

# Smirthwaite 130

Mobile Hoist



## User Manual

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## 1 Safety Instructions and Warnings

### 1.1 Introduction



Please read and understand this manual in its entirety before using your Mobile Hoist.

The information in this manual is important for the safety of anyone near the Mobile Hoist and must be read and understood to help prevent injuries. It is also crucial to the proper operation and maintenance of the Mobile Hoist.

The Hoist is designed to be used in conjunction with slings and accessories. Please refer to any user guides supplied with these components while reviewing this manual.

Should any questions arise from reviewing this manual, contact your local authorised representative.

Failure to comply with warnings in this manual may result in; injury to the operator and/or client and/or damage to the Mobile Hoist or related components.

If, during the use of this device or because of its use a serious incident has occurred, please report it to the manufacturer and to your national authority.

Store this manual with the documents included with the Mobile Hoist and sling(s). Contents of this manual are subject to change without prior written notice Ensure you are aware of the sling manufacturer's fitting instructions.



Do not attempt to use this equipment without first understanding the contents of this manual.

Unauthorised modifications on any Smirthwaite product may affect its safety. The manufacturer will not be held responsible for any accident, incident or deficiencies of performance that occur because of any unauthorised modification to its products.



Do not use a clip fit sling on a lifting arm designed specifically for loop fitting slings.

### 1.2 Manufacture

The Mobile Hoist is manufactured at the address below:



#### **Prism Medical UK**

Unit 1, Tir Llwyd Industrial Estate, St Asaph Avenue, Kinmel Bay, Conwy, LL18 5JZ  
Telephone number: 01924 840 100

### 1.3 European Authorised Representative

The address of the European Authorised Representative for this product:



#### **European Healthcare & Device Solutions (Ireland) Ltd**

Stratton House, Bishopstown Road, Cork, Ireland, T12 Y9TC.  
Telephone number: +353(86)2280846

### 1.4 Symbols Used

The Table below includes all Symbols from BS EN ISO 15223-1:2021 that can be found in this Manual and on the Product and what they represent. Refer to this Table when you are unsure of what a symbol represents.















	Consult instructions before use		Caution – see instructions for use
	Manufacturer		Date of manufacture
	This product is CE Marked		EC Authorised Representative
	Serial number		Catalogue number
	Temperature range		Packaging indicator – Keep dry
	Humidity range		Medical Device
	Importer symbol		This manual has been translated symbol

Table 1

### 1.5 Contraindications / Limitations

There are no known “contraindications” associated with the usage of the 130 Mobile Hoist, provided they are used as per manufacturer’s recommendations and guidelines. However, it is recommended that a client specific assessment is completed by a trained and knowledgeable health care professional to determine the method of transfer.

The manufacturer does not recommend a required number of care givers for the use of our products. This information and recommendation can only be provided after a thorough personalised, case specific assessment, as there are many factors that can influence these decisions.

### 1.6 Intended Use

For internal use only.

The mobile hoist is a lifting aid used by trained personnel. The mobile hoist makes it possible to transfer/lift mobility impaired clients with minimal strain or risk to the caregiver, while providing complete safety, dignity, and comfort to the client.

The mobile hoist is one of two components that makes this possible. The other component, the sling, is a specially designed fabric accessory that attaches to the Hoist by means of a carry bar and straps and holds the client during the lift/transfer.

Please refer to the user guides supplied with the sling and reference them while reviewing this manual.

The functions of raising and lowering the boom and opening and closing of the legs on the Hoist, are accomplished by pressing buttons on the hand control. The hand control is attached to the Mobile Hoist.



The device is used under instruction, and the operation of the aid is undertaken by a trained carer. A risk assessment must be performed before using any other manufactured slings or Mobile Hoist, to ensure safe use can be established.

- The 130 Mobile Hoist is intended to be installed on a flat and levelled surface prior to use.
- The Hoist must be installed only by persons authorised by Smirthwaite or who have the rights to install and commission the Hoist safe for use.
- Under no circumstance should the Mobile Hoist or entire system be put in control of a person who has not been properly trained in the use and care of this equipment. Failure to adhere to this warning may result in serious injury to the operator and/or the individual being transferred.
- In facilities where more than one operator will be responsible for using the Mobile Hoist and sling(s) it is imperative that all such members be trained in the Mobile Hoist proper use. A training program should be established by the facility to acquaint new operators with this equipment.
- The Mobile Hoist, and associated slings are not toys. Do not use it for unsafe practices. Do not allow children to play with the Hoist or any of its components.
- Your guarantee is void if persons unauthorised by Smirthwaite perform work on the Mobile Hoist.
- To maintain optimum function, the Mobile Hoist should be inspected and maintained on a regular basis. See section 'General Inspection, Maintenance and Cleaning' within this user manual.
- Any accessories used with this Mobile Hoist including belt(s), should be checked to ensure that they are in good working order. Check for signs of wear to each component prior to use. Report any unusual wear, or damage immediately to your local authorised dealer.
- The 130 Mobile Hoist and Slings(s) are intended only for transferring of a person. The manufacturer or Smirthwaite will not be responsible for any damage caused by the misuse, neglect or purposeful destruction of the Unit and/or its associated components.
- The Mobile Hoist and its associated parts are certified to a maximum load of 130 kg. Do not exceed the maximum rated load of any of the components.
- Ensure that a clear space is maintained around the Mobile Hoist. Before performing a transfer, check for and move all obstacles out of the way.
- Your product is for aiding and transferring a patient. Do not use it, or allow it to be used, for any other purpose.
- Protecting the people present, visually monitor the sling(s) loops connection points during transfer stages, so the belt remains firmly attached to the clipped carry bar.
- In areas where children are prone to be present be vigilant when carrying out a transfer.

- To reduce the risk of unintended use, when the hoist is not in use, remove the sling(s) from the product to prevent entrapment or strangulation should the device be tampered with.
- Between Hoist, Spreader Bar and Body-Support Unit, the lowest maximum load shall always be used.



You may need to seek specialist advice on how to assist some people with specific moving and handling needs. Sources of advice include, but is not limited to, professional bodies and organisations, occupational therapist, physiotherapists, manual handling advisers and ergonomist with experience in health and social care.

### 1.7 Warning Notes



Your Mobile Hoist has been manufactured and tested to exceed BS EN 10535:2021. This does not mean that it can be used without care. ALL OPERATORS should have read the operating instructions and appreciate this warning section.

1. ALL Mobile Hoists are less stable on sloping surfaces. A 5-degree slope is the maximum permitted and then only with great care.
2. ALL Mobile Hoists are dangerous to the person being transferred when used recklessly or pushed at speed.

### 1.8 Operating Environment

The Mobile Hoist is suitable for use within the professional health care facility environment as well as the home health care environment.

The Mobile Hoist is not suitable for any special environments.

The Mobile Hoist is not intended to be used in environments where there are rapid changes in the environmental temperature and humidity during intended use.

Device Name	Order Code
Smirthwaite 130 (130 kg Safe Working Load)	1301ESS161000

Table 2

## 2 Components/Key Parts

Please see below to familiarise yourself with the components of the Mobile Hoist. The image below shows the contents of the Hoist. If you have not received all the components contact your Smirthwaite dealer immediately – contact details are provided on the last page of this manual.

Item	Description	Item	Description
1	Boom	6	Handle
2	Mast	7	Front Castors
3	Control Box & Battery	8	Leg Actuator
4	Manual Emergency lower	9	Base
5	Carry Bar /Carry Bar cover	10	Rear Castors
11	Serial Number/ Product Information	12	Lift Actuator

Table 3

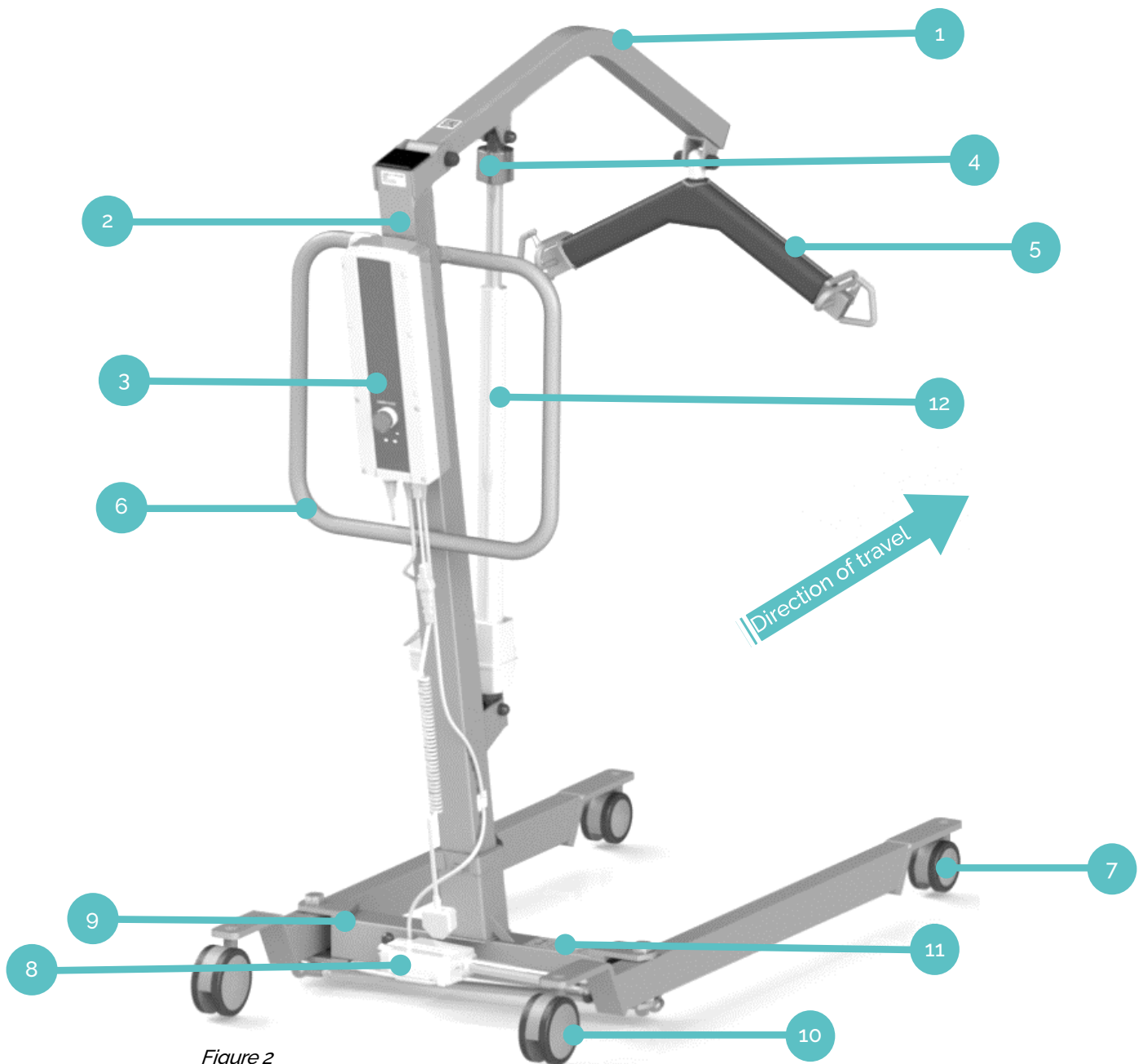


Figure 2



### 3 Assembly instructions

#### 3.1 Unpacking



Some of the parts are heavy and will need to be lifted with care. Items weighing over 20 kg will require a two-person lift. Please refer to technical specifications for components weights.



The Hoist will arrive to you in a robust box, please be careful when removing the components from the box. Please read the user guide in full before operating.

This user manual should be kept safe for future reference.

The Hoist has been specifically designed to be installed in both the professional and home health care environments.

No matter the environment, health and safety factors should be considered to ensure the safety and essential performance of the Hoist and to avoid unnecessary damage or injuries to people within the area of the Mobile Hoist.

The environment in which the Mobile Hoist is situated in, whilst carrying out a transfer, is required to be on a flat surface with no steep inclines.

#### 3.2 Unboxing Hoist

When using a sharp knife, be careful not to damage the product.



This section will summarize the layout of the Hoist Packaging and what is included in the Box. It is recommended a knife is used for smoother unpacking of the Hoist. The Hoist is packed into a single box (750x450x400 mm) weighing approximately 45 kg.

Using a knife to open the box around the perimeter, the box should open, and the internal packaging must be removed to access the Hoist. It will include all the following components. It is recommended that the components are removed in the numerical order below.

1. Mast
2. Base
3. Fixings
4. Hand Control
5. Charging Lead
6. User Manual

#### 3.3 Hoist Assembly

- A. Carefully open the box and remove all loose parts and excess packaging from the box.



2-person lift recommended for the following points.

- B. Carefully holding onto the handle and boom, lift the Hoist components out of the box. Place carefully onto the floor.



Figure 3

C. With one person lifting from the front castors and one person lifting up from the rear castors, raise the base from the box and place the Hoist base on a flat surface and ensure the rear braked castors are locked.

D. Remove the Star Handle and bolt from the top of the base (as shown in Fig. 3).

E. Ensure all cables are clear from entrapment while fitting the base and mast together. (As shown in Fig. 4).

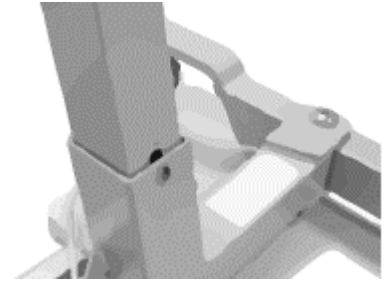


Figure 4



Please ensure both hands are on the handles when lifting the mast into position, possible risk of finger trap.

F. When the mast is fully engaged with the base, fit and fully tighten the Star Handle and Bolt. (As shown in Fig. 5 and 6).

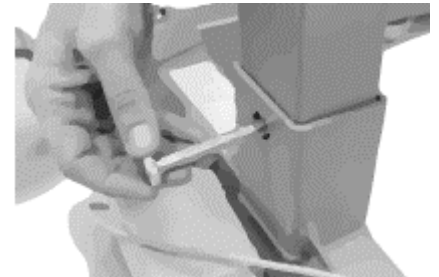


Figure 5



Ensure the mast is fully seated into the base and the Star Handle is in position and tight before using the Hoist.

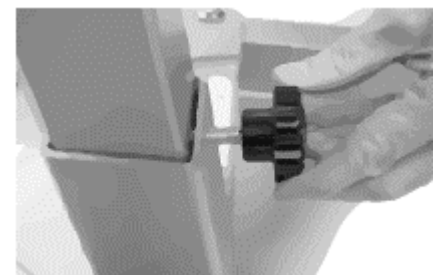


Figure 6

NOTE: To disassemble the Hoist into the two main sections (Mast/boom and Base) simply follow the previous steps in reverse.

### 3.4 Electrical Connections



Connect all the cables to the control box as shown in the pictures opposite.

A. Connect the lift actuator cable connector to the second port (marked No. 1) from the left side of the control box (as shown in Fig. 7).



Figure 7

- B. Connect the leg spreading actuator cable connector to the third port (marked No. 2 in Fig. 8)
- C. Connect the handset connector to the large port on the left side of the control box. A locator pin on the plug ensures correct orientation of the connector (as shown in Fig. 9).



Figure 8

- D. Connect the mains cable/power cord to the control box (as shown in Fig. 10).



Figure 9



Ensure that all cables are located and secure before operating the Mobile Hoist



Figure 10

## 4 Final Inspection

Before first operation of the Hoist:

- Confirm all cables are located and secure.
- Ensure the red emergency stop button on the control box is deactivated. (Rotate clockwise to release if required- Refer to section 5.4 for guidance)
- Press the up button on the handset and confirm the actuator raises the boom.
- Press the down button on the handset and confirm the actuator lowers the boom.
- Press the button on the handset to operate the opening of the legs and confirm the actuator moves the legs outwards.
- Press the button on the handset to operate the closing of the legs and confirm the actuator moves the legs inwards.
- Press the red emergency stop button on the control box and check that actuators do not operate until the button is reset. (See section 5.4 for guidance)
- Check the mechanical emergency lowering function works properly. (See section 5.5 for guidance)
- Check the rear castors brakes work properly.
- Check the battery pack is fully charged.

Your Hoist is now ready to use.

## 5 Operating instructions



The Hoist may be heavy for users and will need to be lifted with care, please operate the device with the use of the castors wherever possible to prevent any injury.

Appropriate training in lifting and handling procedures should be undergone by any person operating the Mobile Hoist, for their own and the client's safety and comfort. These instructions are designed to cover the method of using the Mobile Hoist.

### 5.1 Manoeuvring the Hoist

- A. To move the Hoist forward, hold onto the handle bar and push forward.
- B. Do not stand on the leg actuator, or use the leg actuator to push the Hoist (Fig. 11 and 12).
- C. When turning the Hoist, use both hands on the handle. Alternatively, it is possible to rotate the Hoist by applying the brake to a single rear castor and rotating the Hoist about the braked castor. This movement should be performed with a smooth, slow action to avoid swinging the patient unnecessarily.
- D. The Mobile Hoist has two rear castors with brakes.
- E. The rear castors can be braked for rotation (by applying a single brake), lateral movement, and parking. To apply the brake, press the brake pedal down with your foot (as shown in Fig. 13). To release the brake, press the raised pedal towards the wheel (as shown in Fig. 14).
- F. During lifting, the rear castors should remain locked to ensure that the Hoist will not move.



The castors should be locked if there is a risk of the Hoist driving into the patient. For example, when lifting the patient from the floor.



Figure 11



Figure 12



Figure 13



Figure 14

### 5.2 Raising and Lowering

The up and down movement of the boom on the Mobile Hoist is achieved by an electric actuator which is controlled by hand control. The hand control has two buttons with directional arrows up and down. The actuator stops automatically at the limit of travel in both directions.

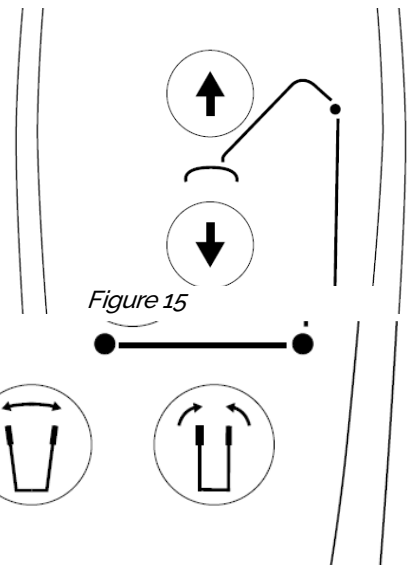


Figure 15

### 5.3 Open / Close Mobile Hoist Legs

The legs of the Mobile Hoist are opened/closed using the appropriate buttons on the hand control, see figure 16 for guidance. The legs' motion will be stopped whenever the hand control button is released. The legs can be opened to enable access around armchairs or wheel chairs. When relocating the Mobile Hoist, manoeuvring through narrow doorways and/or passages, the Mobile Hoist legs should be in the closed position.

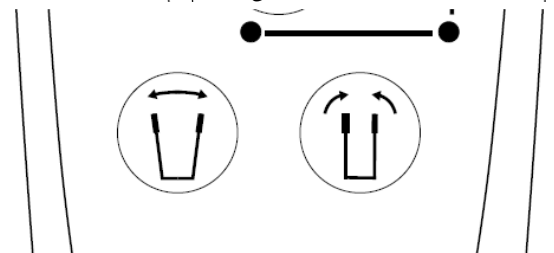


Figure 16

### 5.4 Emergency Stop Button

The Mobile Hoist is fitted with an Emergency Stop button.

Push the Emergency Stop button (as shown in Fig. 17) to cut all power to the Mobile Hoist.

To resume power, release the emergency stop button by turning in a clockwise direction. (Indicated by arrows on the Emergency Stop button as shown in Fig. 18)

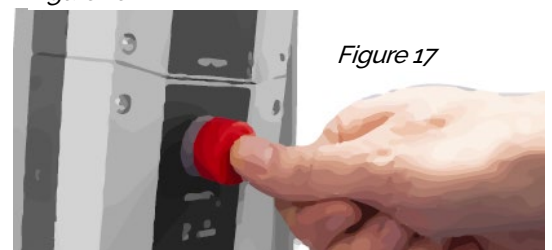


Figure 17

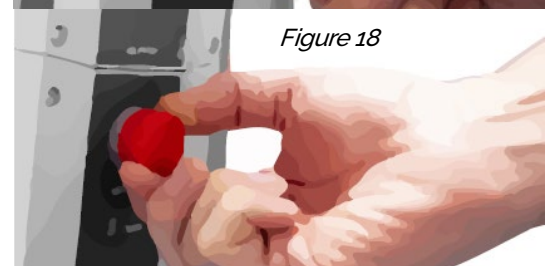


Figure 18

## 5.5 Emergency Lowering

### 5.5.1 Manual Emergency Lowering

In the case of power failure, it is possible to mechanically lower a patient suspended by the Mobile Hoist. Turn the manual lowering handle in clockwise direction (as shown in Fig. 19) to lower the boom until the boom reaches a safe position.



The manual emergency lowering system should be used only if the lowering procedures described in the previous section of the manual do not work. Should you have any concerns or questions contact your local authorised Smirthwaite Representative.



Figure 19



Do not use the Hoist after the manual lowering mechanism has been used. The lift must be reset by a qualified technician after use. Contact your local authorised Smirthwaite Service Provider.

### 5.5.2 Electrical Emergency Lowering

The Mobile Hoist can be lowered by pushing the emergency lowering button on the control box with a suitable object, such as a pen nib or pencil. (as shown in Fig. 20)



Figure 20

## 5.6 Handset Operations

The Hand Controls has 4 functions: Up and Down, this will raise and lower the Mobile Hoist, and Legs Open and Legs Close, these functions will open and close the legs.

Press down on each symbol to operate the desired function. It is not possible to use two functions at the same time. Once the Mobile Hoist has reached the extent of its travel in each direction, the actuator will automatically stop, allowing you to then choose the opposite direction.

The handset is attached to the control box via a flexible, coiled cable that is secured in place with a friction-fit plug. The coiled cable is designed to give the greatest number of options for carer positioning without having a trailing cable around the patient. The handset also incorporates a hook which gives the carer flexibility whilst moving/positioning the patient. Clear and easy to understand labelling of the buttons enable ease of use for the care giver.



Figure 21

## 5.7 Battery



The battery pack should never be stored for long periods of time without a regular charge.

The battery pack is protected in an encased unit located on top of the control box, on the rear of the product. The control box, below the battery, will inform the user when the battery is flat and requires charging, by an illuminated LED. An LED illuminate when the battery needs recharging. Complete the lift and place the battery on charge.

### 5.7.1 Charging the Battery Pack

The battery pack can be recharged via mains lead (terminated with a figure of eight plug)

- A. Fit the mains lead figure of eight plug into charger link cable (see Fig. 22).
- B. Plug the 3-pin mains plug into a suitable mains outlet and switch the mains supply on.
- C. Charging is automatic and will normally take eight to twelve hours to fully charge (from completely discharged state). You cannot overcharge the battery pack if left for longer periods of time.
- D. To return the Hoist to use, switch off the mains supply. Remove the plug from the socket and clip onto the Mast.
- E. The Hoist is now ready for use.

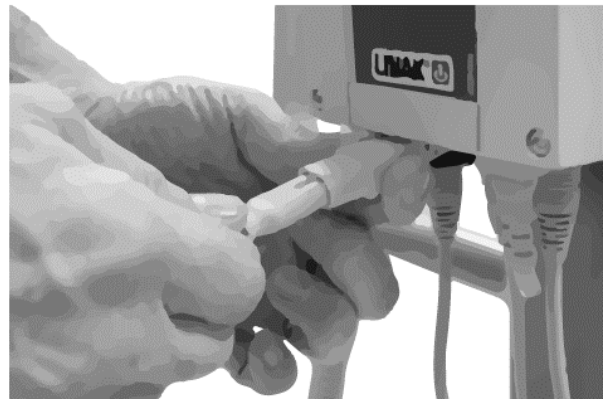


Figure 22

### 5.8 Slings

The mobile hoist is designed to be used in combination with a Sling to perform its intended use. The sections below include the correct and safe manor of attaching/detaching the Slings as well as a list of approved slings for use.

#### 5.8.1 Sling Attachment/Detachment

Sling loops should be attached as follows:

1. Put the required sling loop onto your finger and thumb and then using the same finger or thumb, pull back the spring locking mechanism on the correct hook on the correct side of the carry bar (Figure 23).
2. Slide the sling loop from your finger and thumb over the edge of the hook (Figure 24).
3. After positioning the loop below the locking mechanism (Figure 25) release the spring locking mechanism to secure the sling loop (Figure 26).

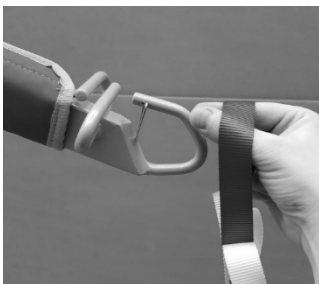


Figure 23



Figure 24

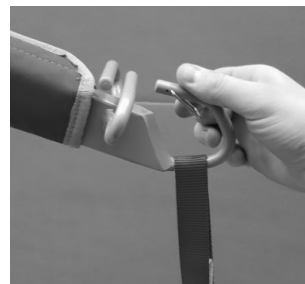


Figure 25

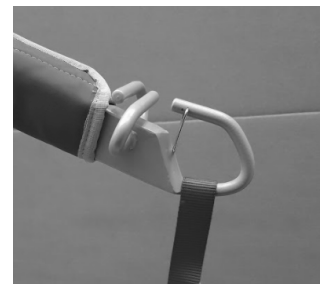


Figure 26

To remove the sling, simply reverse the process – pull back on the spring locking mechanism, lift the loop out of the hook and release the locking mechanism.



Figure 27



Figure 28

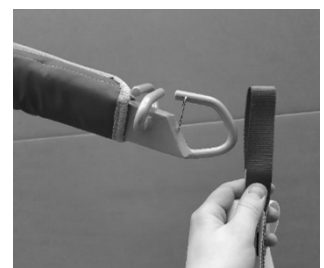


Figure 29

The same process of attaching and detaching the Sling is relevant for the QRS (Quick Release System) Carry Bar.

### 5.8.2 Compatible Slings

Below is a list of slings that are recommended and have been approved by the manufacturer for use in combination with the product.

The manufacturer recommends the use of the Mackworth Healthcare manufactured sling range (type 'BF' applied part) to be utilised with the Smirthwaite 130 Mobile Hoist. It is at the user's discretion to use alternative supplied product. In utilising another manufacturer's sling, checks must first be made to ensure the sling is safe to use and meets the requirements of BS EN ISO 10535 before its use.

The slings with a safe working load of 130 kg that can be used with the Mobile Hoist are shown below in the Table, complete with product codes. For all components, the lowest maximum safe working load must always be adhered to.

Size	Smirthwaite Sling Range - Product Material and Code			
	Polyester – Blue	Mesh – Black	Mesh – Pink	Mesh – Aqua Blue
<b>Smirthwaite Universal Slings</b>				
Junior	n/a	3501	3503	3505
Child	n/a	3502	3504	3606
<b>Smirthwaite Comfort Recline Slings</b>				
Junior	n/a	3507	3509	3511
Child	n/a	3508	3510	3512
<b>Smirthwaite Dual Access Toileting Slings</b>				
Junior	3513	n/a	n/a	n/a
Child	3514	n/a	n/a	n/a

Table 4

## 6 Detachable Parts

Detachable parts that are included with the product consist of the Battery. Below are the instructions for attaching and detaching the Battery.

### 6.1 Attaching/Detaching the Battery

The attachment and detachment of the Battery can be completed safely by following the following procedure:

#### Attach

1. Grab Hold of the Battery from the top position as shown in figure 30 and place your fingers onto the latch.
2. Press the latch to release the Battery and lift the Battery from its fixing. (Figure 31)

#### Detach

1. Place the Battery into the fixing location and push it forward into placement, the Battery will "click" into place.

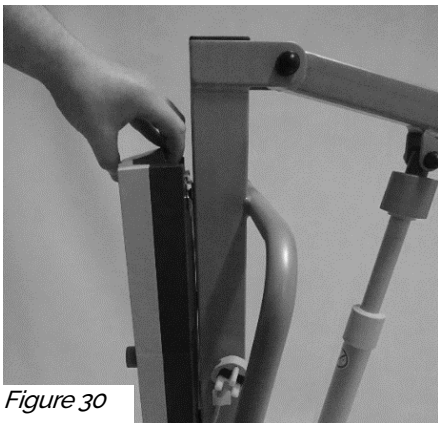


Figure 30

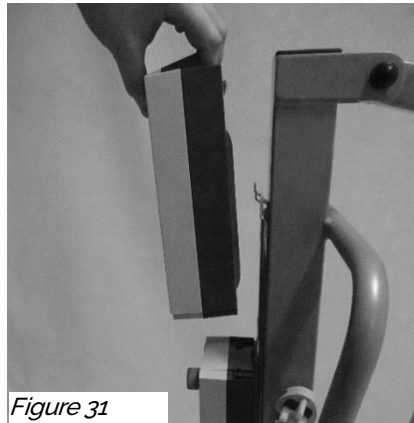


Figure 31

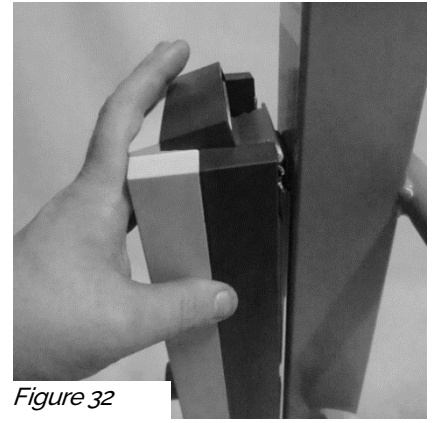


Figure 32



## 7 Technical Specification

### 7.1 Mobile Hoist Dimensions

All dimensions below are shown in millimetres.

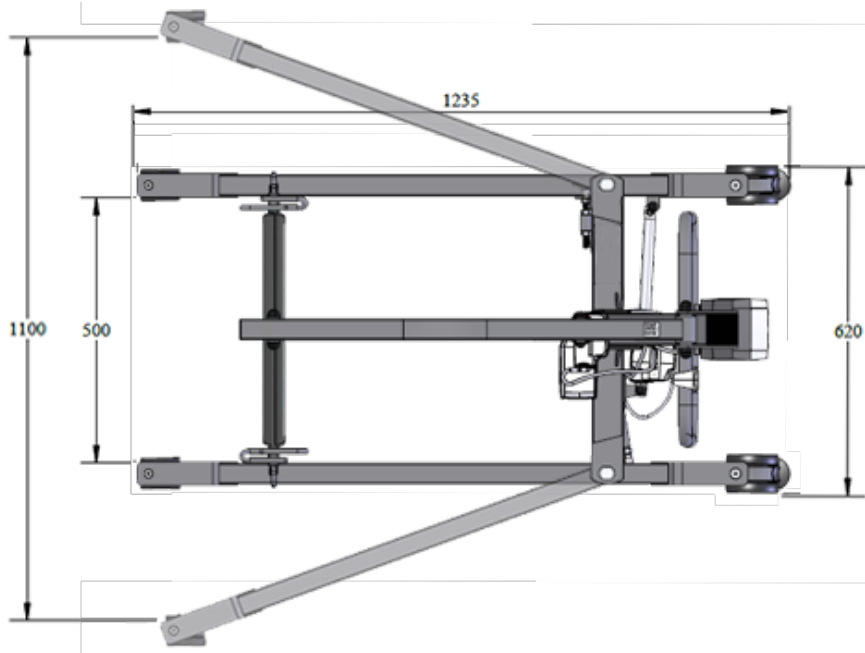


Figure 33

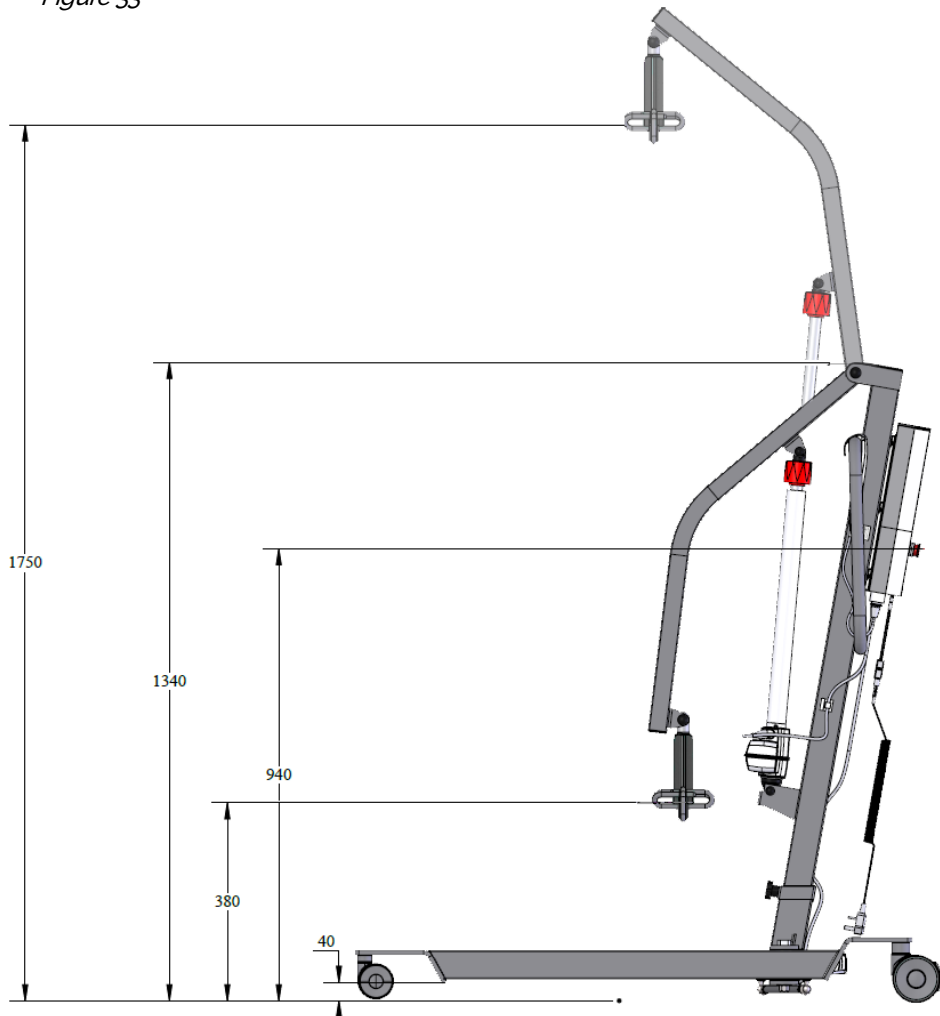


Figure 34

## 7.2 Specifications

Dimensions		
Turning Circle	1,010 mm	
Overall Height	2,010 mm	
Overall Width	625 mm	
Ground Clearance	15 mm	
Front and Rear Castors Size	75 mm and 100 mm	
Weights:		
Safe Working Load (SWL)	130 kg	
Full Product	40 kg	
Base Assembly	18.5 kg	
	21.5 kg	
Operational Forces:		
Moving Force (at SWL)	83 N	
Moving Force (with 0 kg)	16 N	
Operation of the Brake	35 N	
Handset	4.5 N	
E-Stop Button	12 N	
Carry Bar Rotation (at SWL)	18 N	
Carry Bar Rotation (0 kg)	< 0.5 N	
Sound Levels	Loaded dB(a)	Unloaded dB(a)
Lifting	41.7	38.5
Lowering	40.9	30.5

Table 5

## 7.3 Electrical Specifications

Battery type:	2 x 12-volt Rechargeable sealed lead acid.
Battery capacity:	24 V DC, 1 x 2.9 Ah
Charger rated input:	230VAC 50/60Hz
Charger rated output:	27.4/29.0 VDC @ 0.8A

### Electric Shock Protection

Charger:	Class II *Lift - internal power source
Degree of shock protection:	Type B *Lift - internal power source
Duty cycle:	10% Use – 90% Rest (90 seconds use - 810 seconds rest)
IP rating, control box:	IPX4
IP rating, battery:	IPX5
IP rating, handset:	IPX4

## 7.4 Expected Product Lifetime

10 years. depending on usage and compliance to maintenance, servicing and inspection.

## 7.5 Standards Applied

The standards that have been applied to the device are as follows:

- EN 10535:2021  
Hoists for the transfer of disabled persons. Requirement and test methods

## 8 Environmental - Storage and Operating Conditions

The Mobile Hoist is intended for internal use within normal environmental conditions.

It is not intended to be used in environments where there are rapid changes in the environmental temperature and humidity during use.

### 8.1 Normal Operating Conditions

+5°C to +40°C (41°F to 104°F) at a relative humidity between 15% to 90% RH, non-condensing but not requiring a water vapour pressure greater than 50hPa and atmospheric pressure between 795hPa to 1060hPa.

### 8.2 Shipping and Storage Conditions

-25°C to +5°C (-13°F to 41°F) with any humidity level.

+5°C to +35°C (41°F to 95°F) at a relative humidity up to 90%.

+35°C to 70°C (95°F to 158°F) non-condensing at a water vapour pressure up to 50hPa.

## 9 Disposal

When the Hoist has completed its life cycle and can no longer perform to its intended use safely the Hoist must be decommissioned by an approved Service Engineer. The following specifies the importance of correct disposal procedure including local laws and being environmentally friendly.

Please observe the local laws on recycling and respect the current laws for disposal within the community the device is being used within. If there is any uncertainty of the below guidelines, contact your local authorities to determine the proper method of disposal of potentially biohazardous parts and accessories.

The relevant components utilised in the manufacture of the device that can be recycled at the end of the device life are:

Fully recyclables:	Consideration when Recycling:
Steel frame (Mast, Boom, Base, Legs)	Carry Bar Cover
Castors	Leg Actuator
Initial packaging of the device (cardboard)	Lift Actuator
Metallic fixing – screws etc.	Handset + Cables
Carry Bar	Control Box
	Battery

Table 6



The product may be contaminated and must be disinfected before recycling or disposal. See section 11.3 'Cleaning' for details of how to do this.

## 10 Fault Finding

If a problem arises with the Mobile Hoist, the Table below will hopefully assist in determining the fault and what actions you can take. If the fault cannot be found or the fault is found and the action guide does not provide a fix (e.g. – a damaged wire would need replacement), contact your local Smirthwaite authorised dealer immediately, a service engineer will be required to repair the Hoist. Contact details can be found on the last page of this manual.

Fault	Action
Hoist doesn't turn on	<ul style="list-style-type: none"> <li>• Check the E-Stop button on the control box has not been activated.</li> <li>• Check the Handset is correctly connected to the correct control box port.</li> <li>• Check the Handset lead is not damaged, e.g. cuts and breaks.</li> <li>• Check to see if Hoist battery is out of charge and requires charging.</li> <li>• Check the Battery is located correctly on top of the control box.</li> <li>• Check for any damage to the battery terminals, e.g. burns and breaks.</li> <li>• Perform a visual check on the Control box for any damage.</li> </ul>
Hoist doesn't charge	<ul style="list-style-type: none"> <li>• Check the Charger plug is turned on at the power supply.</li> <li>• Check that the Charger Lead is connected correctly to the Control Box</li> <li>• Check charging lead for damage, e.g. cuts and breaks.</li> <li>• Check that the Battery is connected properly with the Control Box.</li> <li>• Inspect the Battery terminals for any damage, e.g. burns and breaks.</li> <li>• Inspect the Control Box terminals for any damage, e.g. burns and breaks</li> </ul>
Hoist doesn't lift	<ul style="list-style-type: none"> <li>• Check if the Hoist is plugged into Charge. (Hoist will not raise and lower while on charge)</li> <li>• Check that the Lift Actuator to Control Box cable is connected properly between the two ports.</li> <li>• Check the Lift Actuator to Control Box cable for damage, e.g. cuts and breaks.</li> <li>• Inspect the Lift Actuator for any signs of damage which could affect its function, including the Port. E.g. Large Cracks and breaks, electrical burns.</li> <li>• Inspect the Control Box Port for any damage. E.g. electrical burns, breaks.</li> </ul>
Hoist Leg Actuator is not responding	<ul style="list-style-type: none"> <li>• Check Cable between the Control Box and the Leg Actuator is connected correctly.</li> <li>• Check for Cable damage between the Control Box and Leg Actuator cable.</li> <li>• Inspect the Leg Actuator for any damage, including the cable port. E.g. large cracks and electrical burns.</li> <li>• Inspect the Control Box Leg Actuator Cable Port for any damage. E.g. cracks and electrical burns.</li> <li>• If there is no indication of any power while commanding the Powered Legs, Handset buttons could be damaged.</li> </ul>
Hoist has power but does not respond to handset commands	<ul style="list-style-type: none"> <li>• Check the Handset is correctly connected to the Control Box.</li> <li>• Check that the Lift Actuator and Leg Actuator Cables are both connected to the Control Box.</li> <li>• Check the Handset cable is not damaged, e.g. cuts and breaks.</li> </ul>

	<ul style="list-style-type: none"> <li>• Check the Lift Actuator and Leg Actuator Cables for damage, e.g. cuts and breaks</li> <li>• Check the Control Box Handset Port for any damage. E.g. cracks and electrical burns.</li> </ul>
--	--

Table 7

## 11 General Inspection, Maintenance and Cleaning

### 11.1 Service



No service is to be carried out on the Mobile Hoist, while transferring a person to reduce the risk of injury.

Service must be completed by a Smirthwaite authorised Service Engineer.

Do not attempt to service the product yourself, or warranty is void.

To ensure the safety and continued good function of your Hoist, routine service must be performed on your Mobile Hoist.

Service should be completed by a Smirthwaite approved service engineer every 6 months to ensure the products required standard is maintained. The service history of the product should be documented each service in the Service Log at the back of this User Manual.



When the Mobile Hoist is serviced, the 6 month service checklist must be completed.

Service Manual Document Number: 995151.

Spare Parts Manual Document Number 992151.

The Service must be completed every 6 months after installation of the Hoist.

Contact your local authorised Smirthwaite dealer if you:

- Need more information.
- Have any questions about the use or service of your Mobile Hoist.
- Notice any change in the performance.
- Want to report an unexpected occurrence.
- Want to arrange a service.
- Need to ascertain necessary information for replacement parts and components.

Contact details of your local Smirthwaite dealer are shown on the last page of this manual.

## 11.2 Inspection

Inspection is to be completed prior to each use by the user of the Mobile Hoist.



Should any of the components in the table below fail the inspection, DO NOT use the Mobile Hoist. Contact your local authorised dealer for service – contact details are on the last page of this manual.

Ensure all component inspections in the Table below are completed prior to each use of the Hoist.

### Check List before Use

Component	Service/Inspection required
Generic	Visual inspection of the external of the Mobile Hoist. Significant damage that may affect the function of the Mobile Hoist along with a clear safety hazard is unacceptable.
	Check the Labelling on the Mobile Hoist to ensure they are all still legible, this includes the Serial Number and other important markings. If labels are not legible, then contact your local authorised dealer immediately.
	Check all main nuts and bolts to see if they are loose, If they are not tight or you have concerns, then contact your local authorised dealer immediately.
Certification	An authorised/competent service company or person will issue a test certificate after satisfactory completion of the inspection. The certificate will be valid for 6 months.
Battery Pack	The battery pack should not require maintenance other than the regular charging as detailed in the charging instructions.
Emergency Stop Button	Check the emergency stop button functionality
Manual Emergency Lower	Check the manual emergency lower functionality.
Actuator	The actuator should not require maintenance other than checking for correct operation, listening for unusual noise and checking for any damage.
Leg Actuator	The actuator should not require maintenance other than checking for correct operation, listening for unusual noise and checking for any damage.
Castors	Check the brake functionality on each rear castor. Check all castor fixing points. Check that each castor runs free and rotates easily. Remove any build-up of hair, fluff, dust etc.
Leg Pivot Points	Check the smooth opening and closing of the legs.
Control Box	Inspect all male plugs and female sockets for correct fitting. Inspect the hand control functionality.
Mast	Ensure the mast fully engages into the base housing. Check the operation of the mast locking hand wheel. Check the actuator mounting brackets for excessive wear.
Boom	Check the attachment of the boom to the mast, ensure all fixing points are secure and free from wear.
Carry Bar	Check the carry bar rotates and swings freely. Check the central pivot bolt and nylon lock nut for excessive wear. Check the fixing point for excessive wear and inspect the sling hooks for any damage, sharp edges and excessive wear.
	Inspect Carry Bar wear washer, ensure the washer has not fully worn, if so, replacement is required.

Table 8

### 11.3 Cleaning

Please follow the cleaning guidelines below on cleaning and disinfecting the Hoist.

#### 11.3.1 General Cleaning

It is recommended to clean the Mobile Hoist and accessories before the use by a different patient, reducing the risk of cross-contamination.



The exterior of the Mobile Hoist can be cleaned using a damp soapy cloth for general cleaning duties. Please ensure the cloth is damp and not wet. Ensure the exterior of the device is dry after cleaning. Dry using a clean dry cloth.

#### 11.3.2 Disinfecting (if necessary)

Should the Mobile Hoist require a more thorough clean, the use of the Actichlor™ disinfectant product (which is widely available in tablet form and used throughout the health care industry) is recommended.



Follow the manufacturer's safety instructions for the use of the cleaning product before use to ensure safe use for the operator and the patient.

Ensure the cloth is damp before the cleaning process.

Application is through a clean damp cloth applied to wipe the device down. Use in the following dilutions to ensure an effective clean:

- Actichlor™ dissolvable chlorine tablets provide a concentration of 1000 ppm of available chlorine (0.1%) per 1 tablet
- 1 tablet (1.7g formed tablet (x1)) will create a virucidal solution, diluted in 1 litre of water to provide effective means to clean a "dirty" device. This is also ideal for use after an outbreak of the Norovirus/winter vomiting and can be used as a precaution against C.Diff. It is effective against viruses, bacteria, spores, yeasts and moulds.
- The contact time against the outer components of the device should be for 5 minutes to prevent any virucidal infections without a degradation to the functionality of the device. 5 minutes is a recommended contact time. The device can withstand a longer contact period but the 5 minute recommendation as a minimum must be followed to provide an effective cleaning regime.
- Blood spills should be dealt with by an increased concentration of the solution – please refer to the instructions on the manufacturers product labelling.

Dilution chart					
Product used as	Device condition	Concentration (ppm)	Dilution qty* (l)	Tablets per 1l (0.26gal)	Contact time (minutes)
Bactericidal	Clean	200	5 (1.32gal)	1	1
	Dirty	1000	1 (0.26gal)	1	5
Yeasticidal	Clean	200	5 (1.32gal)	1	1
	Dirty	1000	1 (0.26gal)	1	5
Fungicidal	Clean	2000	1 (0.26gal)	2	15
	Dirty	5000	1 (0.26gal)	5	15
Mycrobactericidal	Clean	1000	1 (0.26gal)	1	15
	Dirty	5000	1 (0.26gal)	5	15
Virucidal	Clean	500	2 (0.53gal)	1	5
	Dirty	1000	1 (0.26gal)	1	5
Sporcidal (C.Diff)	Clean	1000	1 (0.26gal)	1	10
	-	-	-	-	-
Sporcidal	Clean	5000	1 (0.26gal)	5	10
	-	-	-	-	-

\* Dilution is made with water. DO NOT dilute within any other medium.

- When diluted in water, one tablet gives 1000ppm of available chlorine.
- The concentration of the solution depends upon whether the object being cleaned is noticeably dirty (indicated in the table by "Device condition").

Table 9

Handling and storage safety precautions when using this cleaning agent:

Advice on Safe Handling



- Avoid contact with skin and eyes.
- Do not breathe dust/fumes/gas/mist/vapours/spray.
- Use only with adequate ventilation.
- Wash hands thoroughly after handling.
- Mixing this product with acid or ammonia releases chlorine gas.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Conditions for Safe Storage



- Keep out of reach of children.
- Keep container tightly closed.
- Store in suitable labelled containers.
- Storage temperature: 0-25°C (32-77°F).

Individual Protective Measures

Hand protection: Gloves

Dissolve

Dissolve in cold water – With no agitation, 1 tablet will take approximately 10 minutes to fully dissolve in the water used.

The information above has been extracted from the Actichlor™ MSDS (Manufacturers Safety Data Sheet). For a full review of the data please follow the link below:

<http://www.nhsggc.org.uk/media/236215/msds-actichlor-plus.pdf>



## 12 Warranty

This guarantee does not affect or in any way limit your Statutory Rights.

1. The manufacturer guarantees this product, against failure within the period of 5 years from the date of purchase by virtue of defects in material or workmanship.
2. The liability of the manufacturer under terms of this guarantee shall be limited to the replacement or the defective part(s) to the sales distributor, dealer, agent, person, or entity which purchased the equipment from the manufacturer. In no event shall the manufacturer incur liability for any consequential or unforeseeable losses.
3. This equipment guarantee shall be void if the equipment is not serviced by Smirthwaite or its authorised agents, in accordance with manufacturer's recommendations, or if any unauthorised persons carry out work on the equipment.
4. This guarantee does not apply to failure attributable to normal wear and tear, damage by natural forces, user neglect or misuse or to deliberate destruction.
5. Do not attempt to service the product yourself, or warranty is void.

### 13 Service Record History

Complete this section after each service, repair inspection and/or maintenance.

Date:	Time:
Service Type: Service Inspection <input type="checkbox"/> Repair <input type="checkbox"/> Other <input type="checkbox"/>	
Completed By: ..... (printed name) ..... (signature)	
Company: .....	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes <input type="checkbox"/> No <input type="checkbox"/> (if no explain in actions above)	
Date:	Time:
Service Type: Service Inspection <input type="checkbox"/> Repair <input type="checkbox"/> Other <input type="checkbox"/>	
Completed By: ..... (printed name) ..... (signature)	
Company: .....	
Remarks & Actions Taken:	
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Company: .....	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes <input type="checkbox"/> No <input type="checkbox"/> (if no explain in actions above)	

**User notes:**

**User notes:**

**User notes:**

**Dealer/service contact details:****Manufacturer contact details:****Prism Medical UK**

Unit 1, Tir Llwyd Industrial Estate,  
St Asaph Avenue, Kinmel Bay,  
Conwy, United Kingdom, LL18 5JZ

Telephone Number: 01924 840100

**Disclaimer**

While every effort has been made to ensure the accuracy of information contained in this user manual, no liability can be accepted by Smirthwaite for any errors or omissions. Smirthwaite operates a policy of continuous improvement. Specifications and other data are subject to change without notice.

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