier's warranty conditions. These may in no way increase the undertakings made in these present warranty conditions. The warranty can only be implemented and is only valid if the warranty slip has been duly filled out and returned to LPG Systems within two weeks of delivery, irrespective of the country. Warranty slips that are only partially completed will be rejected.

The appliance is guaranteed against manufacturing flaws and defects in the raw materials. The warranty extends for the shorter of the following two periods: one (1) year OR two thousand (2000) hours of use from the invoice date

During this period, LPG Systems undertakes to exchange or repair free of charge, as quickly as possible, any part that LPG Systems acknowledges as defective, however LPG Systems does not undertake to replace the entire appliance. Traveling and living expenses for our technicians and transportation costs of the appliance or parts to and from the aftersales service workshop are not covered by this warranty.

Replacements and repairs performed within this warranty, with or without immobilization of the equipment, shall not have the effect of extending the warranty period. Replaced parts become the property of LPG Systems or the approved distributor. No compensation shall be paid for loss of use. The purchaser/user is required to allow LPG Systems the necessary time and means to carry out all repairs and deliveries of replacement spare parts, Failure to comply will absolve us from our obligations under the warranty.

The only courts of competent jurisdiction are those within the legal district of LPG Systems' head office regardless of any jurisdiction clauses in any other document.

WARRANTY

GENERAL WARRANTY CONDITIONS (CONT'D)

Warranty exclusions:

- Damage occurring during transportation. Transportation of this equipment and/or spare parts is at the recipient's own risk. Before taking delivery, it is the recipient's responsibility to verify the state of the goods and to make a claim against the transport company in the manner usual in the delivery country.
- Non-observance of the installation and operating instructions, failure to carry out maintenance and/or negligence in maintaining the appliance and/or its filter cartridges, connection to a faulty electricity supply or a non-earthed electricity supply or a power supply whose voltage is different to the one indicated on the appliance.
- If an appliance is sold before the end of the warranty period, the warranty is transferred to the purchaser for the remaining warranty period, on the condition that:
 - i) the original invoice is provided.
 - iil That the initial vendor is informed of the sale

- Modification, mounting of accessories or dismantling of the equipment.
- Any operation and/or intervention not specified in the LPG Systems Operating Instructions and performed on the equipment by the purchaser/user and/or any party not approved by LPG Systems.
- Use of consumables, spare parts, inappropriate components or parts not supplied by LPG Systems.
- Blockage of the appliance through aspiration of a foreign body.
- Normal wear and tear of any of the equipment's parts resulting from normal usage.
- Falls, impacts, lightning, fire, force majeure, water damage and natural disasters.

→ LIMITATION AND EXONERATION OF LIABILITY

Non-compliance with the general guarantee conditions during the term of the warranty and following expiry of the latter, may lead to LPG Systems being exonerated of any liability in the event of damage attributed to the products supplied.

LPG Systems will not be held liable with respect to equipment/material losses or physical accidents (i), following installation that does not comply with the statutory or regulatory provisions of the country where the unit is to be used or (ii) which could jeopardize a Cellu M6 Integral *i* unit, which was the subject of intervention work not scheduled in the LPG Systems operator's manual and/or carried out by the operator or a third party not authorized by LPG Systems.

LPG Systems will be absolved of its liability in the event of use exceeding the level of professional competence/qualification of the operator or resulting from the incorrect use of the unit.

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WARRANTY ACTIVATION

You can activate your warranty online by connecting to our warranty webpage:

http://warranty.lpgsystems.com

→ OR FILL IN THE FORM AND RETURN TO LPG SYSTEMS®

Name*:
Address*:
Country*:
Tel*:
Email:
Type of business:
Profession:
Type of unit: MOBILIFT M6 PHYSIO
Serial number*:
Date:
The personal data collected in this form are sent to LPG Systems, which is responsible for processing it in order to manage customers relations, including after-sales service and warranties. Information with an asterisk must be provided in order for this form to be processed. According to modified French law 78-17 from January 6, 1978 relating to computers, digital files, and freedoms, also known as the "Informatique et Libertés" law, you have a right of access, rectify, and remove personal data about you by contacting LPG Systems in writing at the following address: LPG SYSTEMS – 30, rue Dr Abel – Technoparc de la Plaine – 26000 VALENCE [FRANCE].

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⊿ ATTENTION

To validate the warranty, detach this slip and return to the address below within 15 days following use of the unit:

→ APPENDIX: ELECTROMAGNETIC COMPATIBILITY

TABLE 1: DIRECTIVES AND MANUFACTURER DECLARATION - ELECTROMAGNETIC EMISSIONS

MOBILIFT M6 PHYSIO is intended for use in the electromagnetic environment specified below. The MOBILIFT M6 PHYSIO customer or patient should ensure that it is used in such an environment.

Emissions test	Conformity	Electromagnetic Environment - Directives	
emissions CISPR 11 Group 1		MOBILIFT M6 PHYSIO uses RF energy only for its internal functions. Therefore, its RF emissions are very low and unlikely to cause interference in nearby electronic devices.	
RF emissions CISPR 11	Class B	MOBILIFT M6 PHYSIO may be used in all establishments, including domestic sites and sites that are directly connected	
Harmonic emissions IEC 61000-3-2	Class A	to the low voltage public power grid, which supplies domestic	
Voltage fluctuations and flicker IEC 61000-3-3	Conforms	buildings.	

TABLE 2: DIRECTIVES AND MANUFACTURER DECLARATION - ELECTROMAGNETIC IMMUNITY - EMISSIONS TESTS

MOBILIFT M6 PHYSIO is intended for use in the electromagnetic environment specified below. The MOBILIFT M6 PHYSIO customer or patient should ensure that it is used in such an environment.

Emissions test	Conformity	Conformity	Electromagnetic Environment - Directives	
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV on contact ± 8 kV in the air	± 6 kV on contact ± 8 kV in the air	Flooring should be made of wood, concrete, or ceramic tile. If the floor is covered with synthetic material, relative humidity should be at least 30%.	
Fast transient/burst IEC 61000-4-4	± 2 kV for electrical power lines ± 1 kV for input/output lines	± 2 kV for electrical power lines ± 1 kV for input/ output lines	The quality of the electrical power network should be equivalent to that of a typical commercial or hospital environment.	
Surge IEC 61000-4-5	± 1 kV between phases ± 2 kV between phase and earth	± 1 kV between phases ± 2 kV between phase and earth	The quality of the electrical power network should be equivalent to that of a typical commercial or hospital environment.	
Voltage dips, short interruptions, and voltage variations IEC 61000-4-11	←5% UT (→95% voltage dip) during 0.5 cycle 40% UT (60% UT voltage dip) during 5 cycles 70% UT (30 % UT voltage dip) during 25 cycles ←5% UT (→95% voltage dip) during 55	←5% UT (→95% voltage dip) during 0.5 cycle 40 % UT (60% UT voltage dip) during 5 cycles 70% UT (30 % UT voltage dip) during 25 cycles ←5% UT (→95% voltage dip) during 5s	The quality of the electrical power network should be equivalent to that of a typical commercial or hospital environment. If the MOBILIFT M6 PHYSIO patient requires operation to continue during power outages, the MOBILIFT M6 PHYSIO should be powered through an uninterruptible power supply or a battery.	
Power frequency magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should have levels that are characteristic of a typical hospital or commercial environment.	

NOTE: UT is the AC voltage prior to the application of the test level.

→ APPENDIX: ELECTROMAGNETIC COMPATIBILITY

TABLE 3: DIRECTIVES AND MANUFACTURER DECLARATION - ELECTROMAGNETIC IMMUNITY - IMMUNITY TESTS

MOBILIFT M6 PHYSIO is intended for use in the electromagnetic environment specified below. The MOBILIFT M6 PHYSIO customer or patient should ensure that it is used in such an environment.

Immunity Test	Test level according to IEC 60601	Conformity level	Electromagnetic environment - directives	
Conducted RF disturbances IEC 61000-4-6	3 Veff 150 kHz to 80 MHz	3V	Portable and mobile RF communications devices should not be used closer to any part of the MOBILIFT M6 PHYSIO, including its cables, than the recommended separation distance, calculated from the applicable equation on transmitter frequency.	
Perturbations RF rayonnées CEI 61000-4-3	3 V/m De 80 MHz to 2,5 GHz	3 V/m	Recommended separation distance: d = 1.2VP d = 1.2VP 80 MHz at 800MHz d = 2.3VP 800 MHz at 2.5 GHz where P is the transmitter's maximum power output in watts (W), according to the transmitter's manufacturer, and d is the recommended separation distance in meters (I The field strength for fixed RF transmitters, as determined by an electromagnetic surve at site *2, should be less than the conformity level for each range of frequencies *3. [[1] [1] [1] [1] [2] [1] [2] [2] [3] [3] [4] [5] [6] [6] [6] [6] [6] [7] [6] [7] [7] [7] [8] [8] [8] [8] [8] [8] [8] [8] [8] [8	

NOTE 1: At 80 MHz and 800 MHz, the highest frequency range applies. NOTE 2: These directives may not apply in all situations. Electromagnetic propagation is affected by absorption and by reflections of structures, objects, and people.

- The field strength of fixed transmitters, such as radio/telephone (cellular/wireless) base stations and land mobile radios, amateur radios, AM and FM radio broadcasting, and TV broadcasting cannot be theoretically predicted with accuracy. To measure the electromagnetic environment due to fixed FR transmitters, consider performing an electromagnetic survey of the site. If the field strength, measured where the MOBILIFT M6 PHYSIO is used, exceeds the applicable RF conformity level above, watch the MOBILIFT M6 PHYSIO to ensure that it is operating as normal. If there is any abnormal performance, additional measures may be necessary, such as reorienting or repositioning the MOBILIFT M6 PHYSIO.
- ^b For the frequency range of 150 kHz to 80 MHz, field strength should be less than 3 V/m.

TABLE 4: RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATION DEVICES AND HUBER MOTION LAB MD

MOBILIFT M6 PHYSIO is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The MOBILIFT M6 PHYSIO patient or customer can prevent electromagnetic interference by maintaining a minimal distance between the portable or mobile RF communications device (transmitter) and the MOBILIFT M6 PHYSIO, as recommended below, based on the maximum transmission power of the communication device.

Maximum rated	Separation distance according to the transmitter frequency m				
output of the transmitter W	d=1,2√P	d=1,2√P	d = 2,3√P		
0,01	0,12	0,12	0,23		
0,1	0,38	0,38	0,73		
1	1,2	1,2	2,3		
10	3,8	3,8	7,3		
100	12	12	23		

For transmitters whose maximum rated output is not shown above, the recommended separation distance d in meters [m] can be estimated using the applicable equation for the transmitter frequency, where P is the transmitter's maximum output in watts [W], according to its manufacturer. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the highest frequency range applies.

NOTE 2: These directives may not apply in all situations.

Electromagnetic propagation is affected by absorption and by reflections of structures, objects, and people.



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