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1 INTRODUCTION, PURPOSE & GENERAL SAFETY

The T400 Series Medical Treatment Chair has been designed and manufactured with the intention of being used for medical procedures. These include blood collection, day recovery, renal dialysis, chemotherapy and similar procedures that require comfortable and safe seating.

The patient should, at all times, be under the supervision of trained healthcare professionals who have been instructed by the manufacturer in the safe operation of the chair. The chair should never be used in a manner for which it was not intended.

The chair is designed so that the occupant will be seated in a typical seated position - hips moved back so that the occupant’s spine is against the backrest, with legs outstretched and supported by the seat and leg rest. The weight of the occupant must not exceed 130 kg.

The chair is fitted with castors, which are specifically used to aid cleaning and/or positioning of the chair within the room. The chair should never be used to transport other items. Ensure that the backrest is fully elevated before moving the chair.

It is the staff members’ responsibility to ensure the patient is briefed on the safe operation of the chair. If the staff member believes the patient cannot safely operate the chair, the staff member should remove the hand control from the patient’s reach.

If CPR legs are fitted: In an emergency, the chair can be lowered to the Trendelenburg position where CPR may be performed. It is the staff members’ responsibility to ensure that the chair is in the correct position for CPR and that the resuscitation method used is in line with hospital policy. In addition, staff should ensure that the chair is adequate for those resuscitation methods, in line with hospital policy.

In general, no responsibility or liability can be accepted by the manufacturer for failure to adhere to the guidelines and instructions contained in this manual.
2 OPERATING THE MEDICAL TREATMENT CHAIR

Model specific features: T400 – Standard chair
T450 – Standard chair with removable and adjustable arms

1. Ensure the brakes are locked when the chair is stationary, and positioned to give minimum interference to staff.

2. The seat-footrest and back may be adjusted to give maximum comfort.

3. Fold out tray arm (if fitted) is accessed by opening the upper section outwards.

4. The patient has an individual hand control. This allows operation of the seat/footrest and backrest position. Allow the patient to position themselves for maximum comfort, and to regularly alter this position.

5. To allow the patient to rise from the chair, return it to the upright position.

6. Ensure procedural equipment is set up to avoid tubing and cords becoming trapped in the moving parts of the chair (e.g. arm rests). DISCONNECT procedural equipment prior to removing patient from chair.

7. The power cord should always be left in the power supply socket and switched on. The backup batteries (if fitted) will recharge automatically and slow to trickle charge when full.

For T450 model only:

1. The gas spring-assisted adjustable height armrests are positioned by loosening the lever and allowing the armrest to comfortably support the patients' arm. When in the desired position, retighten the lever.

2. The swivel armrest (if fitted) is adjusted by loosening the knob under the arm, swivelling the armrest to the required position and retightening the knob.

3. The armrests may be lowered flat to the seat level to allow side transfer of patient. Raise or lower the seat height to prevent unnecessary bending or lifting by staff members.
3 INSTALLING THE MEDICAL TREATMENT CHAIR

All chairs may be installed by the manufacturer, by staff approved by the manufacturer, by the manufacturer’s agent, or other qualified persons approved by the manufacturer (e.g. the hospital’s technician).

At all times, when positioning the chair, care should be taken to ensure that no part of the chair comes into contact with any equipment or structures, particularly during emergency procedures.

It is important to ensure that any staff members who are operating the chair have been trained by the manufacturer or its agent prior to use.

The installation procedure is as follows:
1. Position the chair.
2. Remove any temporary ties or packaging.
3. Plug the power cord to an approved power supply for the relevant country as indicated by the label.
4. Test the chair by taking it through its complete range of movements.

The power cord should be left in the power supply and switched on.

When moving the chairs within the building, always leave the temporary armrest covers on until the chairs are in their intended operating position.

Note: Transport damage, if any, should be inspected and reported immediately after delivery. No claims for transport damage will be accepted 7 days after delivery date.

3.1 WARNINGS AND PRECAUTIONS

The following table shows potential hazards that have been identified and the steps that should be taken to avoid them:

<table>
<thead>
<tr>
<th>IDENTIFIED HAZARD</th>
<th>CAUSE</th>
<th>PREVENTATIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cushion support frame wear and tear or failure</td>
<td>Operator handling error or misuse. Incorrect cleaning of upholstery</td>
<td>• Service regularly. • Train all operators. • Check chairs regularly for upholstery cuts, cracks or damage. Inspect the frame for deformities or cracks.</td>
</tr>
<tr>
<td>Chair stops responding to controls</td>
<td>Power cord damage, motor stops working, controls stop working.</td>
<td>• Don’t push chair over power cords. • Don’t place stress on power cords. • Only use approved parts and motors. • Use only as directed in this instruction manual.</td>
</tr>
<tr>
<td>Contamination on upholstery</td>
<td>Chair not cleaned effectively between patients, damaged upholstery.</td>
<td>• Take care not to damage upholstery. • Damaged upholstery should be repaired or replaced immediately. • Clean and decontaminate chair with appropriate agents and procedures as described in this instruction manual (section 4.2).</td>
</tr>
<tr>
<td>Instruction manual not read or understood.</td>
<td>Staff turnover, new staff.</td>
<td>• Provide training for all new staff using the chair. • We recommend that this operation manual stays with the chair.</td>
</tr>
</tbody>
</table>
3.2 BATTERY BACKUP (if provided)

The battery should only be used in the event of no power supply and should not be the main source of power. As such, the power cord should be left in the power supply and switched on while the chair is in use. The battery must be charged for at least 12 hours before it can be used. The battery will automatically trickle charge until fully charged and should not be unplugged. Should the battery fail to charge, please contact Fresenius Medical Care or its authorised agent. The battery is not user-replaceable. The chair must be connected to the power supply to recharge at least every 30 days.

3.3 HAND CONTROL

Each T400 Series Medical Treatment Chair comes with one hand control.

Allow the patient to position themselves for maximum comfort, and to regularly alter this position.

For an explanation of symbols on the hand control, see section 7.2.7.

3.3.1 Hand Control Diagram

3.3.2 Display Functions

Indicator Light 1
- Will light up when a key is pressed.

Power Indicator (LED)
- This will always be lit when mains/battery power is available.
- When only battery power is being used (no mains power available), the LED will only light up when a key is pressed.
- When battery is charging, the LED flashes yellow. When it is fully charged it will light up constantly.
4 MAINTENANCE

4.1 INSPECTION & SERVICING

Routine servicing, at least annually, is highly recommended in order to maintain the safe operation of the chair. A regular inspection at least once a month is recommended to ensure that each chair operates safely and as intended by the manufacturer. Any faults or warranty claims should be reported immediately to the manufacturer or its agent. No liability can be accepted by the manufacturer if the chair is operated whilst faulty and further damage occurs.

Areas to be checked include:
- Motors operate smoothly through cycle
- No broken welds
- Actuators connected properly
- Upholstery not worn or torn

4.2 CLEANING

Cleaning should conform to the standards set by the hospital. All materials used in the manufacture of the chairs have been found to be suitable to be cleaned with standard hospital cleaning products, however to ensure suitability, a test should first be carried out on an inconspicuous piece of material, or a sample provided by the manufacturer.

The following should be used as a guideline only and no claims will be accepted for damage from following these guidelines:

RECOMMENDED CLEANING PROCEDURE FOR MEDICAL TREATMENT CHAIRS

The following recommended procedure should only be used if it generally conforms to Infection Control Guidelines of the hospital.

Step 1
Bodily fluids may carry infectious material. Ensure that protective garments and gloves are worn prior to commencing the cleaning operation.

Step 2
Remove as much of the spilled liquid as possible using a sponge-type material with a dabbing motion.

Step 3
Make up a diluted bleach solution (e.g. Miltons) of 1 part bleach to 30 parts water.

Step 4
First test the solution on a small area of the vinyl. Then, pour onto spill area and wipe with a mopping action.

Step 5
Use a general purpose detergent cleaner with warm water on a cloth for a final clean.

CAUTIONARY NOTES ABOUT BLEACH:

1. **Never allow bleach to mix with ammonia.** If you have recently used ammonia on or near the area you are about to clean, do not use bleach.
2. Always take care when working with bleach and keep it away from children. Bleach is not only poisonous and corrosive, but it can damage clothes and materials.
3. **Never use undiluted bleach.**
4.3 FABRIC STANDARDS

Unless otherwise stated, standard upholstery fabrics used on these chairs conform to the following Australian Standards:
- Flame Retardant tested to AS1530.3*
- Cigarette Burn test AS 37441.1*
- UV stabilised AS1441.1*

*NOTE: This is for Fresenius Medical Care -supplied fabric. Customer-specific fabric may not meet these standards.

4.4 TROUBLE-SHOOTING

In the event the chair fails to operate correctly please take the following steps prior to contacting Fresenius Medical Care or its authorized agent.

1. Check the power point is active.

2. Check that the power cord is not damaged or worn. Check that the chair is plugged in and switched on correctly.

3. Ensure that the batteries (if fitted) have been on charge for an overnight period at a minimum.

4. Check that the connections into the control box have not been dislodged, by pushing the plugs in.

5. Ensure there are no nicks or cuts in the hand control or actuator cables.

6. Determine what is not operating by checking the footrest motor (horizontally mounted under the seat) and the back motor (mounted under the seat).

7. Take note of the serial number (SN) of the chair. This can be found on the Type Label attached to the chair. An example of the label is in section 7.2.6.

8. If you are unsure about any aspect of the above steps, please contact Fresenius Medical Care or its authorized agent at the contact details provided on Page 8 of this manual.
5  ARRANGING A SERVICE

In the event that the chair fails to operate correctly or to arrange a service please contact your local representative or Fresenius Medical Care Office.

**Note:** Please quote the chair serial number (SN) which can be found on the Type Label located at the rear of the chair. An example of the Type Label can be found in section 7.2.6.

**CONTACT INFORMATION**

*DESIGNER / MANUFACTURER / SERVICE CENTRE:*

![Fresenius Medical Care logo]

FRESENIUS MEDICAL CARE SEATING (AUSTRALIA) PTY. LTD.
786 Stud Road
SCORESBY
VICTORIA 3179
AUSTRALIA

SERVICE TEL:  +61 (0) 3 9780 9509
SALES TEL:  +61 (0) 3 9780 9500
FAX:  +61 (0) 3 9764 8800
ABN:  84 004 658 495

*AGENT / DISTRIBUTOR:*

<agent/distributor insert stamp here>
6  WARRANTY INFORMATION

The following information outlines the warranty and Conditions of Sale for the Medical Treatment Chair:

1. Fresenius Medical Care will repair or replace, at its discretion, any component or assembly, which exhibits failure or undue wear when subjected to normal use, and/or used in the manner which was intended at the time of sale.

2. The warranty is limited to the original purchaser at the original delivery address.

3. When sold by a reseller, this warranty covers costs at the premises of the reseller, and if required in approved situations, transport costs from the reseller to and from Melbourne, or to a third party specified by Fresenius Medical Care.

4. Use of non-recommended cleaning agents may void the warranty.

5. The T400 Series Medical Treatment Chair is covered under a 12 month warranty.

6. T400 Series Medical Treatment Chairs are not covered by warranty if used outdoors.

7. The use of unauthorised labour will void the warranty. Contact Fresenius Medical Care prior to commencing work for approval.

If you are unsure about any aspect of this warranty, please contact Fresenius Medical Care at the number given on Page 8 of this manual.

If you need to arrange a service, please see the instructions in section 5 of this manual.
7 PHYSICAL DESCRIPTION

7.1 DESCRIPTION OF DEVICE

T400 Medical Treatment Chair consists of:

- Electrically powered chair with
  - two (2) actuators
  - one (1) hand control
  - adjustable neckrest
  - four (4) individually locking castors
  - legrest

7.2 TECHNICAL SPECIFICATIONS

7.2.1 Dimensions, Weight & Capacity

Dimensions
- Height: 115 cm
- Width: 83 cm
- Length: 90 cm

Weight 70 kg
Capacity 130 kg

7.2.2 Electrical Safety

Classification according to IEC 60601:1-1:1988

Degree of protection against electric shock Type B

Control Box Specifications
- Degree of protection against ingress of solids/liquids IP44
- Battery Capacity 1.2 AH, 24 V
- Mains voltage 110V~ or 240V~, 50 or 60 Hz

Hand Control Specifications
- Degree of protection against ingress of solids/liquids IP66

Actuators Specifications
- Degree of protection against ingress of solids/liquids IP66

7.2.3 Electrical Supply

Input voltage 110 V~ or 240 V~
Nominal frequency 50 or 60 Hz
Battery type Lead Gel battery
Capacity 1.2 Ah
Output voltage 24 V DC

7.2.4 Operating Conditions

Temperature range 5°C – 40°C
Relative humidity 20- 90 %

7.2.5 Transport & Storage Conditions

Temperature range 5°C – 40°C
Relative humidity 20- 90 %
7.2.6 Type Label

Fresenius Medical Care
MEDICAL TREATMENT CHAIR

SN 400Txxxxxxxxx Model: T400

Fresenius Medical Care South Asia Pacific Pty. Ltd.
Level 17, 61 Lavender Street Milsons Point NSW 2061 Australia

No user serviceable parts
Power Supply: 230 – 240 V ~ 50/60 Hz 3 A
10% Duty Cycle 2 min. ON / 18 min. OFF

For Export Only

Fresenius Medical Care
MEDICAL TREATMENT CHAIR

SN 400Txxxxxxxxx Model: T400

Fresenius Medical Care South Asia Pacific Pty. Ltd.
Level 17, 61 Lavender Street Milsons Point NSW 2061 Australia

No user serviceable parts
Power Supply: 110 – 120 V ~ 60 Hz 3 A
10% Duty Cycle 2 min. ON / 18 min. OFF

7.2.7 Key to Symbols

<table>
<thead>
<tr>
<th>SN</th>
<th>Serial Number</th>
<th>CE mark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Manufacturer</td>
<td>For indoor use only</td>
</tr>
<tr>
<td></td>
<td>Degree of protection against electrical shock: Type B</td>
<td>ATTENTION: Consult accompanying documents</td>
</tr>
</tbody>
</table>

Hand Control Symbols

<table>
<thead>
<tr>
<th></th>
<th>Backrest adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Footrest adjustment</td>
</tr>
<tr>
<td></td>
<td>Moves indicated part of chair up</td>
</tr>
<tr>
<td></td>
<td>Moves indicated part of chair down</td>
</tr>
</tbody>
</table>

Authorised Representative in the European Community

Fresenius Medical Care Deutschland GmbH
61346 Bad Homburg - Germany
Telephone: +49 6172 609-0