USER MANUAL





ACAUTION OI

Federal (USA) law restricts this device to sale by or on the order of a physician.

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RECEIVING INSPECTION

Remove product from package and inspect for damage. If there is any damage, **DO NOT USE** and contact your equipment Provider.

READ ALL INSTRUCTIONS BEFORE USING

Read and understand this manual before using the device.

This manual is provided for your safety and to prevent damage to the device. **If there is anything you do not understand**, DO NOT USE and contact your equipment Provider.



SAFETY SYMBOL DESCRIPTION



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Indicates a potentially hazardous situation which, if not voided, may result in minor or moderate injury.

Used without the safety alert symbol, indicates a potentially hazardous situation which, if not avoided, could result in property damage.

Symbol indicates the device complies with the requirements of Directive 93/42/EEC concerning medical devices and all applicable international Standards.

Symbol indicates the pressure vessel complies with the requirements of Directive 2010/35/EC concerning transportable pressure equipment.

CONSULT ACCOMPANYING DOCUMENTS

accelerates combustion"

Symbol for "COVERING DEVICE WITH GARMENTS WILL PRODUCE OXYGEN ENRICHED ATMOSPHERE"

for "SINGLE USE" (Applies to Cannula only) Symbol

Symbol for "Warning, low temperature /freezing conditions"

Symbol for "DO NOT touch liquid oxygen or parts that have been in contact with Liquid Oxvgen."

Symbol for "Equipment MUST be kept in a well-ventilated area at all times."

vigorously

ALWAYS keep the Portable in an upright position

Symbol for "Warning: High pressure oxidizing gas

Manufacturer Date of manufacture

Symbol for Symbol for "no SMOKING" "USE no oil"

Operating Temperature Prescription required Limitations

Humidity limitation Atmospheric Pressure limitation

Mass

Remove from carry bag Attach content Scale Here

> Volume, HALF FULL Volume, EMPTY



Examine; check



INTENDED USE

To be used as a portable, supplemental, refillable oxygen device this delivers USP (United States Pharmacopeia) Oxygen at a number of various pulsed settings. It is intended to be used as an ambulatory source of oxygen.

Indication: The device is to be used by patients who may have difficulty extracting oxygen from the atmosphere. It is for patients who would normally receive

oxygen via nasal cannula.

Contraindication: The device is not used for patients who cannot breathe by

themselves.

A DANGER

This product is not intended as a life-sustaining or life-supporting device.

SPECIFICATIONS

Dimensions: (Are approximate and may vary by model)

Weight:

Empty 2.9 lbs (1.32 kg)3.6 lbs Full (1.63 kg)Full (including all accessories) 4.6 lbs (2.09 kg)

Length: 4.81 in (12.2 cm)Width: 3.63 in (9.2 cm)Height: 8.19 in (20.8 cm)

Operating Conditions:

Temperature: 35°f to 110°f(1.7°c to 43.3°c)

Altitude: 500 ft (152 m) below Sea level to

10,000 ft (3048 m)

Storage Conditions:

Temperature: 140°f(-23°C to 60°c) -10°f to **Humidity:** 95% Non condensing

Pulse Setting: 0, 1, 2, 3, 4, LPM Equivalents

Maximum Capacity: 0.32 liters

Maximum Working Pressure: 53 psi (3.65 bar)

Maximum 7 foot long standard or high **Cannula Requirement:**

flow adult single lumen oxygen nasal

Pulse Volume Accuracy: Within ±15% of the nominal bolus value

(at each breath rate)

Trigger Method: Inspiratory effort (negative pressure

from patient inhalation)

Breathing Frequency: 1 to 30 breaths per minute

Specifications subject to change without prior notice.



AWARNING

Oxygen supplied from this device is for supplemental use and is not intended to be life supporting or life sustaining. This device is not intended for use by patients who would suffer immediate, permanent, or serious health consequences as a result of an interruption in the oxygen supply.

NEVER smoke in an area where oxygen is being administered.

NEVER use near any type of flame or flammable/explosive substances, vapors or atmosphere.

DO NOT use oils, greases, lubricants or any combustible materials on or near this product. Wash hands properly prior to usage.

DO NOT touch liquid oxygen or parts that have been in contact with liquid oxygen. Liquid oxygen is extremely cold (-297°f/-183°c). When touched, liquid oxygen, or parts of the equipment that have been carrying liquid oxygen, can freeze skin and body tissue.

TO AVOID INCREASED RISK OF FIRE

- Keep this equipment away from electrical appliances. Use and store reservoir and Portable units at least five feet from electrical appliances that may cause heat or sparks.
- Keep oxygen equipment away from open flames. Use and store reservoir and Portable at least five feet away from equipment such as furnaces, water heaters, and stoves that may contain open flames.
- Keep equipment in a well-ventilated area at all times. These devices periodically release small amounts of oxygen gas that must be ventilated to prevent buildup.
 DO NOT store liquid oxygen equipment in a closet, car trunk, or other confined area.
 DO NOT place blankets, draperies, or other fabrics over equipment.
- High concentrations of oxygen can cause rapid burning of other substances.

ALWAYS confirm prescribed dose before administering to patient and monitor on a frequent basis.

DO NOT carry the Portable device under your clothing. These devices normally vent oxygen. Wearing a Portable device under clothing may saturate fabrics with oxygen and cause them to burn rapidly if exposed to sparks or flame. It may take several hours for oxygen levels in fabric to return to normal.

ALWAYS keep tubing or oxygen supply line away from path of walking to avoid potential trip or fall.

DO NOT use if dirt or contaminants are present on or around fill connectors on the Portable device or reservoir.

NO OXYGEN is delivered when the pulse Selector is at the "0" Setting.

NO OXYGEN is delivered in between settings.



AWARNING

NEVER attempt to repair or disassemble this device. Disassembling or unauthorized repair of this device could create a hazardous condition or cause equipment failure. If you have problems, questions, or are unsure if equipment is operating properly, call your equipment Provider.

ALWAYS follow CGA P-2.7 standard, (guide for the safe storage, handling, and use of Portable liquid oxygen Systems in Health care Facilities).

This device is NOT to be used by patients who breathe through their mouths.

DO NOT use while sleeping without consulting your equipment Provider.

DO NOT connect the Portable System to a gas source other than oxygen. Doing this will cause inhalation of hazardous substances.

The cannula is for single patient use only.

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Consistent with the recommendations of the medical community on the use of conserving devices, it is recommended that the Portable liquid oxygen System be qualified on patients in the situations it will be used (rest, exercise, sleep).

This device is designed to operate with a single lumen, adult, nasal cannula with a maximum length of 7 feet or less. Only individuals instructed and trained in its use should operate this device.

This device contains magnetic, ferrous material that may affect the results of an MRI.

DO NOT use liquid leak detector to test for leaks.

DO NOT autoclave.

DO NOT gas sterilize.

DO NOT clean with aromatic hydrocarbons.

DO NOT immerse device in any kind of liquid.

Store the device in a clean area when not in use.

Only use DEHAS liquid System carrying bag.

Avoid dropping the device or placing it in a position where it could fall and become damaged.

DO NOT block the outlet fitting or kink the cannula tubing when the device is in use.

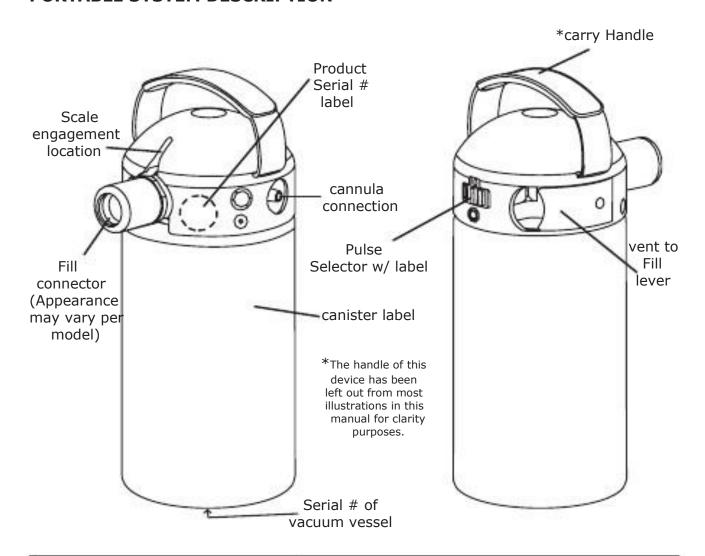
Inspiratory efforts vary from patient to patient. The Portable liquid oxygen System may not be able to detect respiratory efforts of all patients.



PRINCIPLES OF OPERATION

The Portable liquid oxygen System is designed to store and deliver oxygen while maximizing your freedom of movement. The Portable System is used as a supplemental oxygen source which is filled from a reservoir containing liquid oxygen. The device converts the liquid oxygen to a gas which is then available to the patient when triggered by the inspiratory effort of the patient. The Portable System sensing the inspiratory effort delivers a bolus of oxygen at the prescribed rate using the various pulse settings. The device should be filled just before use.

PORTABLE SYSTEM DESCRIPTION



AWARNING

Using a clean, dry cloth, wipe the fill connector dry on both the reservoir and Portable System before filling to prevent freezing.

OPERATING INSTRUCTIONS

Prior to each use inspect the product for visible damage. **DO NOT** use if any damage is found. **NOTE**: If any device labels are missing or illegible contact your Equipment Provider.



OPERATING INSTRUCTIONS continued

Filling the Portable System from the Reservoir

- 1. Check the contents indicator on the reservoir to ensure liquid oxygen is available for filling purposes. When the reservoir is low, inform your equipment Provider.
- 2. Remove the cannula from the Device, if attached.
- 3. Remove the Device from the carrying bag.
- 4. Remove protective cap on reservoir fill coupler, if applicable.

AWARNING

DO NOT fill the device while it is in the carrying bag.

The Portable System is intended to be used with any compatible reservoir with a maximum working pressure of 53 PSi (3.65 bar).

- 5. Using a clean, dry cloth, wipe the fill connector on the reservoir and Device.
- 6. Carefully position the Portable, ensuring that the fill connector of the Portable System aligns with the fill connector of the reservoir.
- 7. Engagement:

PM2200 (Tyco / Puritan Bennett, Top fill) PM2203 (Taema Topfill):

- Connect the portable &reservoir by pressing down to the fill position, being careful not to depress the release button on the reservoir.
- During filling, maintain a slight downward pressure on the Portable System with one hand to keep the device steady and maintain proper filling position.



PM2201 (Mark Series, Top fill with Twist):

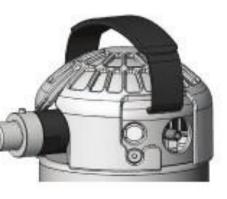
 Rotate the portable System clockwise until the device is locked into position (approximate, rotation 90°).

DO NOT USE EXCESS FORCE WHEN LOCKING INTO POSITION.



PM2202 (Chart / Caire, Side fill):

- Rotate the portable System counterclockwise until the pin of the device engages with the slot of the reservoir connector (approximate rotation 45°).
- Carefully and firmly rotate the portable System back to the upright position, until the Device and reservoir are locked together.





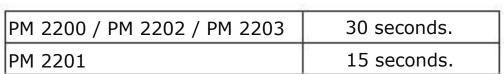
8. While holding the Portable System in the fill position, pull the vent-to-Fill lever to the open position (figure

1). A hissing noise should be noticeable.

NOTE: PM2200 & PM2203, maintain a slight downward pressure on the Portable System with one hand to keep the device steady and maintain proper filling position.

9. Release the vent-to-Fill lever on the Portable System as soon as you notice a change in the sound of venting gas followed by a dense, white vapor coming from the reservoir cover.

NOTE: The maximum time to fill a...



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If the vent-to-Fill lever fails to close and the hissing continues, remove the Portable from the reservoir. The Portable will stop venting in a few minutes. The Portable may require as much as 30 minutes to restore normal operation.

10. Disengagement:

PM2200 / PM2203:

 Disconnect the portable System from the reservoir by pulling in an upright motion. Always hold the device with at least one hand when attempting to disconnect it. (Figure 2)

PM2201 / PM2202:

 Disconnect the portable System from the reservoir by rotating it in counterclockwise direction until the device separates. The device may now be removed from the reservoir.

NOTE:

- 1. It is common to hear a hissing sound after the Portable System has been filled. This is the relief valve venting excess gas pressure. Upon disengaging the Portable System from the reservoir it is common to see condensation on or near the fill connector.
- 2. It is common to have a few small droplets of liquid oxygen coming from the fill connector when disengaging the Portable from the reservoir.

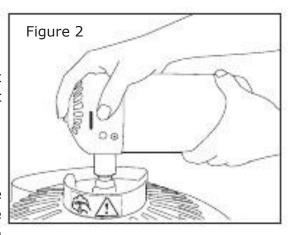


Figure 1



ACAUTION

DO NOT OVERFILL

Filling device longer than above max fill times can lead to OVERFILLING. Overfilling does **NOT** provide any advantages and can cause problem with the use of the device. Overfilling can result in a delay of 30 minutes before the Portable can be used. Releasing the vent-to-Fill lever will stop the filling process. Frost on cap of Portable is a sign of overfill.

AWARNING

If a liquid oxygen leak occurs at the fill connector when you disconnect the Portable, reconnect and disconnect the Portable System to help dislodge any ice or other obstruction. If the liquid leak persists, notify your oxygen supplier. **DO NOT** insert any foreign objects into Fill connector.

If you notice a steady stream of liquid oxygen at the fill connector when you disconnect the Portable System, stay away from the device and immediately notify your oxygen supplier.

DO NOT leave the portable liquid oxygen system unattended during the filling operation.

DO NOT direct flow of oxygen at any person, or flammable material.

NOTE: If the reservoir and Portable System does not disconnect easily, they may have become frozen. Attempt to disconnect them by depressing the release button on the reservoir, if applicable. If this does not work **DO NOT USE FORCE**. Simply allow a few minutes for the frozen parts to warm, and then disengage the Portable when the ice has melted.

11. Check the approximate oxygen contents in the Portable System using the contents scale.

NOTE: The Portable liquid oxygen System will make a hissing noise when venting. This is a normal occurrence.

AWARNING

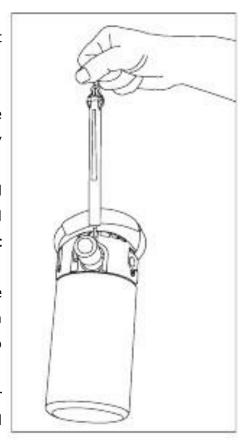
Never open the vent-to-Fill lever when Portable System is not connected to reservoir.

If the vent-to-Fill lever is inadvertently opened, when it is not connected to reservoir, a burst of cold Oxygen will be emitted. It may take as much as 30 minutes to restore to normal operation.



Checking the Approximate Amount of Liquid Oxygen Remaining

- 1. Remove cannula from portable System's outlet cannula connection.
- 2. Remove Portable System from carry bag.
- 3. Attach the ball end of the contents scale to the portable System's engagement location (figure 3) by sliding ball into slot above the fill connector.
- 4. Hold the content scale with one hand, pull down the Portable with the other hand and release. This method will result in a consistent contents measurement.
- 5. Read the contents indicator of the scale to determine the approximate amount of liquid oxygen contents in the device. To ensure you have enough oxygen to meet your needs, check the indicator periodically.
- DO NOT use contents scale for any purpose other than specified, doing so may damage the scale and void the warranty.



NEVER pull the ball end of the contents scale and allow it to snap back into the scale doing so will damage the scale and void the warranty. The table below shows approximate use times for the Portable System after it has been completely filled. The table has been constructed using a typical breathing pattern for oxygen patients. **Your use time may vary from the use times listed below.** We recommend that you learn through experience how long the Portable System will last under your circumstances.

| Approximate use time of a Full Portable System. | |
|---|----------------------|
| Pulse Setting | Approximate Use Time |
| 1 | 9 Hours |
| 2 | 8 Hours |
| 3 | 5.3 Hours |
| 4 | 4.3 Hours |

Breathing from the Portable System

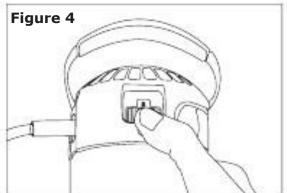
1. Attach a standard adult single lumen oxygen nasal cannula, (no longer than 7 feet) to the device's cannula connection according to the cannula manufacturer's instructions.

ACAUTION

DO NOT use pediatric, low flow nasal cannulas or oxygen mask with this device.



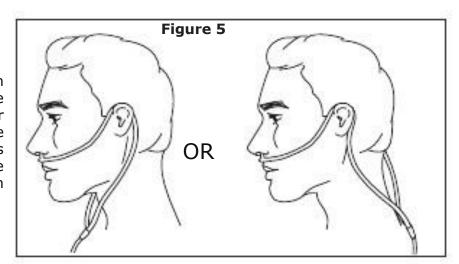
2. Align the Pulse Selector to the prescribed setting (figure 4). The pulse setting value should be clearly visible in the center of the window.



AWARNING

NO OXYGEN is delivered in between settings.

3. Place the cannula in position by inserting the two tips into your nostrils, running the tubing over your ears and then routing the cannula as shown in (figure 5).



- 4. When your Portable System is set to setting 1 or above, oxygen will be delivered only while you inhale. You should notice a small pulse at the beginning of each breath. Oxygen is delivered during this pulse. It is normal for the device to occasionally skip a breath or to pulse twice in one breath.
- 5. Breathe through the nose and feel a pulse of oxygen as you inhale.
- 6. Insert Portable System into the carry bag.

AWARNING

Carry bag may become saturated with oxygen which could cause it to burn rapidly if exposed to sparks or flames. It may take several hours for the oxygen levels in fabric to return to normal.



Positioning device

Always keep the Portable System in an upright position while in use, as illustrated in (Figure 6).

Placing the device on its side, or upside down will shorten the usage time device.

Using the Carry bag

Figure 7 illustrates how the device should be placed in its bag. Ensure the device is oriented so there are no obstructions to the cannula connection.

The options on how to use the carry bag with the device are illustrated below (Figures 8 -10).

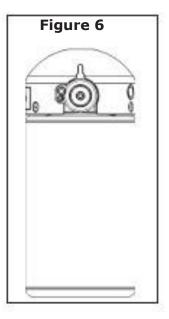




Figure 7



Figure 8



Figure 9



Figure 10



CLEANING

- 1. As needed, clean exterior of the device with a clean, lint free cloth dampened with water. Allow device to dry prior to use.
- 2. Store device in a clean area free from grease, oil, and other sources of contamination.
- 3. Replace carry bag liner as needed.

AWARNING

DO NOT allow water into any of the controls, or the fill connector.

DO NOT use cleaning solutions.

DO NOT immerse device in any kind of liquid.

DO NOT use alcohol, solvents, polishes, or any oily substance on oxygen equipment.

REPLACEMENT PARTS

| Description | Part # |
|----------------------|----------------------------|
| Cannula | 504833 |
| Carry Bag Liner | 504488 |
| Carry Bag With Liner | 504392 |
| Contents Scale | 504393 or 505669 (Graphic) |

MAINTENANCE

ATTENTION: Equipment Provider

This device contains several field serviceable components. Contact DEHAS customer Service to obtain service procedures and related service items. The safety valves have to be checked or replaced a least every five (5) years.

RETURNS

Returned products require a returned goods Authorization (RGA) number. To obtain an (RGA) number, contact DEHAS. All returns must be packaged in sealed containers to prevent damage. The Portable device must be fully depleted of liquid oxygen prior to shipping. DEHAS will not be responsible for goods damaged in transit. Refer to DEHAS return Policy available on the internet, www.dehas.com.



TROUBLESHOOTING

If the Portable liquid oxygen System fails to function, consult the Troubleshooting guide below.

If problem cannot be corrected, consult your equipment Provider.

| Problem | Probable Cause | Remedy |
|-----------------------|--|---|
| A. No pulse | 1. Device empty. | 1. Refill device. |
| | 2. Pulse Selector set to "0". | Set to prescribed setting |
| | 3. Pulse selector positioned between settings. | 3. Rotate Pulse selector to your prescribed setting |
| | 4. Device not sensing breath. | 4. a) Check position of cannula in nose b) Do not breathe through mouth. |
| | 5. Cannula disconnected. | 5. Reconnect cannula |
| | 6. Kinked or blocked Cannula. | 6. Remove kink/obstructions, replace cannula |
| | 7. Device overfilled. | 7. Wait approximately 30 minutes until device returns to normal operating conditions. |
| | 8. Device not in upright Position. | 8. Position device upright |
| B. Device not filling | 1. Not pulling vent-to- Fill | 1. Pull out vent-to-Fill |
| | lever. | lever. |
| | 2. Not connecting fill connectors completely. | 2. Makes sure fill connector are fully engaged. |
| | 3. Reservoir empty. | 3. Contact liquid Oxygen Supplier to refill Reservoir. |

Troubleshooting continued on next page.



Troubleshooting continued:

| Problem | Probable Cause | Remedy |
|---|--|---|
| C. Unable to disconnect Portable from Reservoir. | Fill connectors frozen from moisture on fill connectors. | Depress the release button on the Reservoir. (PM2200 ONLY) b) Allow time for device to warm. |
| D. Device frosted & no pulse. | Device is overfilled. | Wait approximately 30 minutes until unit returns to normal operating conditions. |
| E. Device is making a hissing noise, (venting). | 1. Device was just filled. | 1. Start using device. |
| This may holder, (venturity). | 2. Device was turned on its side. | Hissing should reduce in a few seconds. |
| NOTE: VENTING IS NOT A LEAK! | 3. Patient is not using device after filled. | 3. Device will continue to vent until depleted (This is a normal operation) |

DISPOSAL

Dispose of the Portable liquid oxygen System in accordance with the local regulations.

Please Recycle





NOTES

| DEVICE SERIAL #: | IN SERVICE DATE: |
|------------------|------------------|
| DATE | |
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LIMITED WARRANTY AND LIMITATION OF LIABILITY

DEHAS warrants that the DEHAS liquid oxygen System (the Product) and the following component parts thereof will be free of defects in workmanship and/or material for the following period:

EasyMate liquid oxygen System Vessel vacuum

One (1) year from date of shipment Five (5) years from date of shipment

This limited warranty does not cover: 1) Normal routine service items, 2) Defects due to the wear and tear caused by mating components, 3) repair or replacement necessitated by misuse, abuse, or accident.

Replacement parts or repaired products shall be free from defects in workmanship and materials for the duration of the unexpired portion of the original warranty or Ninety (90) days from the date of reshipment, whichever is longer.

Should any failure to conform to this warranty appear within the applicable period, DEHAS shall, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with DEHAS instructions, operational verification procedures and standard industry practice, and that no modifications, substitutions, or alterations have been made to the goods, shall, in its discretion, and at its own expense, repair or replace the defective component(s).

ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES AND THERE ARE NO WARRANTIES OTHER THAN AS SET FORTH IN THIS CONTRACT.

Neither the representative of DEHAS nor any retailers are authorized to make oral warranties about the merchandise described in this contract, and any such statements shall not be relied upon and are not part of the contract for sale. This writing is a final, complete and exclusive statement of the terms of the contract and sale.

DEHAS disclaims any warranty of merchantability, fitness for a particular purpose or any other warranty of quality, whether express or implied except as set forth above.

DEHAS shall not under any circumstances be liable for special, incidental or consequential damages including but not limited to lost profits, lost sales, or injury to person or property. Correction of non-conformities as provided above shall constitute fulfillment of all liabilities of DEHAS. Whether based on contract, negligence, strict tort or otherwise. DEHAS reserves the right to discontinue manufacture of any product or change product materials, designs, or specifications without notice.

DEHAS reserves the right to correct clerical or typographical errors without penalty.

DECLARATION OF CONFORMITY



DEHAS Medical Systems GmbH Wesloer Straße 107-109 23568 Lübeck

GERMANY



EasyMate Portable Liquid Oxygen Systems:

PM 2200 Series

Classification: IIb

Classification Clause 3.2 Rule 11 of Annex IX of MDD

criteria:

We herewith declare that the above mentioned products meet the provisions of the following EC Council Directives and Standards. All supporting documents are retained under the premises of the manufacturer and the notified body.

Directives: General Application Directives: (MDD) Medical Device Directive,

Council Directive 93/42/EEC Of 14 June 1993 Concerning Medical Devices, Directive 2007/47/EC Of The European Parliament and of the Council of 5 September 2007 and 2010/35/EC Transportable Pressure

Equipment Directive.

Applied Standards: ISO 15223-1:2012 BS EN ISO 18777:2009

EN 1041:2008 DIN EN ISO 18779:2005
BS EN 1418:1998 BS EN 1251-1:2000
EN ISO 14971:2013 BS EN:1251-2:2000
ISO 15001:2011 BS EN:1251-3:2000
BS EN ISO 15614-1:2004 EN 62366:2008
DIN EN 13544-2:2010 DIN EN 12300:2006

Notified Body: DNV Medcert GmbH / **€** 0482

Address: Pilatuspool 2, 20355 Hamburg; GERMANY

Certification Registration No's: 4153DE410180612 Date of expiry: 11/2021

Devices already manufactured: SN traceability via Device History records

Validity of DOC: 06/ 2019 to Date of Expiry

Notified Body for Pressure SGS TÜV Saar GmbH/ 1637

Equipment:

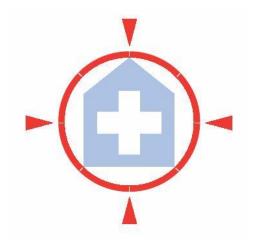
Am TÜV 1, D-66280 Sulzbach

Certification Registration No's: Z-O-026-09899/13 Date of Expiry: 2023-03-26

Manufacture Representative: Quality Management

Position: Manager, Quality System/ISO Representative

Date of Issue: 23/03/2019



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Tell us how we are doing! Visit us at www.dehas.de