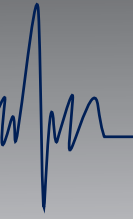




Solutions Start Here...

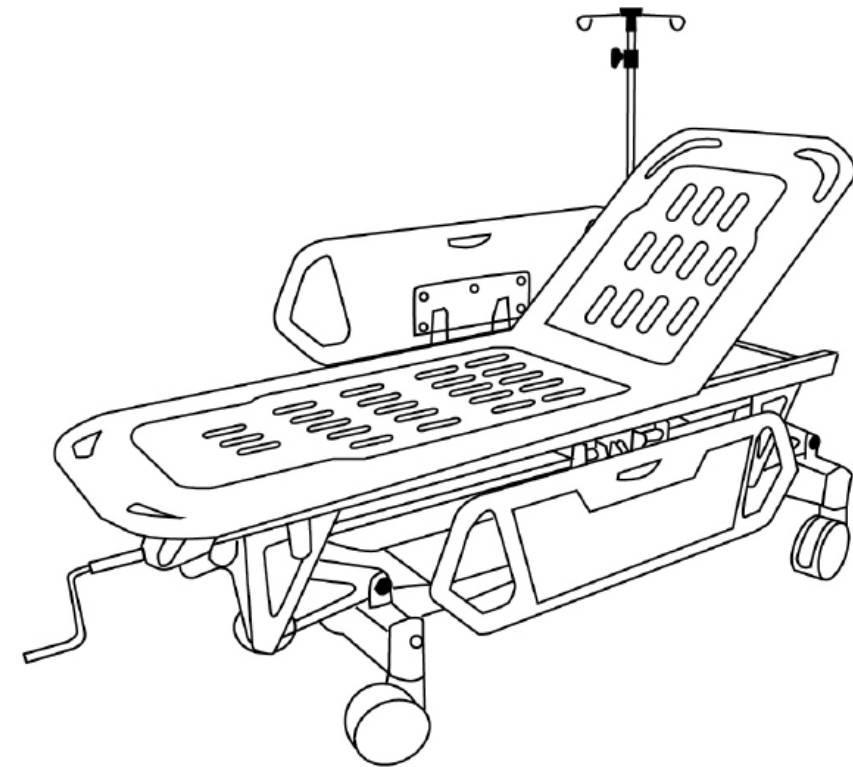


Solutions Start Here

www.smpcanada.com

SMP Canada

10 Sims Crescent, Richmond Hill
Ontario, L4B-1K9 Canada
Tel: (905) 764-7767 Fax: 1-866-627-9798
support@smpcanada.com



USER & MAINTENANCE MANUAL



USER MANUAL

TRANSPORT STRETCHER **SMP 450ML**

About Us

We are a company that draws on innovation and excellence to provide solutions that enhance the ability for caregivers to effectively fulfill their duties. Our goal is to build a high-performing medical technology company that gives healthcare providers the tools they need to achieve better outcomes.

We are committed to helping our customers deliver safer, more efficient, technologically advanced equipment to the market place. Caregivers throughout the world look to us for solutions because we strive for excellence and adhere to their suggestions for improvement. We bring the passion, dedication, innovation and the drive in developing solutions that matter in making a difference in the lives we help save.

At SMP, we believe results speak louder than words. Our company is one that sets high standards with an emphasis on paying attention to details. We are passionate about raising the bar and regularly surpass our own ambitious goals.

Our products comply with and conform to world renowned healthcare standards such as NFPA, HTM, CSA, CE, FDA, IEC, UL and ISO 13485. We continually strive to achieve superior clinical results. We push the frontiers of medical research while maintaining uncompromising clinical integrity.

Our strategic relationship extends out to over 30 partners globally. Our partners rely on us regularly to provide quality turn-key solutions to better serve the health care industry.

We take great pride in providing accredited products that meet and exceed industry requirements.

At SMP, we don't just make promises, we deliver results!



Intertek



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General Remarks

We congratulate you on your choice of a SMP-450ML manual transport stretcher and would like to thank you for your confidence in our company and its products.

You have purchased a SMP-450ML manual transport stretcher, developed and manufactured in accordance with the current state of technical knowledge.

SMP Canada's manual transport stretcher fully meets all safety and operational requirements. They are tested in accordance with international standard and carry the CE seal. This confirms that they fulfill the safety requirements relating to medical products.

This user manual is intended to give you and your staff practical information and tips on the safe and correct use of the SMP manual transport stretcher.

When putting the stretcher into service for the first time, or wanting to learn about its operation and maintenance, one must read and strictly obey this user manual.

To avoid faulty handling and to ensure trouble-free operation of the manual transport stretcher, this documentation must be available to caregivers and/or patients at all times.

Secondary Medical Products Canada Inc.

SMP Canada

10 Sims Cres

Richmond Hill, Ontario, L4B 1K9

Canada

Tel.: ++1 905-764-7767

Fax: ++1 866-627-9798

E-Mail: info@smpcanada.com

Website: www.smpcanada.com



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Performance Characteristics

1.1) Height Adjustment

The SMP-450ML transport stretcher allows manual height adjustment of 500mm-900mm so the caregivers can adjust the height of stretcher according to the situation they are in.

1.2) 6" castors for easier maneuverability

SMP-450ML is ergonomically designed for the safety of the caregivers and the patients. We understand that it can take a toll on the caregivers' body by pushing the stretcher with a patient in it from one room to another. That is why we have designed and installed 6" castors on our beds so the caregivers can have a lot less strain on their bodies while pushing the bed. Our castors have passed the load bearing test of the European Council directive 2002/95/EC & 2005/618/EC.

1.2.1) Retractable 5th Wheel

A 5th wheel can be engaged as an added option to help with the movement of the stretcher along rough surfaces and sharp turns.

1.3) Backrest Adjustment

In some situations the patient is required to be transported with the back body slightly raised. That is why SMP-450ML allows backrest height adjustment between 0° - 60°.

1.4) 2 section height adjustable IV pole

*** can be installed on the head end or the foot end of the stretcher**

Our engineers have designed the manual stretcher in a way that the IV pole can be affixed on the head end or the foot end of the stretcher. IV pole provides the height adjustability of 686mm-1499mm. The installation only takes a few moments so the caregivers can spend more time looking after the patients.



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1.5) Central Locking Brake

SMP-450ML is ergonomically designed with the care givers and patients in mind. That is why we have developed a central locking brake system which can be engaged and released by foot pedals.

1.6) Automatic lifting side rails

It makes a world of a difference to have the luxury of retracting side rails installed on the stretcher. It can be used as added safety measure to limit the patient from rolling out of the stretcher or simply have it as a support for the patient to get in and out of the stretcher.

1.7) Oxygen Cylinder Holder

SMP-450ML is smartly equipped with a small oxygen cylinder holder at the head end of the stretcher.

1.8) Foldable Crank Handle

As an added safety measure the crank handle for height adjustment of the stretcher can be folded down after usage.

1.9) Mattress

SMP-450ML comes equipped with water resistant and anti-fungus surface material mattress.



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2) Technical Data

Reference	Item		Unit	Parameter
1	Size of bed board	length	mm	1910
2		width	mm	630
3		height	mm	500-900
4	Side Rails	length	mm	290
5		width	mm	750
6		depth	mm	43
7	Angle of bed frame	backrest	(°)	0-60° (+-5°)
8	Overall size	length	mm	1910
9		width	mm	673
10		height	mm	500-900
11	Stretcher weight		kg	79
12	Caster size		inch	6"
13	safe working load		Kg	159 kg
14	Wheel base		mm	152.4
15	Minimum under stretcher clearance		inch	2"
16	Crank		Degree	360°
17	Operable Temperature Range		Celsius	+10°C to +40°C
18	Operable Relative Humidity Range		%	30% to 95% non-condensing
19	Central Locking Braking System			
17	Functions: Height Adjustment by Crank Functionality Retractable 5th Wheel Backrest Adjustment Height Adjustable IV pole Central Locking Brakes Retractable Side Rails Oxygen Cylinder Holder Washable Mattress			

* Product withstands storage/transportation in relative humidity range of 10 to 95%

* Product withstands storage/transportation in relative humidity range of 10% to 95%



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3) Warranty and liability

We accept liability for possible errors and omissions within the terms of warranty laid down in the main contract. Claims for damages – from whatever legal grounds they may be held to derive – are expressly excluded.

We reserve the right to make technical changes to the manual transport stretcher described in this user manual in accordance with technical developments.

We accept no liability whatsoever for any damage and/or disruption caused by faulty handling and/or a failure to follow the instructions in this user's manual.

4) Safety regulations

The manual stretcher may only be put into service, operated and used **a)** as intended by the manufacturer, **b)** in accordance with the provisions of the medical products law and its enacted statutory instruments, **c)** with due regard to good technical practice and **d)** in accordance with safety and accident-prevention regulations. **ON NO ACCOUNT** may the stretcher be used in a faulty condition that would endanger patients, caregivers or others.

The manual transport stretcher may only be operated by those able to guarantee its correct handling by virtue of their professional qualifications, knowledge and/or experience.

4.1) General safety instructions

CAUTION!

Refer to user manual!

Please read safety instructions!

WARNING! – Serious injury can be caused when moving parts of the stretcher. Make absolutely sure that there are no parts of the body poking through the safety frames during lifting of the patient and operation of the crank function. Ensure without fail that there are no people, pets or objects beneath the bed.

WARNING! – In order to avoid falls, always return the stretcher to lowest position after each use of the adjustment functions. Make absolutely sure that:

- a) The stretcher is in its lowest position before getting into or out of it, and
- b) The brakes are applied.

WARNING! – Side Rails only mark the limits of the stretcher. Other appropriate measures must be used to restrain patients.



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WARNING!

- > Only use original spare parts for repairs.
- > Only repair stretcher when it is in lowest position.

4.2) Checking the operational safety and condition of the stretcher

Before putting the stretcher into service, it is essential to make absolutely sure that it is in good working condition and safe to use. This test must not only be carried out before the first use, but continuously throughout the service life of the stretcher. If necessary, the stretcher must be tested daily or after each shift to ensure that its use does not endanger anyone. To reduce maintenance to a necessary minimum, the stretcher should be cleaned, disinfected and tested as soon as possible after each use so that it can be used again without delay or risk.

In cases of malfunctioning, it may be necessary to transfer the patient to another stretcher.

4.3) Position of the manual transport stretcher – Danger if falling out of stretcher

In the case of unsupervised patients, we recommend that the stretcher is put into its lowest position to minimize the risk of injury due to the patient falling out of the stretcher. In other cases, the stretcher should be put at a height proportionate to the size of the patient.

4.4) Four-caster central braking system – Caution! Risk of accident

Unless in transport, the brakes must always be applied so that patients can use the stretcher as a support when accessing or exiting it. Serious falls can result through an un-braked stretcher rolling away. After applying the brakes, check that the stretcher is really immobile, i.e. that the brakes are fully applied to all four castors.

4.5) Height adjustment – Risk of entrapment between side rails and Chassis

When adjusting the height of the stretcher, make absolutely sure that no limbs, bedding or other objects are situated between the side rails.

4.6) Side rails - Danger of entrapment

1. Side rails may be operated **ONLY** by caregivers instructed in their use.
2. Make sure side rails – or elements of them – are either fully raised and locked or fully lowered.



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3. If the side rails are being used to protect a child or a person whose physical state may make their use appropriate, then make sure that the stretcher operations are out of reach. We also recommend the use of side rail covers. Failure by caregivers to obey these safety rules may cause hematoma or other injury to hands, knees, fingers, feet, shins and hips through entrapment.

5) Intended use

The SMP manual transport stretchers are intended to be used solely for the transport of patients usually from the ambulance to patient rooms in hospitals, clinics and/or nursing institutions.

Any use of the SMP manual transport stretcher that deviates in any way whatsoever from this intended use is expressly excluded from possible liability claims.

5.1) Incorrect use

The incorrect use of the manual transport stretcher can be a source of danger.

Examples of incorrect use are:

- Operation of the stretcher by patients without prior instruction.
- Connecting electrical devices to the stretcher which are not suitable for the purpose intended (subject to management's duty of care)
- Moving the stretcher by pulling the mattress
- Trying to move manual transport stretcher with brakes applied
- Transporting patients by towing or pushing stretcher with a vehicle,
- Using the stretcher with loads in excess of specified maximum safe working load.

6) Before using the stretcher for the first time

Before the stretcher is put into service for the first time, this user manual must be read carefully by all those responsible for the operation of the stretcher.

Before the stretcher is put into service for the first time, it is absolutely essential to carry out a functional test.

Before the first use, caregivers must receive detailed instructions in the operation of the stretcher. In addition, caregivers must be made fully aware of potential dangers that can arise in spite of the correct operation of the stretcher.



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A functional test **MUST** be carried out in the following circumstances:

1. When the stretcher is put into use for the first time.
2. When the stretcher is to be used by a new patient.
3. When the stretcher is put back into use after a period in storage.
4. When the stretcher is put back into use after cleaning and/or disinfection.
5. When it is necessary to identify incidents of malfunctioning or faults.
6. At least once a year.

The test comprises the following testing procedures that **MUST ALWAYS** be carried out over the **FULL RANGE** of adjustment:

1. Backrest adjustment
2. Height adjustment
3. Brakes
4. IV pole installation
5. 5th wheel functionality

Warning: Make sure all functions are working correctly. If a fault is found, the stretcher must be taken out of use at once and not put back into use until the fault has been corrected!

6.2) Carrying out a functional test

1. Check all visible components for damage, distortion, and breakages.
2. Press “release handle” to raise and lower backrest.
3. Rotate crank clockwise and counter clockwise to ensure proper height adjustment of the stretcher.
4. Engage and release brake paddle to ensure proper functionality.
5. Engage and release 5th wheel to ensure proper functionality.

The stretcher is always ready for use, i.e. operational!

In case of malfunctioning or faults, inform the responsible service agency!



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7.) Cleaning and disinfection

Risks can arise through the incorrect cleaning and/or disinfection of the stretcher.

7.1) Cleaning and disinfection - Wipe and spray disinfection

The use of chemical solvents, abrasive cleaning agents of any kind and organic solvents such as halogenated or aromatic hydrocarbons and ketone is not permitted. The use of highly concentrated caustic soda is **not** permitted, either.

Follow these instructions when using cleaning agents and/or disinfectants:

- Decontaminants in the prescribed concentrations may not exceed or fall below a pH value of 6-8.
- They may not contain any corrosive or caustic substances.
- They may not contain any substances that alter surface finishes or the adhesive properties of plastics.
- They may not affect the properties of lubricants.
- Water hardness may not exceed 0.9 mmol/l (to 5° d).

Fully desalinated water may not be used.

Chloride < 100 ppm
Silicate as SiO₂ < 15 ppm
Iron < 0,05 ppm
Manganese < 0.01 ppm
Copper < 0.05 ppm

This information reflects our current knowledge and experience. It does not exempt users from carrying out their own tests and trials as local conditions, e.g. water hardness, can vary. A legally binding guarantee of the nature of specific properties cannot be assumed.

We accept no liability for damage to surface finishes caused by the use of unsuitable cleaning agents and/or disinfectants, by the use of incorrect concentrations of such cleaning agents and/or disinfectants or by the incompetent or inappropriate cleaning of the bed.



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8.) Service and maintenance

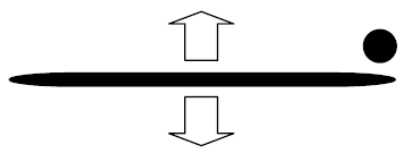
The SMP manual transport stretcher requires very little maintenance. All moving parts of the lifting gear, mattress-frame drives and side rails are permanently lubricated during the manufacturing process. None of these parts need re-lubrication when the bed is correctly used and cleaned. The manufacturer assumes, however, that stretchers are regularly inspected and damage such as worn parts, loose screws or fractures are immediately put right.

8.1) Maintenance Instructions

In the case of repairs and maintenance work carried out on the SMP-450ML, SMP only accepts liability for its safety and functional efficiency when:

- Delivery, maintenance and repair were carried out by a SMP Canada Service technician or by a person authorized to carry out such work by SMP Canada.
- The SMP-450ML is used in accordance with the instructions given in the user's manual.

9.) Types of Patient Positioning



FLAT POSITION, **height adjustment**
(Figure 1)



RAISED BACK SECTION
(Figure 2)



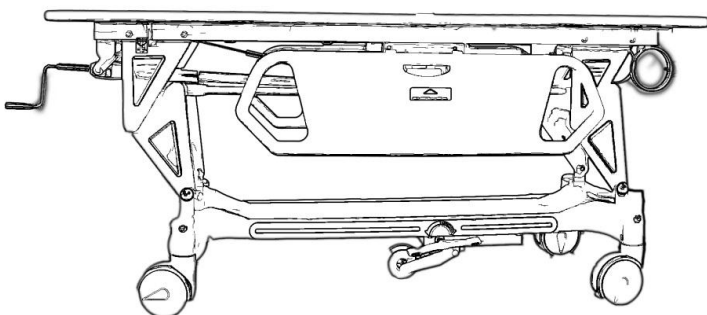
USER MANUAL

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10) Operation Functions

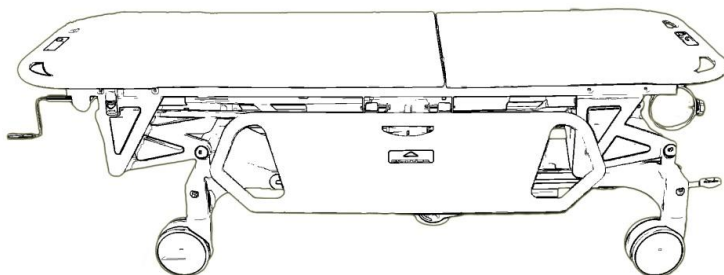
10.1) Flat position height adjustment

Raise the mattress-frame by rotating the crank clockwise. Once the stretcher reaches its maximum height you will hear a clicking noise while rotating the crank.



(Figure 3)

Lower the mattress-frame by rotating the crank counter-clockwise. Once the stretcher reaches its lowest height you will hear a clicking noise while rotating the crank.



(Figure 4)

Warning: When the crank is operated, pull the crank handle and fold it down to avoid any injuries to the caregivers' limbs.

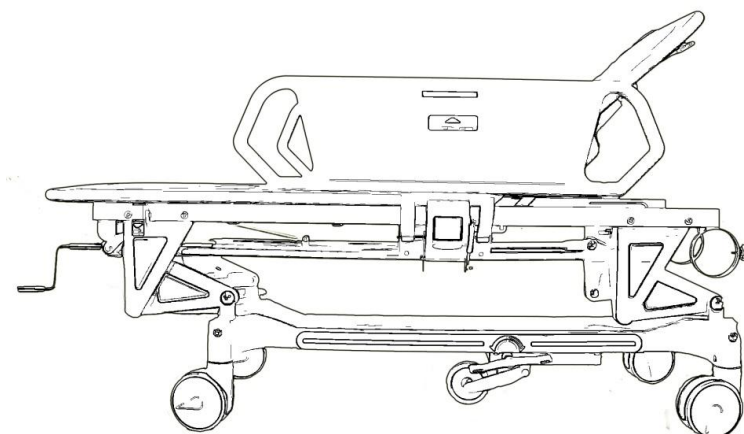


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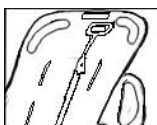
Warning: When lifting or lowering the mattress-frame with raised side rails, it is **ABSOLUTELY ESSENTIAL** to make sure that the limbs of patients or others are not poking through or resting on the safety frames!

10.2) Backrest height adjustment



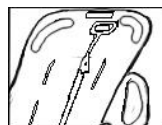
(Figure 5)

Raise backrest by pressing the red handle located under the head end of the stretcher.



(figure 6)

Lower backrest by pressing the red handle located under the head end of the stretcher with one hand and pushing the head board down with the other hand.



Warning: Use both hands when lowering and raising the back board. Press red handle with one hand and use the other hand to lower and raise the board

Warning: When lifting the backrest with raised side rails, it is **ABSOLUTELY ESSENTIAL** to make sure that the limbs of the patients or others are not poking through or resting on the side rails!

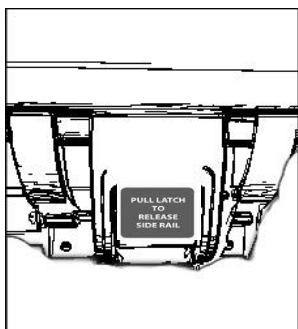


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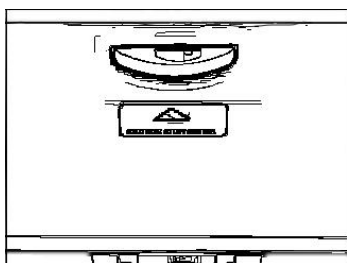
10.3) How to lower and raise the side rails

To lower the side rail, pull the latch attached to the side rail and simultaneously push the side rail down to its lowest position. To protect patients, the side rails can be raised individually or together, as appropriate. Raising all side rails provides patients with complete protection.



(Figure 7) side rail latch

To raise the side rails pull each side rail from the side rail handle till the latch locks in its place.



(Figure 8)

Warning: Make sure there are no obstacles in between the side rails and the frame of the stretcher when lowering and raising the side rails.



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10.4) Applying & Releasing Central Locking Brake

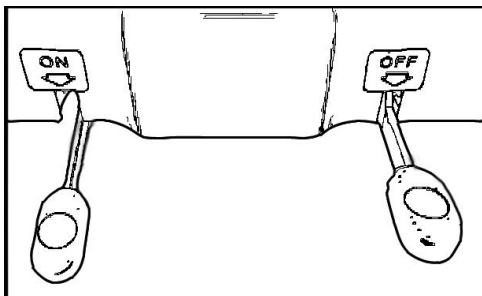


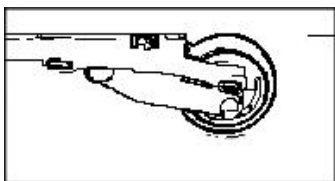
Figure 9

The ergonomic design of the SMP-450ML allows you to apply and release the central locking brake system by a pedal (Figure 9) attached to the frame at the head end of the stretcher.

By pressing the “ON” pedal, brakes are applied and by pressing “OFF” pedal brakes are released.

10.5) Engaging and Disengaging 5th Wheel

The 5th wheel can be engaged to help with the smooth maneuverability of the stretcher. The wheel can be engaged or disengaged from both sides of the stretcher. To engage the 5th wheel, press down on the pedal with the red label on either side of the stretcher.



(Figure 10)

To disengage the 5th wheel, press down on the pedal with the blue label on either side of the stretcher.



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10.6) Installing IV Pole

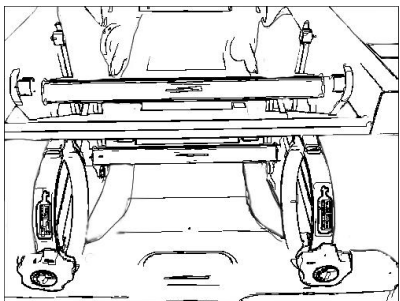
There are adapters on the head end and the foot end of the stretcher for fitting an IV Pole.



(Figure 11) *IV pole holder*

10.7) Oxygen Cylinder Holder

To install the oxygen cylinder insert the cylinder in its slot and lock it securely.



10.8) Mattress

SMP-450ML comes standard with a mattress. The surface of the mattress is washable and is manufactured with an anti-fungus material to limit infection control.



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11.) Environmental Conditions for Transport and Storage

Condition	Range
Temperature	negative 40° - positive 70°c
Relative Humidity	95% non-condensing
Pressure	50kPa to 106 Kpa



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NOTES:



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